



4-8 SEPTEMBER
DAVOS, SWITZERLAND

**33rd Annual Conference of the
European Society for Biomaterials**

Organizers



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WELCOME MESSAGES

Welcome message from the conference chairs

Dear colleagues and friends,

On behalf of the Organizing Committee, we would like to cordially welcome you to the **33rd Annual Conference of the European Society of Biomaterials**, which takes place from September 4 to 8, 2023 in Davos, Switzerland. After the amazing conference we have had last year in Bordeaux, adding to the heritage of a long series of successful ESB meetings, we feel particularly honored to be your host.

As the leading European biomaterials meeting of the year, ESB2023's goal is to promote interactions and collaborations between researchers, educators, clinicians, and industry representatives who are interested in applying materials to medical therapies and diagnostics. At the time of writing the number of delegates is just below 1200, and chances are that this threshold will be reached with onsite registrations, making this one of the most well-attended ESB conferences ever. This wide participation of the Society is indicative of the strength of our community, and it promises a bright future for the ESB. The broad participation boosted our motivation to build a strong program, consisting of 1054 abstracts being presented in 75 sessions. The program is reflecting the most recent trends and advances of the field with a series of sessions covering a very wide range of topics including *biomaterial design, clinical translation, additive manufacturing and biofabrication, sustainable biomaterials, nanomaterials* and *in vitro models*, among others. The program includes 5 invited plenary talks, 4 plenary presentations by the ESB awardees, 61 keynote lectures, 2 translational symposia, 1 Biomaterials Science and Engineering Fellows debate, and 236 oral communications, 67 rapid fire poster communications and 690 posters. With these numbers, abstract evaluation has been a vast team effort, only possible with the support of the dedicated international scientific advisory board, which we wholeheartedly thank. Participants come from more than 55 countries, including 225 delegates from overseas, giving a global resonance to the ESB2023. Nevertheless, we hope the local touch will be noticeable, and we are particularly happy that **the Swiss Society for Biomaterials and Regenerative Medicine will hold its 28th annual meeting** together with the ESB2023, fostering the Swiss connections with the rest of Europe, which is especially important in this moment when the Swiss presence in the Horizon Europe is hindered by political obstacles. The **Young Scientist Forum** scientific activities and get-togethers shall also provide many opportunities to share science and network for junior scientists in an enthusiastic atmosphere.

We want to express our deep gratitude to our sponsors, exhibitors, and organizations supporting the ESB2023, and we encourage all participants to visit the industrial exhibition in which companies will inform you about their products and their new technologies for the development of innovative biomaterials. A special thanks to the local support team, who worked tirelessly to make this happen. Thirty years after the 10th ESB meeting, we are welcoming you back to Davos to share exciting scientific discoveries and to meet new and old friends in the beautiful nature of Davos.

On behalf of the organizing committee,



Matteo D' Este



David Eglin



Marcy Zenobi-Wong

Welcome Message by the ESB President

Ana Paula Pêgo

Dear colleagues and friends,

It is my pleasure to welcome you to ESB2023, the 33rd Annual Conference of the European Society for Biomaterials (ESB), scheduled to take place from the 4th to the 8th of September 2023 in the charming and green city of Davos - a place of superlatives!

This marks the ESB Annual Conference's 4th time being hosted in Switzerland and its 3rd occurrence in Davos. With great anticipation, we expect an ESB Conference to once again shatter attendance records. As I write this, we already have 1175 registered participants, an accomplishment attributed to the unwavering dedication of our hosts Matteo D'Este, David Eglin, and Marcy Zenobi-Wong. Their tireless efforts have resulted in an exceptional, high-level program that showcases the epitome of Swiss hospitality. I extend a heartfelt thank you to all sponsors, particularly the AO Research Institute of Davos, for their invaluable support of ESB2023.

Switzerland stands at the pinnacle of scientific innovation on both the European and global stages, boasting several prestigious universities, scientific academies, and a robust synergy between industry and research. Naturally, we can anticipate that Swiss innovation will permeate the very essence of our main event.

Seize the invaluable opportunities presented by the enlightening Plenary and ESB 2023 Awardees' sessions, as well as the meticulously organized keynote talks. The program is designed to amplify the voices of researchers, clinicians, entrepreneurs, and industry leaders within the field of biomaterials. Furthermore, this year you'll have the chance to engage with the editors of several top journals in our field.

In line with the esteemed tradition of ESB Conferences, our hosts have thoughtfully incorporated various informal networking opportunities during the social events, including a run/walk around the picturesque Lake Davos. This initiative makes ESB2023 stand out as one of the sporty ESB Conferences to date!

I encourage you to capitalize on this chance to connect with any of us on the ESB Council. It's an excellent opportunity to gain deeper insights into our Society, learn how to get involved, and discuss any suggestions you may have.

Together with the rest of the ESB Council, I look forward to meeting you at ESB2023. Let us join forces to ensure yet another highly successful event!

Kindest regards



Ana Paula Pêgo
ESB President

GENERAL INFORMATION

Conference venue

Congress Center Davos
Talstrasse 49A
7270 Davos Platz, Switzerland
Phone +41 81 414 62 02

Conference secretariat opening hours

Registration Monday 11:00 onwards

Monday 11:00-20:30
Tuesday 07:30-20:00
Wednesday 07:30-21:00
Thursday 07:30-19:30
Friday 07:30-14:00

Wireless network

The Wi-Fi network name is "Davos Congress". No password is needed.

Conference program

In case of unforeseen unavailability of the presenters, the program may change on a short notice. We recommend using the online version of the program available at this link: <https://virtual.oxfordabstracts.com/#/event/2511/program> (the URL will be available until August 2024). The program has two different search functions build in. Under "Search program" you can search only for what is present in the URL landing page (e.g., session name, time and day as well as keynote, plenary and awardee speaker). To find an abstract assigned to a specific session, you need to click on the session cell and access all the information. Alternatively, under "Search conference" in the top blue bar you can search for a specific abstract by author name or abstract title.

Registration onsite

Registration onsite is possible at the following rates.

Standard registration CHF 990,00
Student registration CHF 650,00
Participants with affiliation in counties with HDI < 0.850 CHF 530,00
Payments via credit card and cash (only Swiss Francs are accepted) are possible.

Time zone

In Switzerland at the time of the conference, the time zone is Central European Summer Time (UTC+02:00)

Presentation Facilities

The speaker ready room is located in House A in room "Dischma" between the registration desk and the conference rooms. All oral and poster presentations have a program code, which each presenter must retrieve from the author index in this document, in the conference program at this [link](#) or in the abstracts published in [ARI Abstracts](#). Speakers of all parallel sessions are requested to upload their presentation at least 4 hours before their talk, or on the day before their presentation for those presenting in the morning. Those presenting on Tuesday September 5th in the morning must upload their presentation before 9.30 h on that day.

Please bring a USB stick with your talk, so that it may be loaded onto the computer by our presentation support team. Mac users must be early to check their presentation is compatible with our PC based system. Please check all your videos run properly with our IT support team at the presenter help desk before your presentation.

Nobody will be allowed to present from their own laptop.

Duration of Talks

Plenary Lecture	45 minutes, 35 of presentation + 10 Q/A
Award Lecture	45 minutes
Keynote Lecture	30 minutes, 24 of presentation + 6 Q/A
Oral Presentation	15 minutes, 12 of presentation + 3 Q/A
Rapid Fire Presentation	2.5 minutes, no Q/A

For **oral presentations**, the following equipment will be available:

- Video/Data beam (1024x768), single or double beam projection of the same slide (depending upon the presentation room). Mouse to use as pointer for the double projection rooms (please use the mouse and do not use laser where there is double projection as this cannot be visible on both screens).
- Windows system (PC) with PowerPoint (Microsoft 365) - you only need to bring your talk on a USB stick in 16:9 format.
- Mac users must convert the talk into PC compatible Power-Point on a USB stick before the meeting and check it with our Presentation Support team.
- Fixed microphones in the aisles available for discussions. One must just stand at the microphone after the talk and wait for the chairperson to ask for your question.

We insist that speakers keep to their presentation times given and chairs will stop talks running overtime, designated discussion times will be included. Designated discussion times are for discussion, not for extra minutes of a talk. We encourage critical discussion of presentations, as would occur in a paper review.

Poster presentations

Each poster will be on display for half of the conference, either:

- Poster Session A - From the beginning of the conference until Wednesday September 6th at 12.00, or
- Poster Session B - From Wednesday September 6th at 16.15 until the end of the conference.

Posters must be prepared in A0 format (841 x 1189 mm) and portrait style.

For Poster Session A we recommend hanging up the poster immediately after you have registered at the conference center, while for Poster Session B right before the run around the lake. Each poster is assigned to a code corresponding to the page in the program and to the posterboard where the poster will be showed. The ESB2023 abstracts are hosted by [ARI Abstracts](https://www.ariabstracts.org/abstracts/2023/Collection3/ESB2023.html) where poster codes are visible.

<https://www.ariabstracts.org/abstracts/2023/Collection3/ESB2023.html>

Each poster code includes information on the poster session, category and progressive number as illustrated at [page 81](#).

Maps of the posterboards are available below in this booklet, and they will be available at the conference center. Helpers at the conference center will be available to help you find your posterboard.

Presenters must be at their posters during the official poster viewing time. Posters can also be visited during the coffee breaks or at any other time.

Posters must be removed by Wednesday September 6th at 12.00 (Poster Session A) or by Friday September 8th (Poster Session B). Posters which are not taken down by this time will be removed by the conference organizers and destroyed.

We highly recommend not overloading your poster with too much text and information. The average attendee will only spend a few seconds to understand if the topic is of interest and ask for further details if this is the case. Try to graphically represent the main ideas and findings of your work.

Rapid fire presentations

The duration of the rapid fire presentation is exactly 2.5 minutes (2'30"). Please note that a rapid fire presentation is meant to attract participants to your poster, and not to give a comprehensive overview of the project. We recommend avoiding information overload and to try to trigger the curiosity of the audience. Keeping to time is essential for rapid fire presentations and the session chairs will cut off presenters who exceed their designated time.

Intellectual property

Course materials and presentations are the intellectual property of the conference speakers. All rights are reserved.

Recording, photographing, or copying of lectures, or any course materials is strictly forbidden.



Use of mobile phones

Use of mobile phones is not allowed in the lecture halls and in other rooms during educational activities. Please be considerate of others by muting your mobile phone.

Conference App

Organize your meeting using the mobile version of Oxford Abstract program: <https://virtual.oxfordabstracts.com/#/event/2511/program> (the URL will be available until August 2024).

Name badge

Your name badge is your admission to the scientific sessions as well as to coffee and lunch breaks. If you have registered for the conference dinner, lunch box, Young Scientist Forum Night Out, etc., this is marked on your name badge.

Security

Security checks will be conducted at the entrance of the building. Wearing of a name tag is compulsory at the conference venue.

Lost and found

Lost and found items can be recovered at the registration desk.

Insurance

The organizers are not liable for damages and/or losses of any kind which may be incurred by the conference delegates or by any other individuals accompanying them, both during the official activities as well as going to/from the conference. Delegates are responsible for their own safety and belongings. Conference registration does not include health, accident, theft, or any other kind of insurance, which remains the responsibility of each participant.

Transport to/from Zurich Airport

There are hourly train connections from Davos Platz or Davos Dorf to Zurich Airport with a total train journey of 2 hours 40 minutes. There is a change of train at Landquart and Zurich Mainstation (Zürich Hauptbahnhof). Tickets can be purchased at the train station or online. www.sbb.ch/en

Web sbb.ch: <https://www.sbb.ch/en>

The schedule and more information about your journey to Davos by train you will find at <https://www.sbb.ch/en/timetable.html>

Parking

There is a big parking place at the Congress Center. Parking is possible during the day at your own cost.

Currency, money exchange

The Swiss Franc (CHF) is the official currency in Switzerland. There are several banks and cash dispensers in the town. Major international credit cards are accepted in most hotels, shops, and restaurants.

Smoking

Smoking is prohibited at the conference venue or in any other public indoor establishments such as restaurants, bars, etc.

Tipping

Service is included in Switzerland. Tips, however, are given to show appreciation of a good meal or special service.

Tourist Information

Destination Davos Klosters
Talstrasse 41, 7270 Davos Platz
www.davos.ch/en

Davos Klosters Inclusive

With the Davos Klosters Card, guests benefit from a whole range of free services and discounts. For more information, check: <https://www.davos.ch/en/information/guest-information/guest-card/premium-card>

Emergency calls

112 – International emergency call
117 – Police
118 – Fire station
144 – Emergency rescue service
1414 – Rega, air rescue

Pharmacy

There are several pharmacies in Davos. Ask the conference secretariat.

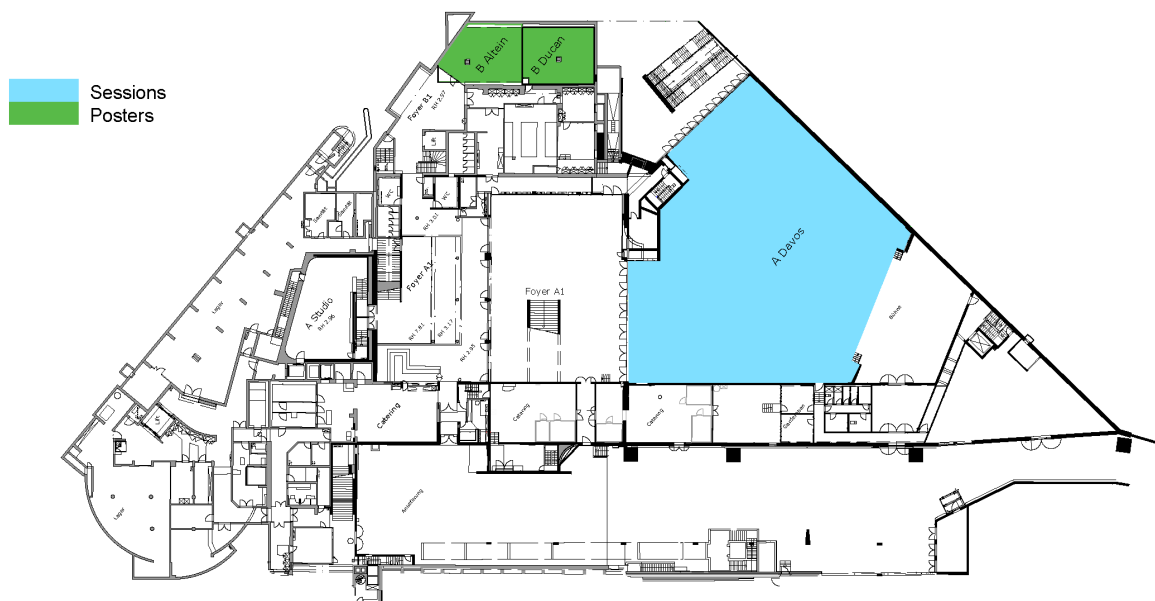
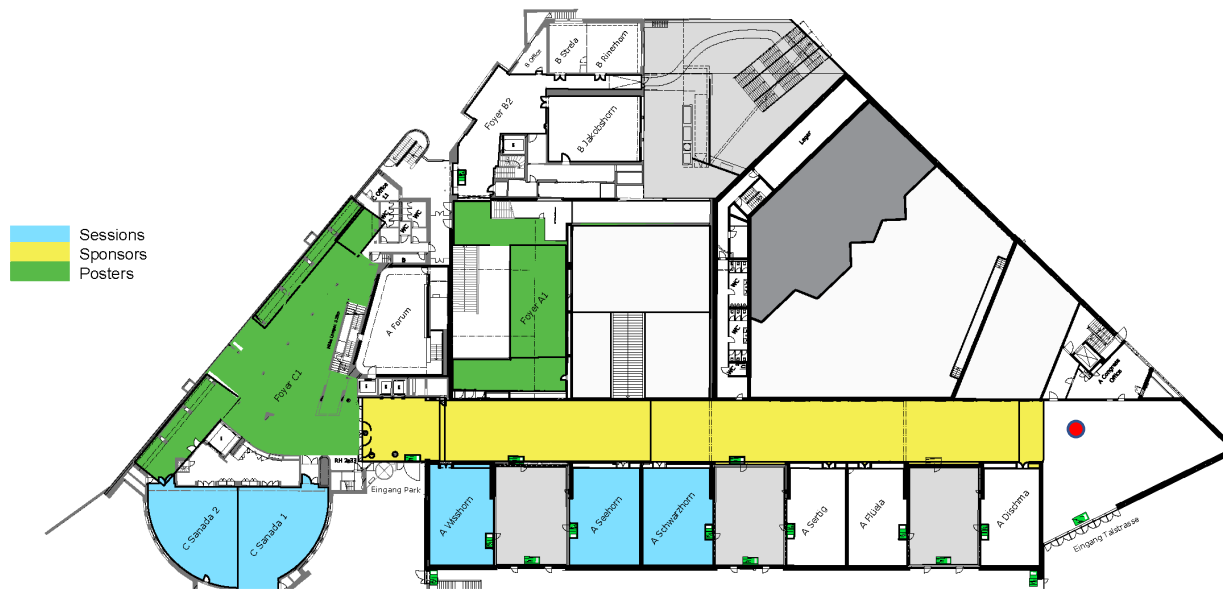
Medical services

Davos Hospital, Promenade 4, 7270 Davos Platz is located in Davos Platz.
Phone +41 81 414 88 8

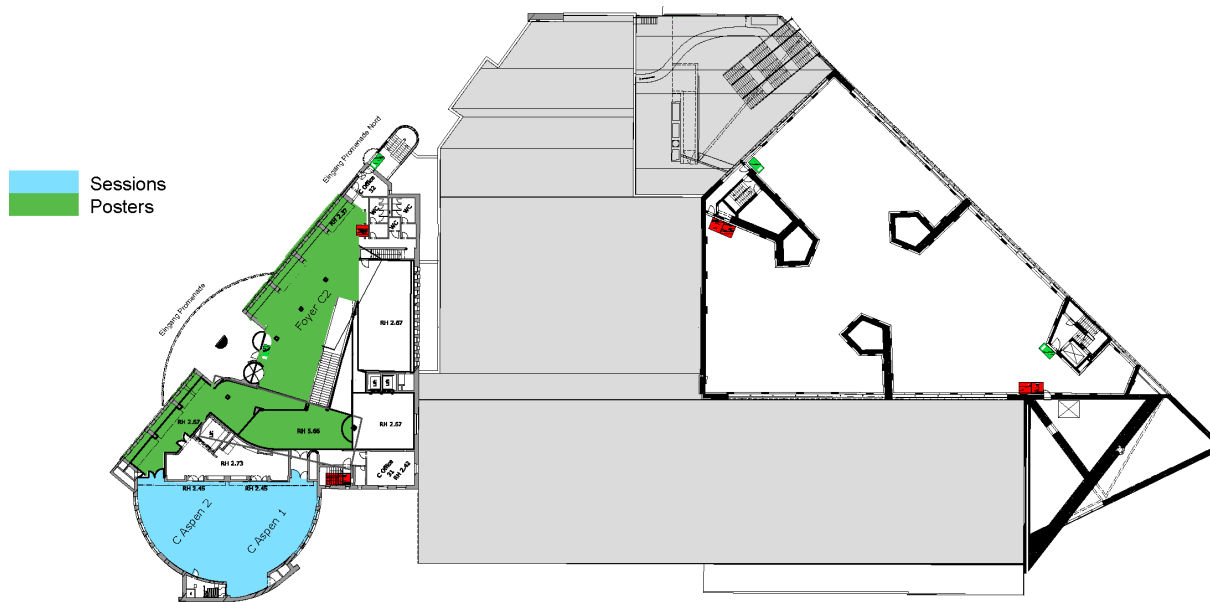
Congress Center Davos

Ground floor

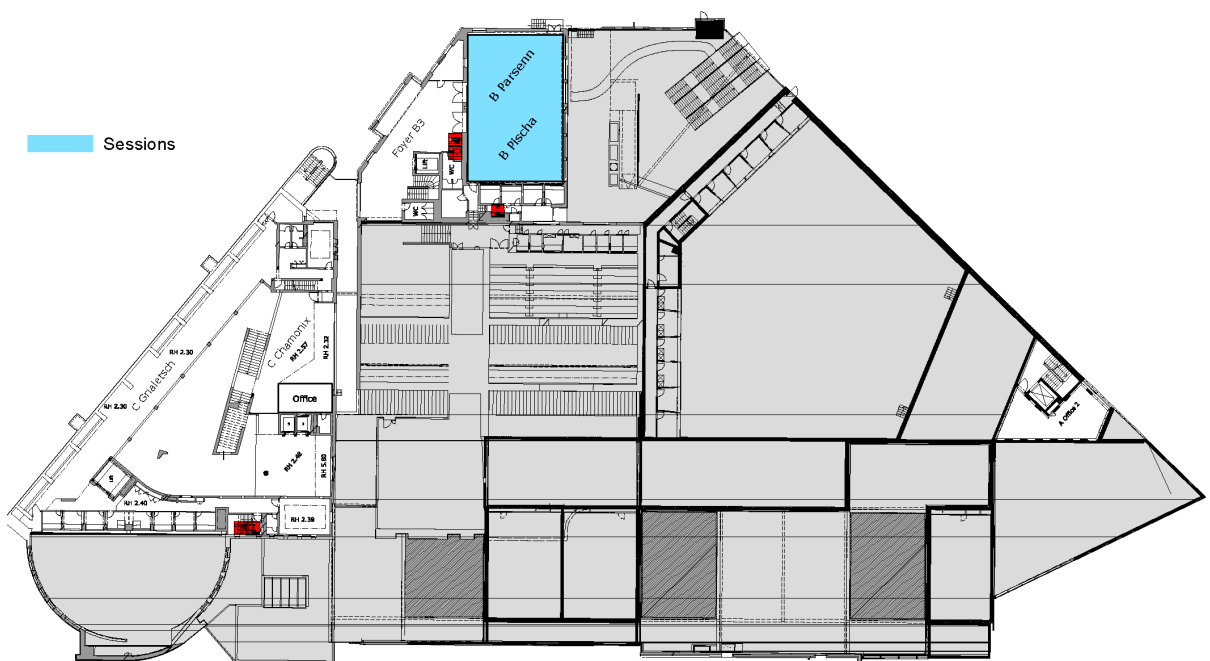
This is the level from which you access the conference center. The registration desk is marked by the red dot.



Upper Floor



Middle floor



Committees and Boards

Local support team



Isabella Badrutt



Claudia Barblan



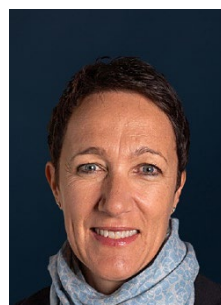
Ulrich Bentz



Simona Ciriello



Nunzia Di Luise



Carla Escher



Melanie Rösch



Sonia Wahl

Local organizing committee

Mauro Alini
Matteo D'Este
Sibylle Grad
Phelipe Hatt
Laura Mecchi
Gregor Miklosic
Fintan Moriarty

Geoff Richards
Tiziano Serra
Martin Stoddart
Daphne Van der Heide
Esther Wehrle
Jacek Wychowaniec

National organizing committee

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Martin Ehrbar
Lias Amanda Krattiger
Michael de Wild
Lucy Kind
Anna Marsano
Matteo Moretti
Mario Morgenstern

Benjamin Pippenger
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Queralt Vallmajo Martin
Marcy Zenoby-Wong

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Michael De Wild
David Eglin
Martin Ehrbar
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Lucy Kind
Catherine Le Visage
Katharina Maniura

Anna Marsano
Alvaro Mata
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Fintan Moriarty
Silvia Nürnberger
Abhay Pandit
Iva Pashkuleva
Mark Tibbitt
Sandra Van Vlierberghe
Marcy Zenobi-Wong

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Maria Chatzinikolaidou
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Matteo D'Este
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Huan Meng
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Antonella Motta
Adrien Moya
Diana Nascimento
Barbara Nebe
Estrela Neto
Judite Novais Barbosa
Silvia Nürnberger
Fergal O'Brien
Babatunde Okesola
Ana Oliveira
Miguel Oliveira
Raghavendra Palankar
Anders Palmquist
Elzbieta Pamula
Abhay Pandit
Ludovica Parisi
Iva Pashkuleva
Ana Paula Pego
Andreia Pereira
Ruben Pereira
Soledad Perez-Amodio
Cecilia Persson
Dalila Petta
Perpetua Pinto-do-Ó
Jens Pietzsch
Oommen Podiyan

Anna Puiggali-Jou
Akhilesh Rai
Manuela Raimondi
Murugan Ramalingam
Rotsiniaina Randriantsilefisoa
Ulrike Ritz
João Rodrigues
Luis Rodriguez Lorenzo
Daniel Rodriguez Rius
Anna Roig
Markus Rottmar
Fatemeh Safari
Christiane Salgado
Manuel Salmeron-Sanchez
Sofia Santos
Andrea Schwab
Amra Šećerović
Tiziano Serra
Ana Paula Serro
Heungsoo Shin
Antons Sizovs
Bruno Silva
Claudia Siverino
Jelle Sleeboom
Paula Soares
Alejandro Sosnik
Astrid Sourbier
Izabela Stancu
Martin Stoddart
Maria Cristina Tanzi
Hanna Tiainen
Mark Tibbitt
Riccardo Tognato
Helena Tomás
Queralt Vallmajó Martín
Daphne Van der Heide
Sandra Van Vlierberghe
Elena Varoni
Daniela Vasconcelos
Frédéric Velard
Diego Velasco
Andrea Vernengo
Federico Vozzi
Giovanni Vozzi
Kongchang Wei
Jacek Wychowaniec
Miguel Xavier
Marcy Zenobi-Wong
Dimitrios Zevgolís
Ole Zoffmann Andersen
Daniele Zuncheddu

SPEAKERS

Plenary Speakers

Jason Burdick



Jason Burdick is the Bowman Endowed Professor in the BioFrontiers Institute and Department of Chemical and Biological Engineering at the University of Colorado Boulder. After a postdoctoral fellowship at the Massachusetts Institute of Technology he began his own group at the University of Pennsylvania in 2005. After 16 years at Penn, Jason moved his group to the University of Colorado Boulder. The Burdick Biomaterials and Biofabrication Laboratory focuses on the design of new biomaterials that can be processed through fabrication methodologies to meet the needs of medicine, ranging from translational therapeutics to tissue models. Jason currently has over 310 peer-reviewed publications and 340 invited presentations, he is on the editorial boards of numerous journals including Biofabrication, Advanced Healthcare Materials, and International Journal of Bioprinting, and he has been recognized through numerous awards such as a Packard Fellowship in Science and Engineering, an American Heart Association Established Investigator Award, the Clemson Award for Basic Science through the Society for Biomaterials,

and the Acta Biomaterialia Silver Medal Award. Further, he has been elected as a Fellow of the American Institute for Medical and Biological Engineering and as a Fellow of the National Academy of Inventors and he has founded several companies to translate technology developed in his laboratory towards clinical application.

Jill Helms



Longevity: it's the ambition of kings, super villains- and pretty much all of us that enjoy waking up each morning. It's also become a focus for biotechnology companies interested in making a big impact on healthcare. In my lab at Stanford, we're working on understanding why we age, and then translating that new knowledge into therapeutic strategies that slow the natural process and accelerate tissue repair.

I am a Professor in the Department of Surgery and our research focuses on age-related changes in stem cell behavior. We've developed methods to re-activate a patient's own stem cells for therapeutic intervention in a broad range of conditions affecting the musculoskeletal system. I am co-founder of a venture-backed biopharmaceutical start-up in South San Francisco that is currently undertaking a Phase 1/2b FDA-regulated clinical trial in this area.

Conducting clinically relevant research is my main objective, but it goes hand-in-hand with another goal, to diversify the entrepreneurial pipeline to include more women and people of color. I believe that education and outreach are critical to this mission, and I use every avenue available to transform the way people think about translational science and regenerative medicine to emphasize its contribution to our daily lives.

Tatiana Segura



Tatiana Segura is a Professor of Biomedical Engineering, Neurology and Dermatology at Duke University. She received her B.S. degree in Bioengineering from the University of California, Berkeley (UC Berkeley) and her doctorate in Chemical Engineering from Northwestern University working with Lonnie Shea. Before jetting off to Jeffrey A. Hubbell's laboratory in 2004 to begin a postdoctoral position, she secured a tenure-track position at the University of California, Los Angeles (UCLA) in the Department of Chemical and Biomolecular Engineering. After finishing her postdoctoral work in 2006, she began at UCLA as an Assistant Professor. In 2012, she received tenure and a promotion to Associate Professor, and in 2016, she was promoted to the title of Professor. Two years later, she moved across country and joined the Duke BME faculty. Professor Segura has received numerous awards and distinctions during her career, including the 2020 Acta Biomaterialia Silver Medal, a CAREER Award from the National Science Foundation, an Outstanding Young Investigator Award from the American Society of Gene and Cell Therapy, and a National

Scientist Development Grant from the American Heart Association. She was also named a Fellow of the American Institute for Medical and Biological Engineers (AIMBE) in 2017. Professor Segura has published over 100 peer-reviewed papers and reviews and has over 8,000 citations.

André R. Studart



Born in Brasilia, Brazil, André R. Studart received his Bachelor degree in Materials Science and Engineering from the Federal University of São Carlos, Brazil. He carried out his PhD under the supervision of Prof. Victor C. Pandolfelli in the same university, investigating novel methods for processing of refractory castables and near-net-shape advanced ceramics. From 2002 until mid 2007 he worked and gave lectures at ETH Zurich as a member of Prof. Ludwig J. Gauckler's group. During this first period in Zurich, he studied the mechanical properties of dental materials and ceramics processed through colloidal routes. In 2007/2008 he was researcher at Harvard University in the group of Prof. David A. Weitz in the area of inorganic materials obtained using microfluidic techniques.

Since February 2009 he heads the Complex Materials group in the Department of Materials at ETH Zurich.

He was awarded by Alcoa Co., Thermo Haake Co., Brookfield Co, Magnesita and the Brazilian Ceramic Society. He is co-author of an undergraduate textbook on ceramic processing, holds three patents and

has published about 50 scientific papers in international peer-reviewed journals.

His main research interests are on bio-inspired complex materials with potential applications as medical implants, energy conversion systems and smart structures.

Amir Zadpoor



Amir Zadpoor is Antoni van Leeuwenhoek Professor, Chaired Professor of Biomaterials and Tissue Biomechanics, and founding director of the Additive Manufacturing Laboratory at Delft University of Technology (TU Delft). At Leiden University Medical Center, he holds another professorial chair in Department of Orthopedics. He is specialized in the development of advanced additive manufacturing techniques for the fabrication of metamaterials with unprecedented or rare mechanical, physical, or biological properties. Moreover, he is a world-recognized expert in origami- and kirigami-based (bio)materials, which are made by combining shape-shifting (e.g., self-folding) with additive manufacturing. Developing biomaterials-based approaches for the prevention and treatment of implant-associated infections is an integral of his research, where he uses physical forces and nano-scale features to both kill antibiotic-resistant bacteria and modulate the immune response. Prof. Zadpoor has received many awards including an ERC grant, a Vidi personal grant, a Veni personal grant, the Jean Leray scientific achievement award of the European Society of

Biomaterials, and the Early Career Award of the Journal of the Mechanical Behavior of Biomedical Materials. He has served on the editorial boards of international journals (e.g., Acta Biomaterialia), on the review panels of funding agencies, and as a member of award committees.

ESB2023 Awardees

Klaas De Groot Award – Joëlle Amédee



The Klaas de Groot award is a prestigious recognition by the European Society for Biomaterials of scientists who have shown a distinct ability to provide excellent mentorship and guidance to young researchers, helping them to establish their own independent career. We look for colleagues who have nurtured young talent, and who have selflessly invested in this talent, creating next generation biomaterials scientists in Europe. The award will be presented annually during the ESB conference.

Joëlle Amédee Vilamitjana, PhD in Cell and Molecular Biology, is Research Director at Inserm at the University of Bordeaux, France. From 2007 to 2015, she has managed the Inserm laboratory, Tissue Bioengineering (BIOTIS), a multidisciplinary team of researchers, engineers and clinicians focused on bone and vascular substitution. Joëlle Amédee Vilamitjana was inducted as an International Fellow in Biomaterials Science and Engineering by the International Union of Societies for Biomaterials Science and Engineering (IUSBSE). She has been elected as a Council Member of the European Society for Biomaterials and was Vice President of the ESB from 2015 to 2019. She is now the President of the French National Society for Biomaterials (BIOMAT).

Joëlle Amédee Vilamitjana has been involved in tissue engineering research since 1986 at the interface between stem cell biology and biomaterials. She started to work on osteoarthritis cartilage and then moved to bone tissue engineering from basic research to preclinical applications. Her specific interests are on human stem cell biology, research started in 1990s and their dialogue with other cell types involved in bone tissue repair. In the last two decades, the research of her group has been increasingly focused on the cell-to-cell communication between human mesenchymal stem cells and human endothelial cells and more recently with human sensory neurons isolated from induced Pluripotent stem cells. From this knowledge obtained on the molecular actors involved in this complex dialogue in two-dimensional (2D) models; her research group has been working on innovative 3D matrices designed for increasing vascularization and innervation for bone tissue regeneration, supported by relevant preclinical models, from small to large animals, for the proof of concept of these strategies.

George Winter Award – Marc Bohner



The George Winter award is established by the European Society for Biomaterials to recognize, encourage, and stimulate outstanding research contributions to the field of biomaterials. The nominee must have contributed significantly to the knowledge in the field of biomaterials through basic, experimental and/or clinical research. The award will be presented annually during the ESB conference.

Dr. Marc Bohner holds a MSc and PhD degree from the Swiss Federal Institute of Technology of Lausanne (1990, 1993). His career included positions as postdoctoral fellow at the University of Utah, and the Swiss Federal Institute of Technology of Zurich. In 1998, he joined RMS Foundation, a private research and testing lab located in Bettlach, Switzerland. Currently, he serves as a research director and leads the “Bioceramic & Biocompatibility Group”. His interests include the synthesis, production, and use of calcium phosphates for bone repair.

He holds over fifteen distinct patents, is the inventor of 4 commercial products, and has published and presented widely in his field (≈ 130 articles; $h = 50-60$). He has given 140 invited lectures in English, French, and German. His teaching positions have included adjunct and affiliated appointments at the University of Sherbrooke (2004 – 2019), the University of Berne (2011 – present), and ETH Zurich (2009 – present).

His services to the scientific community include: Editor of Acta Biomaterialia (2008 - present; IF = 10.6); Co-chair of the annual congress of the European Society for Biomaterials (2009); Secretary, vice-president and president of the Swiss Society for Biomaterials (2004 – 2012); Secretary and president of “GRIBOI” (2007 – 2016); Secretary and then treasurer of the European Society for Biomaterials (2013 – 2021); Member of the Research Council of the Swiss National Science Foundation (2016 – present). In 2013, he received a “honorary life membership” from the Swiss Society for Biomaterials. In 2014, he

was awarded the “Racquel LeGeros Award” of the “International Society for Ceramics in Medicine” for his contribution to calcium phosphate research. In 2016, he became “honorary president” of GRIBOI. According to the Stanford database (<https://dx.doi.org/10.17632/btchxktzyw>), Marc Bohner is among the top 50 scientists in Biomedical Engineering.

Jean Leray Award – Miguel Castilho



The Jean Leray award is established by the European Society for Biomaterials to recognize, encourage and stimulate outstanding research contributions to the field of biomaterials by early-career scientists. The nominee must have contributed significantly to the knowledge in the field of biomaterials through basic, experimental and/or clinical research. The award will be presented annually during the ESB conference.

Miguel Castilho is an Assistant Professor of Biomaterials Design and Processing at TU/e, in the Netherlands. His research is dedicated to designing and processing biomaterials for in situ functional restoration of damaged and diseased tissues, particularly mineralized tissues like bone. In 2015, he received a PhD in Biomedical Engineering (cum laude) from the University of Lisbon. From 2015 to 2018 he was a post-doctoral researcher at UMC Utrecht, where became an Assistant Professor in 2018. In 2021, he started a tenured position as an Assistant Professor in Biomedical Engineering at TU/e and also holds an adjunct appointment at UMC Utrecht. For his achievements in biomaterials design and 3D printing technologies development he has been awarded individual grants, international awards, and recognitions. He has also secured and been involved in various large consortium national and international research programs, including Eurostars grants, the EU-funded project BRAV3 and Health-Holland-TKI.

International Award – Antonios G. Mikos



The International Award is a prestigious recognition by the ESB of scientists who have generally spent their career outside Europe, who have been internationally recognised, have a high scientific profile, and have made major contributions to the field of biomaterials. Strong evidence of collaborations with members of our scientific community in Europe throughout their career is expected.

Antonios G. Mikos is the Louis Calder Professor of Bioengineering and Chemical and Biomolecular Engineering at Rice University. His research focuses on the synthesis, processing, and evaluation of new biomaterials for use as scaffolds for tissue engineering, as carriers for controlled drug delivery, as non-viral vectors for gene therapy, and as platforms for disease modeling. His work has led to the development of novel orthopaedic, dental, cardiovascular, neurologic, and ophthalmologic biomaterials. He is the author of over 700 publications and the inventor of 32 patents. Mikos is a Member of the National Academy of Engineering, the National Academy of Medicine, the National Academy of Inventors, the Chinese Academy of Engineering, the Academia Europaea, and the Academy of Athens. He has been recognized by various awards including the Jensen Tissue Engineering Award of the Tissue Engineering and Regenerative Medicine International Society-Global, the Lifetime Achievement Award of the Tissue Engineering and Regenerative Medicine International Society-Americas, the Founders Award of the Society For Biomaterials, the Founders Award of the Controlled Release Society, the Acta Biomaterialia Gold Medal, the Robert A. Pritzker Distinguished Lecturer Award of the Biomedical Engineering Society, and the Marshall R. Urist Award for Excellence in Tissue Regeneration Research of the Orthopaedic Research Society. He is a Founding Editor and Editor-in-Chief of the journal Tissue Engineering.

Keynote Speakers

Darrell Abernethy



Darrell Abernethy is head and chair of the Aberystwyth School of Veterinary Science, the first School of its kind in Wales and a joint initiative with the Royal Veterinary College, London. He qualified as a veterinarian from the University of Pretoria, South Africa, before moving to Northern Ireland where he researched animal diseases that impact human and animal health, particularly bovine tuberculosis and bovine brucellosis. He obtained his PhD in veterinary epidemiology from the Royal Veterinary College before returning to the University of Pretoria where he worked as head of department and dean. His diverse research interests, including avian health, rural poverty and zoonotic disease control, are linked by a passion for One Health and multidisciplinary approaches in research, policy and disease control programmes.

Morgan Alexander



Morgan Alexander is Professor of Biomedical Surfaces in the School of Pharmacy at the University of Nottingham.

His research into novel biomaterials involves developing materials for application in healthcare and characterising their relationships between surfaces and the biological response. Understanding these relationships is critical to the development of next generation biomaterials and it is the theme running through his work across a variety of areas spanning control of bacterial and fungal colonisation, immune cell control for implants, stem engineering cell response with applications in medical devices and cell manufacture.

He led a Wellcome Trust funded team that discovered a novel class of bacterial biofilm resistance polymers that are applied on a CE marked catheter that recently became available for a patient in the NHS:

<https://www.nottingham.ac.uk/research/groups/biomaterials-discovery/>.

Morgan received a Clarivate Highly Cited Award in 2021 and 2022

Nasim Annabi



Nasim Annabi is an Assistant Professor in the Department of Chemical and Biomolecular Engineering at University of California, Los Angeles (UCLA). Her multidisciplinary research program at UCLA aims to integrate novel chemistries with microscale technologies to develop the next generation of biomaterials for medical applications. In addition, her group has devised innovative strategies for the development of surgical sealants for the repair and sealing of elastic tissues. Her research has been recognized by several awards such as the 2020 NSEF Young Investigator Award of American Institute of Chemical Engineers (AIChE), the 2021 Young Investigator Award from the Society for Biomaterials (SFB), and the 2021 Biomaterials Science Lectureship Award from the Royal Society of Chemistry (RSC).

Eric A. Appel



Eric A. Appel is an Associate Professor of Materials Science & Engineering at Stanford University. He received his BS in Chemistry and MS in Polymer Science from California Polytechnic State University in San Luis Obispo, CA. Eric performed his MS thesis research with Dr Jim Hedrick and Dr Robert Miller on the synthesis of polymers for drug delivery applications at the IBM Almaden Research Center in San Jose, CA. He then obtained his PhD in Chemistry with Prof. Oren A. Scherman at the University of Cambridge. His PhD research focused on the preparation of dynamic and stimuli-responsive supramolecular polymeric materials. For his PhD work, Eric was the recipient of the Jon Weaver PhD prize from the Royal Society of Chemistry and a Graduate Student Award from the Materials Research Society. Upon graduating from Cambridge, he was awarded a National Research Service Award from the NIBIB and a Wellcome Trust Postdoctoral Fellowship to work with Prof. Robert Langer at MIT on the development of supramolecular

biomaterials for applications in tissue engineering and drug delivery. Eric's research at Stanford focuses on the development of biomimetic polymeric materials that can be used as tools to better understand fundamental biological processes and to engineer advanced healthcare solutions. His research has led to more than one hundred publications and 35 pending and granted patents. He has been awarded young faculty awards from the Hellman Foundation, American Diabetes Association, American Cancer Society, and PhRMA Foundation. Eric received the IUPAC Hanwha-TotalEnergies Young Polymer Scientist Award in 2022 and the Society for Biomaterials Young Investigator Award in 2023.

Andrea Banfi



Andrea Banfi directs the Regenerative Angiogenesis research group at the University Hospital of Basel, Switzerland. He previously worked in Genova (Italy) and Stanford (CA, USA). The goal of his group is to promote vascular growth for tissue repair, combining expertise on mesenchymal progenitor cell biology and vascular biology. His research aims at: 1) elucidating the basic mechanisms governing the growth of blood vessels under therapeutically relevant conditions, and 2) translating these concepts into rational regenerative medicine approaches, to restore blood flow in ischemia and to regenerate vascularized tissues, particularly bone. A core competence of the group is to provide controlled signaling microenvironments to progenitor cells through the engineering of factor decorated smart biomaterials.

Mário Barbosa



Mário Barbosa is Emeritus Full Professor at the Abel Salazar Institute of Biomedical Sciences (ICBAS), University of Porto, where he serves as Vice-President of the Strategic Council for One Health initiatives. He coordinates the Microenvironments for new Therapies research group at the Institute for Research and Innovation in Health (i3S) of the University of Porto. The group focus on the functional restoration of tissues through modulation of the inflammatory response, namely through the use of immunomodulatory biomaterials. He was one of the founders and the first director of the i3S (2015-2019), the largest health R&D institute in Portugal. Among several awards he received the George Winter Award (2001) and the Klaas de Groot Award (2020) of the ESB. He is the Secretary of the International Union of Societies for Biomaterials Science and Engineering (IUSBSE).

Maartje Bastings



Maartje Bastings is since 2017 appointed at EPFL Lausanne, Switzerland as tenure track assistant professor, heading the Programmable Biomaterials Laboratory (PBL), which is affiliated with both the Institute of Materials and the Interfaculty Bioengineering Institute. She performed her PhD research in the group of prof. dr. E.W. (Bert) Meijer, working on the understanding of multivalent binding mechanisms for directed targeting and the development of dynamic biomaterials for tissue engineering and successfully defended her thesis titled “Dynamic Reciprocity in Bio-Inspired Supramolecular Materials” in September 2012. Her thesis was awarded the University Academic Award (2013) for best university-wide PhD thesis. From 2012 to 2016, Maartje worked as a postdoctoral fellow at the Wyss Institute / Harvard University in Boston, USA, broadening her supramolecular self-assembly knowledge by crossing borders to the DNA and cell biology world. She now specializes in the design of DNA-based supramolecular materials that

integrate the concept of dynamic reciprocity, a two-way action-reaction process, between soft matter and cells. Over the last 10 years, prof. Bastings has emerged as a specialist in bridging supramolecular materials with cell biology, always taking an engineering approach with a focus on biophysical quantification of interactions.

Bikramjit Basu



Dr. Bikramjit Basu is a Professor at the Indian Institute of Science, Bangalore, India. He has been pursuing research at the confluence of Materials Science, Biological Science and Medicine. His research group has effectively applied the principles and tools of these disciplines to develop next generation implants and bioengineering solutions to address unmet clinical needs for musculoskeletal, dental, and neurosurgical applications; thereby impacting human healthcare. A Chartered Engineer of the UK, he is an elected Fellow of the Indian National Science Academy (2021), International Union of Societies for Biomaterials Science and Engineering (2020), Indian Academy of Sciences (2020), American Ceramic Society (2019), International Academy of Medical and Biological Engineering (2017), National Academy of Medical Sciences (2017), Indian National Academy of Engineering (2015), Society for Biomaterials & Artificial Organs (2014) and National Academy of Sciences, India (2013). He is a recipient of India’s most

prestigious Science and Technology award, Shanti Swarup Bhatnagar Prize (2013) from the Prime Minister of India; and globally competent awards, like Humboldt Research Award from the Alexander von Humboldt foundation (2022), and International Richard Brook Award from the European Ceramic Society (2022). He is currently the President (2021-24) of the Society for Biomaterials and Artificial Organs, India, which has more than 900 members across India and overseas and is also serving as the Chair of the Bioceramics Division of the American Ceramic Society.

Anna Beltzung



Anna Beltzung holds a PhD in chemical engineering with focus on material science from ETH Zurich, Switzerland. During this time, she developed CO₂-filters and tracers for microplastics based on polymer nanoparticles. In 2018, she joined Mario Stucki to co-found dimpora AG, a start up producing a new sustainable microporous functional membrane. Since then, she has been focusing on novel materials for the textile industry and works on many of the most pressing challenges in the performance field.

Gianluca Ciardelli



Gianluca Ciardelli graduated in Chemistry in 1994 at the University of Pisa (Italy) and obtained a PhD in Natural Sciences in 1997 at the ETH in Zurich (Switzerland). He is now Full Professor in Biomedical Engineering and coordinates the "Materials in Bionanotechnology and Biomedical Lab" group at the Dep. of Mechanical and Aerospace Engineering of Politecnico di Torino. He has over 20-years' experience in research in the field of Biomaterials for Tissue Engineering, Controlled Drug Delivery, Nanomedicine. The Scopus database reports over 180 articles in peer-reviewed journals, 8 book chapters; 14 patents are cited by espacenet. His h-index is 45 with more than 7900 citations (SCOPUS).

Gianni Ciofani



Gianni Ciofani is Senior Researcher Tenured at the Istituto Italiano di Tecnologia (Italian Institute of Technology, IIT), where he is Principal Investigator of the Smart Bio-Interfaces Research Line and Coordinator of the Center for Materials Interfaces (Pontedera, Italy).

His main research interests concern smart nanomaterials for nanomedicine, complex in vitro models, and biology in altered gravity conditions. He is coordinator or unit leader of several projects; in particular, he was awarded a European Research Council (ERC) Starting Grant and two ERC Proof-of-Concept Grant in 2016, 2018, and 2022, respectively. Thanks to grants from the Italian Space Agency (ASI) and the European Space Agency (ESA), he had the opportunity to carry out experiments onboard the International Space Station (ISS) in 2017, 2019, and 2022. In 2018, his real-scale model of the blood-brain barrier was highlighted in the Annual Report on the ERC Activities and Achievements.

Gianni Ciofani is author of about 170 papers on international journals, 3 edited books, and 16 book chapters, and delivered about 60 invited talks/lectures in international contexts. He serves as Reviewer for many funding agencies (including ERC, Swiss National Science Foundation, French National Research Agency, National Science Center of Poland), for about 200 international journals, and as Editorial Board Member of Bioactive Materials, International Journal of Nanomedicine, Journal of Physics: Materials, Nanomedicine UK, Nano Trends, and Scientific Reports; he is Specialty Chief Editor (Nanobiotechnology) for Frontiers in Bioengineering and Biotechnology.

Gianni Ciofani is co-founder (2022) and Scientific Advisor of "Kidaria Bioscience SRL", an IIT spin-off company dedicated to the preparation and characterization of cosmetic and nutraceutical products based on natural-derived active ingredients. He is also co-founder (2021) and member of the executive committee of "ERC in Italy APS", a non-profit association of ERC awardees born to promote fundamental and frontier research in Italy.

Rodrigo Coutinho De Almeida



Dr Rodrigo Coutinho de Almeida is currently working at Telespazio Belgium S.R.L for the European Space Agency (ESA) in the Life Sciences team of the SciSpacE program at ESA's Human and Robotic Exploration (HRE) Programmes Directorate. He obtained his PhD at the Department of Genetics, University of Groningen, working on genome-wide association studies (GWAS) and the non-coding genome. Afterwards, he received the Young Talent Grant Award from the Brazilian Ministry of Education to carry out his postdoctoral research on genomics of complex diseases. Later, he was a postdoc researcher at the Department of Biomedical Data Sciences, Leiden University Medical Center, to explore high dimensional omics datasets in cartilage, bone, and blood from osteoarthritis patients for further patient classification and biomarkers identification. Now, he works on the scientific coordination of SciSpacE research activities in Biology on all mission platforms, such as ground-based facilities, drop towers, parabolic

flights, sounding rockets, orbital robotics capsules, and the International Space Station (ISS). Currently, ESA is building a 3D Biosystem (3D incubator and 3D bioprinter) for use in Low-Earth Orbit.

John E Davies



Davies is Professor Emeritus of the University of Toronto (Institute of Biomedical Engineering, and Faculty of Dentistry). He trained as an anatomist and oral surgeon in the UK. His PhD, in solid-state and surface physics, was focused on understanding electron and ion transition events in calcium phosphates. In 1998 Davies was awarded a DSc by the University of London, for his sustained contributions over 20 years to the field of Biomaterials and is the recipient of the prestigious Clemson Award for Basic Research.

He has published over 200 hundred scientific papers and chapters, and edited 2 books, *The Bone-Biomaterial Interface* and *Bone Engineering* – both of which have been heralded as key reference works. He is best known internationally for his work in understanding bone healing around implanted devices.

He is also the founding President, and CEO, of Tissue Regeneration Therapeutics Inc (TRT), a Toronto-based mesenchymal stromal cell company. TRT extracts this population of cells from the perivascular tissue of the human umbilical cord to provide 3 platforms: native and engineered cells and cell lysates.

Laura De Laporte



Prof. Dr.-Ing. Laura De Laporte is an Associate Professor in Chemistry Department of the RWTH, Aachen, Germany since she finished her habilitation in the same institute in 2017. Since 2020 she has an additional affiliation to the University Hospital in Aachen. In 2018, she was one of five excellent female researchers who have received funding from the Leibniz Programme for female Professors. She received her PhD with Prof. Lonnie Shea at Northwestern University (Evanston, US) and engineered guiding implants for nerve regeneration. At EPFL (Lausanne, Switzerland), she learned about regenerative hydrogels in Prof. Jeffrey Hubbell's group during her post-doctoral research. From 2013 to 2018, Laura De Laporte led a junior group at the DWI – Leibniz Institute and was awarded a Starting Grant from the European Research Council in 2015. Laura De Laporte develops biohybrid and bioinspired materials for advanced medical applications, for example to replicate the complex structure of natural tissues. To achieve this,

she is working on new synthetic material concepts and new methods of manufacture, combining engineering, chemistry and biology to design biomaterials that control and direct the interaction with cells.

Elisabeth Engel



Elisabeth Engel is Full Professor of Materials Science and Engineering at the Technical University of Catalonia (UPC). Prior to this she received her PhD in Medicine from Autonomous University of Barcelona (UAB). She started her group 'Biomaterials for Regenerative Therapies' at the Institute for Bioengineering of Catalonia (IBEC) in 2012. Her research is focused on the design and development of biomaterials that modify the tissue microenvironment eliciting a pro-regenerative response.

The research conducted in the last 10 years bring together basic research and a strong effort in transference and translation. The combination of the materials and controlled manufacturing processes has allowed the development of new customized biodegradable systems for different clinical applications such as ophthalmology, nervous system, skin, tendon, bone and cardiac tissue.

Matthias Epple



Matthias Epple is Professor of Inorganic Chemistry at the University of Duisburg-Essen (Germany). He obtained his PhD in 1992 at the Technical University of Braunschweig. After postdoctoral studies at the University of Washington (Seattle, USA) and the Royal Institution (London, UK), he went to the University of Hamburg where he obtained his Habilitation in 1997. He was Professor at the Universities of Augsburg and Bochum before moving to the University of Essen. His research interests comprise the synthesis and biomedical application of inorganic nanoparticles, namely calcium phosphate and noble metals, for gene and drug delivery. Such nanoparticles can be applied to manipulate cells, e.g., to stimulate bone growth, to induce an immune response (vaccination), or to downregulate inflammatory proteins. Matthias Epple is a past President of the German Society for Biomaterials and has published more than 540 papers in international journals.

Lino Ferreira



Lino Ferreira is Coordinator Researcher at Faculty of Medicine, University of Coimbra, Portugal and vice-director of Associate Laboratory CIBB, the largest biomedical research lab in the center region of Portugal. His research is focus on the development of bioengineering tools to promote regeneration and reset ageing in the cardiovascular system. To achieve this goal his lab uses advanced biomaterials and cell/tissue models derived from iPSCs. He holds a Ph.D. in Biotechnology from the University of Coimbra (Portugal). He did postdoctoral work at INEB (Portugal) and MIT (USA) in the group of Robert Langer in the areas of stem cells and nanotechnologies. He established his research group in 2008 at the University of Coimbra. Since then, he is the director of the Biomaterials and Stem Cell-Based Therapeutics research group, CNC coordinator of the MIT-Portugal Program and the founder of the biotech company Matera. He is also the associate editor of Biomaterials Science Journal (RSC). In 2012, he was awarded with

a prestigious European Research Council starting grant and in 2016 a prestigious ERA Chair position at the University of Coimbra.

Una FitzGerald



Dr Una FitzGerald holds a BE (Ind Eng) and MSc in Biotechnology at NUI Galway, Ireland, after this she worked in the pharmaceutical sector for five years in France and the UK, before embarking on a PhD in Molecular Biology at the University of Strathclyde, Glasgow. Following a brief spell in cancer research, on joining Prof. Sue Barnett's lab in Glasgow Uni. she discovered her true passion – neuroscience and in particular, research on brain disorders including multiple sclerosis and Parkinson's disease. Since returning to the University in Galway, Ireland, Dr FitzGerald has built a track record in MS research, is a funded investigator in CÚRAM, the Centre for Research on Medical Devices, and is Director of the Galway Neuroscience Centre. She is the lead PI and Coordinator of a €3.9M EU-funded Innovative Training Network which is training 15 PhD students across Europe, with the aim of developing a novel device for treating the progressive phase of MS. In the last year she led the CÚRAM lab to be the first in Europe to gain Green

Lab Certification from My Green Lab and she now chairs a national working group on sustainable public sector labs. Dr FitzGerald's talk will discuss the topic of sustainable labs.

Julien Gautrot



Julien Gautrot is Professor in Biomaterials and Biointerfaces in the School of Engineering and Materials Science at Queen Mary, University of London. After a PhD at Manchester University and postdoctoral research, first at the Universite de Montreal, then at the University of Cambridge, he joined QMUL as a lecturer in 2011. His research focuses on the development of biointerfaces and microengineered biomaterials for stem cell technologies and the design of advanced cell culture platforms and their application in regenerative medicine. In particular, his group has been exploring cross-talks between the physico-chemistry and biochemistry of soft biointerfaces (polymer brushes, hydrogels and protein assemblies) and the mechanical properties and microstructure of the cell microenvironment on the regulation of cell adhesion and associated phenotypes.

Warren Grayson



Dr. Warren Grayson is a Professor in the Department of Biomedical Engineering at Johns Hopkins University. Prior to this, he obtained a PhD at Florida State University and completed his post-doctoral training at Columbia University. He is a pioneer in the field of 3D-printing porous, biodegradable scaffolds, and bioreactor design for personalized, craniofacial bone regeneration. His work received coverage in the New York Times, BBC, and Science Translational Medicine, and has spawned a start-up company. Grayson received the Maryland Academy of Sciences Outstanding Young Engineer award, the Career Development Award from the Orthopaedic Research Society, the Career Enhancement Award from the American Society for Bone and Mineral Research, the Young Investigator Award from the Tissue Engineering and Regenerative Medicine International Society, and the prestigious Early Faculty CAREER Award from the National Science Foundation. He was elected as a fellow of the American Institute for Medical and Biomedical Engineering and recognized by the National Academy of Medicine as an Emerging Leader in Health and Medicine. In 2021 he was named a Daniel Nathans Scientific Innovator by the Johns Hopkins School of Medicine.

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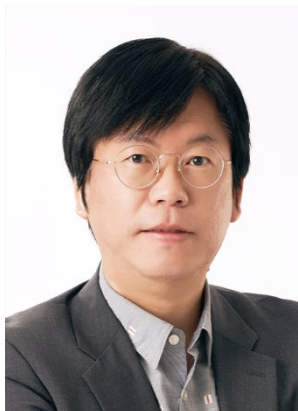
Roland Kröger



Roland Kröger graduated in Physics at the University of Hamburg/Germany in 1993 and obtained a PhD on Chemical Vapour Deposition of Diamond Thin Films in 1997 at the Fraunhofer Institute for Thin Films and Surface Technology in Braunschweig/Germany to continue in 1998 as postdoctoral fellow at the Technion - Israel Institute of Technology in Haifa/Israel working on Chemical Vapour Deposited Copper Interconnects supported by a Minerva Stipend. In 2001 he started as research fellow at the University of Bremen/Germany focusing on Electron Microscopy Studies of III-V and II-VI Semiconductors and developed an interest in Biomineralization. In 2007, he stayed for a year at the University of Illinois at Urbana-Champaign as Max-Kade Visiting Professor and was appointed Assistant Professor in Physics at the University of York/United Kingdom in 2008 being promoted to Chair in Physics in 2019. Prof. Kröger is Fellow of the Royal Microscopical Society (RMS) and has published more than 120 peer-reviewed papers. His current research focuses on Nano- and Biomaterials, in particular metal-based nanoparticles for biomedical applications and carbonate and phosphate biominerals such as corals, seashells, dental materials and bone using a range of characterisation techniques such as electron microscopy, Raman spectroscopy and synchrotron radiation-based methods both ex situ and in situ.

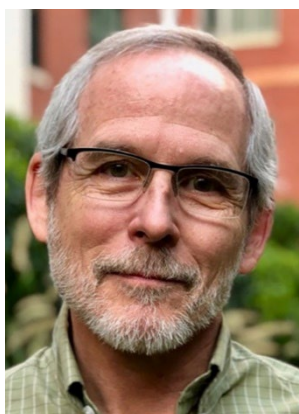
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Sei Kwang Hahn



Sei Kwang Hahn is the SeokCheon Chair Professor in the Department of Materials Science and Engineering at POSTECH. He obtained his B.S. (1991), M.S. (1993) and Ph.D. (1996) at KAIST. He did his post-doctoral research with Prof. Allan Hoffman at the University of Washington for 2001-2002. After that, he worked at the Hoffman-La Roche group, Chugai Pharmaceutical Co. in Japan for 2002-2005. Since 2005, he has worked as a professor at POSTECH. He was a visiting professor at Harvard Medical School for 2012-2013 and at Stanford University for 2019-2020. He won the prestigious Song-Gok Science and Technology Award in 2022, the Controlled Release Society Award in 2018, the Minister of Health and Welfare Award in 2017, and the Korean President Award in 2015. He was the Samsung Future Technology Committee, the Presidential Advisory Council on Science and Technology, and is the National Academy of Engineering Korea. He has worked as the editorial board member of ACS Biomaterials Science and Engineering, ACS Applied Bio Materials, Biomacromolecules, the associate editor of Biomaterials Research, and the Guest Editor of APL Materials and Advanced Drug Delivery Reviews.

Roger Kamm



Roger Kamm is the Green Distinguished Professor of Biological and Mechanical Engineering at MIT, where he has served on the faculty since 1978. His research activities lie at the interface of biology and mechanics, formerly in cell and molecular mechanics, and now in engineered living systems. Current interests are in developing models of healthy and diseased organ function using microfluidic technologies, with a focus on vascularization in the context of metastatic cancer and neurological diseases. He is a fellow of the National Academy of Medicine and the National Academy of Engineering. Kamm is co-founder of two companies, Cardiovascular Technologies and AIM Biotech, a manufacturer of microfluidic systems for 3D culture.

Marleen Kamperman



Marleen Kamperman is a Professor of Polymer Science at the University of Groningen (UG). Her focus is interested in the biologically inspired synthesis of polymers and nanostructured surfaces with controlled adhesive and mechanical properties. Prior to this She received her PhD in Materials Science & Engineering from Cornell University, Ithaca, NY, where she worked in the group of Prof. Wiesner on the development of ordered mesoporous high-temperature ceramics using block copolymers. From 2008 to 2010, she was a postdoctoral researcher in the Functional Surfaces group of Prof. Arzt at INM – Leibniz Institute for New Materials in Saarbrücken, Germany, where she worked on the development of bio-inspired responsive adhesive systems. She started her group 'Bioinspired Functional Polymers' at Wageningen University in the Physical Chemistry and Soft Matter department in September 2010. In 2018 she was appointed Full Professor in Polymer Science at the University of Groningen. In the new research group that she established in Groningen she combines her experience in polymer science and material development with the fundamentals of coacervation and bio-inspiration. In 2019, Kamperman was awarded an ERC Consolidator Grant. She wants to use this to develop new materials through environmentally-friendly processes.

Daniel Kelly



Dr. Daniel Kelly is Professor of Tissue Engineering in Trinity College Dublin and Director of the Trinity Centre for Bioengineering (TCBE). He is also one of the founding Principal Investigators of the Advanced Materials and Bioengineering Research (AMBER) centre based in Trinity College Dublin. Kelly is a recipient of the Science Foundation Ireland President of Ireland Young Researcher Award, a Fulbright Visiting Scholar grant (at the Department of Biomedical Engineering in Columbia University, New York) and four ERC awards. His research focuses on developing novel approaches to regenerating damaged and diseased musculoskeletal tissues. He investigates how the physical and chemical properties of a biomaterial, as well as the therapeutic factors it delivers, determines the host response to such an implant. The aim is to develop the next generation of implants targeting specific clinical problems in orthopaedic and cardiovascular medicine. To date he has published over 130 articles in peer-

reviewed journals.

Kris Kilian



Scientia Associate Professor Kris Kilian received B.S. and M.S. degrees in Chemistry from the University of Washington in 1999 and 2003 respectively, and his PhD in Chemistry at the University of New South Wales in 2007. Kris was a NIH postdoctoral fellow at the University of Chicago (2008-2010), Assistant Professor (2011-2017) and Associate Professor (2017-2018) at the University of Illinois at Urbana-Champaign before joining UNSW Sydney in 2018. Kris is a recipient of the Cornforth Medal from the Royal Australian Chemical Institute (2008), the NIH Ruth L. Kirchstein National Research Service Award (2008), the National Science Foundation's CAREER award (2015), a Young Innovator of Cellular and Molecular Bioengineering (2017), the Australian Research Council Future Fellowship (2018), and the Deans award for Excellence in Research (2020). His research interests include the design and development of model extracellular matrices and dynamic hydrogels for cell and tissue engineering.

Jeroen Leijten



Prof. Jeroen Leijten is appointed at University Twente as an independent tenure tracker since 2016. He performed his PhD research in the department of prof.dr. Clemens van Blitterswijk, after which he performed postdoctoral research at KU Leuven and Brigham's Women Hospital / Harvard-MIT. His interdisciplinary research group focuses on the development of nano- and microscale tools using enabling microfluidic technologies to drive the scalable production of multiscale and hierarchically organized bioengineered constructs for biomedical applications and tissue engineering in particular. For his work he received the Jean Leray Award of ESB, and the Robert Brown Award of TERMIS. He was awarded with a Starting Grant of the European Research Council as well as the prestigious Veni and Vidi grants of the Dutch Research Council and is (leading) partner in various large (inter)national consortia including multiple Perspectief, NWO-XL, and EIC Pathfinder grants.

Riccardo Levato



Riccardo Levato is Associate Professor of Translational Bioengineering and Biomaterials at the Department of Clinical Sciences (Faculty of Veterinary Medicine, Utrecht University), and at the Department of Orthopaedics of the University Medical Center Utrecht.

He is also Principal Investigator at the Regenerative Medicine Center Utrecht. With his group (<https://www.levatolab.eu/team>) he focuses on the development of novel biofabrication technologies and biomaterials-based strategies to generate functional engineered tissues, with applications in musculoskeletal and soft tissues (pancreas, liver). Prior to moving to Utrecht, he worked in several research groups across Europe: 3Bs, University of Minho (Portugal); BioMatLab, Technical University of Milan (Italy), Institute for Bioengineering of Catalonia (IBEC, Spain), and he holds a cum laude PhD in Biomedical Engineering from IBEC and from the Technical University of Catalonia. He has been awarded a Starting grant from the European

Research Council and a Vidi grant from the Dutch Research Council on the development of a novel volumetric bioprinting technologies for organoid research. Since 2021, he is coordinator of a European consortium (ENLIGHT, European Innovation Council pilot), aiming at developing bioprinted pancreas as model to study treatments for diabetes. To date, he published more than 67 peer-reviewed articles international journals, and he was conferred several awards including the 2016 Wake Forest Institute for Regenerative Medicine Young Investigator Award, the 2021 Jean Leray award from the European Society for Biomaterials, and the 2022 Robert Brown award from the Tissue Engineering and Regenerative Medicine International Society.

Michael Levin



Michael Levin, a Distinguished Professor in the Biology department at Tufts since 2008, holds the Vannevar Bush endowed Chair and serves as director of the Allen Discovery Center at Tufts and the Tufts Center for Regenerative and Developmental Biology. Recent honors include the Scientist of Vision award and the Distinguished Scholar Award. Prior to college, Michael Levin worked as a software engineer and independent contractor in the field of scientific computing. He attended Tufts University, interested in artificial intelligence and unconventional computation. To explore the algorithms by which the biological world implemented complex adaptive behavior, he got dual B.S. degrees, in Computer Science and in Biology and then received a PhD from Harvard University. He did post-doctoral training at Harvard Medical School (1996-2000) and started his independent laboratory (2000-2007 at Forsyth Institute, Harvard; 2008-present at Tufts University). At the Wyss Institute, he collaborates with Donald Ingber and James Collins on a

program focused on development of a highly multiplexed, microfluidic, *Xenopus* embryo culture system that will enable discovery of new drug targets and development of therapeutics when combined with multi-omics and an integrated bioinformatics pipeline. The team's initial focus is on development of therapeutics that enhance host tolerance to infections, as part of a DARPA-funded THoR research program.

Claudia Loebel



Claudia Loebel, M.D./Ph.D. is an Assistant Professor of Materials Science & Engineering, and Biological Sciences Scholar at the University of Michigan (US). Where she is currently focusing on developing engineered lung alveolar organoids, aiming to build models of acute and chronic pulmonary diseases and for personalized medicine. Loebel obtained her M.D. from Martin Luther University Halle-Wittenberg (Germany) in 2011. In 2016 she obtained her Ph.D. from ETH Zurich (Switzerland), under supervision of Professors Marcy Zenobi-Wong (ETH Zurich) and David Eglin (AO Research Institute Davos). Her postdoctoral research was conducted in the Polymeric Biomaterials Laboratory of Professor Jason Burdick, at University of Pennsylvania, where she was also a Visiting Research Scholar in Professor Robert Mauck's McKay Orthopaedic Research Laboratory. Loebel was awarded the Pathway to Independence Award (K99/R00) through the National Heart, Lung, and Blood Institute at NIH for her work on synthetic

lung tissue models to probe mechanisms of alveolar epithelial cell dysfunction.

Aline Lueckgen



Aline Lueckgen is a senior editor on the biotechnology team at Nature Communications where she handles manuscripts on the topics of tissue engineering, regenerative medicine, drug delivery and biomedical devices. After obtaining her Bachelor's degree in bioengineering at Rice University in the USA, followed by a Master's degree in the same field at the EPFL in Switzerland, she completed her PhD at the Technical University in Berlin. In her doctoral work, she investigated the degradation behavior of alginate-based hydrogels for applications in bone regeneration. She looks forward to connecting with the ESB community in Davos.

João F. Mano



João F. Mano is a Full Professor at the Chemistry Department of University of Aveiro, Portugal, and vice-director of the Associate Laboratory CICECO – Aveiro Instituto of Materials, where he is directing the COMPASS Research Group. His research interests include the use of advanced biomaterials and cells towards the progress of multidisciplinary concepts to be employed in regenerative and personalised medicine. In particular, he has been applying biomimetic and nano/micro-technology approaches to polymer-based biomaterials and surfaces in order to develop biomedical devices with improved structural and (multi-)functional properties, or in the engineering of microenvironments to control cell behaviour and organization, to be exploited clinically in advanced therapies or in drug screening. He is the Editor-in-Chief of *Materials Today Bio* (Elsevier). He has been coordinating or involved in many national and European research projects, including 2 Advanced Grants and 3 Proof-of-Concept Grants from the European

Research Council. João F. Mano has received different honours and awards, including two honoris causa doctorates (Univ. of Lorraine and Univ. Utrecht) and was elected fellow of the European Academy of Sciences (FEurASc), Biomaterials Science & Engineering (FBSE) and American Institute of Medical and Biological Engineering (FAIMBE). He was the recipient of the 2020 George Winter Award given by the European Society for Biomaterials.

Silvia Marchesan



Prof. Silvia Marchesan did her M. Sci. in Medicinal Chemistry at the University of Trieste (Italy) in 2004 supervised by Prof. T. Da Ros and Prof. M. Prato on C60 functionalization. Her PhD in chemistry at The University of Edinburgh (2008, UK) focused on glycoprotein bio-orthogonal modification. As an Academy of Finland postdoc Fellow, she studied integrins' pathways involved in cell adhesion at the University of Helsinki (2008-2010). Then, she took a CRSS Fellowship jointly between Australia's national science agency (CSIRO) and Monash University supervised by Prof. J. S. Forsythe to develop nanomaterials for regenerative medicine (2010-2012). In 2013 she moved to the Center of Excellence for Nanostructured Materials at the University of Trieste (Italy) to develop nanocarbon-based composites and hybrids supervised by Prof. M. Prato. There she opened the Superstructures Lab in 2015 thanks to a starting grant. In 2018, she became associate professor, got habilitated as full professor, and was selected by Nature Index

as Rising Star in the natural sciences worldwide. In 2021-2022 (6 months) she has been Visiting Professor at the University of Cambridge (UK) and received the RSC Soft Matter Lectureship (2021).

Michael Monaghan



Michael Monaghan is Associate Professor in Biomedical Engineering at Trinity College Dublin, Ireland. His group's primary research areas are in electroconductive biomaterials, cardiac tissue regeneration, and real-time imaging of extracellular matrix components and metabolism in differentiation and disease. He leads a number of interdisciplinary projects between other academic groups and industry ranging from immunometabolism, evaluation of fibrosis, and induced pluripotent stem cell derivitisation of cardiac organoids. His expertise and knowledge of FLIM microscopy has been recognised through publication of studies in internationally renowned journals, and awarding of a Horizon Europe MSCA-doctoral network worth based on FLIM excellence where he is the lead coordinator. Most recently, he is the 2023 recipient of the TERMIS Robert Brown Early Career Investigator Award.

Lorenzo Moroni



Prof. Dr. Lorenzo Moroni received his Ph.D. cum laude in 2006 at University of Twente on 3D scaffolds for osteochondral regeneration, for which he was awarded the European doctorate award in Biomaterials and Tissue Engineering from the European Society of Biomaterials (ESB).

Since 2014 he works at Maastricht University, where he is a founding member of the MERLN Institute for Technology-Inspired Regenerative Medicine. In 2016, he became full professor in biofabrication for regenerative medicine. Since 2019, he is chair of the Complex Tissue Regeneration department. He was vice-director of MERLN from 2019 till 2022. Since 2022, he is director of MERLN.

In 2014, he received the Jean Leray award from the ESB and an ERC starting grant. In 2016, he also received the Robert Brown Award from TERMIS. In 2017, he was elected as faculty of the Young Academy of Europe and in the top 100 Italian scientists within 40 worldwide by the

European Institute of Italian Culture.

His research group interests aim at developing biofabrication technologies to generate libraries of 3D scaffolds able to control cell fate, with applications spanning from skeletal to vascular, neural, and organ regeneration. From his research efforts, 3 products have already reached the market.

Antonella Motta



Antonella Motta is Full Professor of Bioengineering at Department of Industrial Engineering, and Chair of BIOTech Research Center, University of Trento, Italy. Recently awarded as Fellow of TERMIS. The research topics where she gave contributions include biopolymer-based scaffold design for regenerative medicine applications, selection of new organism sources, biopolymers isolation process, in vitro and in vivo biocompatibility evaluations, design of (bio)ink for scaffold fabrication and 3D in vitro models for personalized medicine; in particular, about 30 years' experience on silk-based matrices for application in tissue engineering such as bone, cartilage, brain, etc. Invited Speaker at several International and National Conferences and Schools. Referee of International Journals in the field of Bioengineering and for international agencies panel for projects evaluations; Coordinator of European projects; Co-Editor-in-Chief of Journal of Biomaterials Science, Polymer Edition.

Kamal Mustafa



Prof. Kamal Mustafa is the leader of Center of Translational Oral Research (TOR) and The Tissue Engineering Group at University of Bergen, Norway. His research group aims to address the shortage of tissues available for repair and regeneration (<http://www.tissueengineering.no>). The scope of the work includes aspects of pre-clinical and clinical biomedical research. He has published more than 200 scientific reports and received several awards. Prof. Mustafa's main research activities have been incorporated in the large collaborative EU projects financed by the FP7 and H2020 and several projects financed by national funding agencies. He is currently leading and sponsoring a European multicenter clinical trial to reconstruct alveolar bone using stem cells and biomaterials, which is among few trials in Europe using advanced cell therapy.

Aleksandr Ovsianikov



Prof. Ovsianikov is a head of the research group 3D Printing and Biofabrication at the TU Wien (Vienna, Austria). He is a member of the Austrian Cluster for Tissue Regeneration (<http://www.tissue-regeneration.at>) and the board of directors of the international society of biofabrication (<https://biofabricationsociety.org>). A particular focus of his current research is the development of high-resolution 3D printing technologies and materials for engineering of biomimetic 3D cell culture matrices, realization of novel tissue engineering scaffolds, bioprinting and microfluidic applications (<https://www.tuwien.at/en/mwbw/wwwt/pv/3dpcb>). Dr. Ovsianikov was awarded prestigious ERC Starting Grant in 2012 and an ERC Consolidator Grant in 2017 for projects aimed at these topics. He is also a co-founder and Chief Scientific Officer (CSO) of a TU Wien spin-off UpNano (<https://www.upnano.at>), aimed a commercialization of high-resolution 3D printing and Bioprinting, which received multiple awards, including the

Austrian Startup of the year 2019.

Raghavendra Palankar



Raghavendra Palankar is an Associate Editor at Nature Nanotechnology. He is a Biochemical Engineer with a background in material sciences and technologies for single-molecule and single-cell manipulation with multidisciplinary training in basic and translational research.

Within the editorial team of Nature Nanotechnology, he handles a broad cross-section of manuscripts covering nanosensing, nano/micro-robotics, 3D/4D printing, bioelectronics, drug delivery platforms, DNA nanotechnology, synthetic biology that span all areas from nano to macroscales.

He is excited to be part of ESB2023 in Davos, and looking forward to meeting and connecting with the community.

Elżbieta Pamuła



Prof. Elżbieta Pamuła is a full professor in biomaterials science and biomedical engineering at the AGH University of Science and Technology in Kraków, Poland. Currently, she serves as a Vice-Dean for Science at the Faculty of Materials Science and Ceramics and a President of the Polish Society for Biomaterials. With her team, she works on resorbable polymeric and composite scaffolds and matrices for tissue engineering and regenerative medicine, drug delivery systems, especially those administered by inhalation or injection, and in nanomedicine. She has published more than 140 peer-reviewed papers, 12 book chapters and 9 patents. In 2020 she was elected Fellow Biomaterials Science & Engineering (FBSE).

Mina Petrovic



Dr. Mina Petrovic is currently a postdoctoral researcher in the 3D Printing and Biofabrication group of Prof. Ovsianikov and is managing an infrastructure project “LifeScope3D” at the TU Wien (Vienna, Austria). She obtained her master’s degree in Genetic Engineering and Biotechnology in 2017 at University of Belgrade, after completing two projects- at Institute Pasteur in Paris and Center for Genomic Regulation in Barcelona. She received a PhD in Molecular Biology at University of Vienna in 2021, in the laboratory of Dr. Daniel Gerlich at the Vienna BioCenter. Her research was funded by the Boehringer Ingelheim Fonds fellowship. The doctoral thesis shed light on molecular mechanisms behind nucleo-cytoplasmic separation during human cell division and yielded two publications in the Nature journal. She started her current position at the TU Wien in 2021, where she is able to pursue her passion for new technologies in bio-imaging, bio-printing and 3D cell culture. Her main area of research follows molecular aspects of cell

behaviour in 3D tissue constructs and their interaction with engineered 3D cell culture matrices. Dr. Petrovic is a member of the Austrian Cluster for Tissue Regeneration (<https://www.tissue-regeneration.at>).

Philip Procter



Philip Procter is industry-based, and self-employed in France since 2012. His main interest is in translating biomaterials from the laboratory to clinical use to match unmet clinical needs.

He has co-founded two SME's for developing adhesive biomaterials, GPBio Ltd, (Ireland 2013) and Biomimetic Innovations Ltd, (Ireland 2020). The latter is currently commercialising OsSticR, a patented, adhesive platform technology, together with two multinational implant companies.

He is an affiliated professor in Prof. Håkan Enqvist's team (Department of Materials Science and Engineering) at Uppsala University Sweden where he has been directing research into biomimetic biomaterials and tissue adhesives since 2014. Additionally, he mentors a tissue adhesive project in Professor Dominique Pioletti's team at EPFL in Lausanne, Switzerland.

He is qualified as a Chartered Engineer (FIMechE, UK) and Chartered Scientist (FIPEM, UK) and hold a PhD. In Biomedical Engineering, Strathclyde University, Scotland.

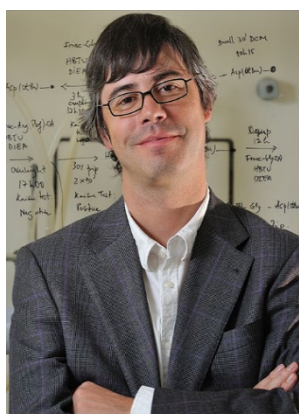
Manuela T. Raimondi



Dr. Raimondi is currently listed among the World's Top 2% Scientists by the Stanford university ranking. She has been awarded 4 frontier research grants by the European Research Council (ERC). Dr. Raimondi is a Mechanical Engineer with a PhD in Bioengineering obtained in 2000 from Politecnico di Milano, Italy. Here, she is a Full Professor in Bioengineering at the Department of Chemistry, Materials and Chemical Engineering "G. Natta". Dr. Raimondi is the founding Director of the Mechanobiology Lab. She has invented cutting-edge tools for cell modelling, ranging from bioengineered stem cell niches, to organoids-on-chip, to miniaturized imaging chambers implantable in vivo. She is a visiting professor at the Children's Hospital of Philadelphia, Dept. of Pediatrics, Perelman School of Medicine and Dept. of Bioengineering, School of Engineering and Applied Sciences, University of Pennsylvania. Her current research is funded by the European Research Council (ERC), the European Commission (EC) and the

National Centre for the Replacement, Refinement and Reduction of Animals in Research (NC3Rs, UK). Her platforms are commercialized by her start-up company, MOAB srl. Dr Raimondi is the founding President of ERC in Italy, the official association of ERC grantees based in Italy.

Rui L. Reis



Professor Rui L. Reis, PhD, DSc, Hon. Causa MD, Hon Causa PhD, FBSE, FTERM, member of NAE, FAIMBE, FEAMBES, is a Full Professor of Tissue Engineering, Regenerative Medicine, Biomaterials and Stem Cells at University of Minho (UMinho), Portugal. He is the Founding Director of the 3B's Research Group and the Dean/President of the I3Bs – Institute for Biomaterials, Biodegradables and Biomimetics, as well as the Director of the ICVS/3B's Associate Laboratory, all based at UMinho. He is also the CEO of the European Institute of Excellence on Tissue Engineering and Regenerative Medicine and has been (2015-2018) the Global President of the Tissue Engineering and Regenerative Medicine International Society (TERMIS) and the Editor-in-chief of the Journal of Tissue Engineering and Regenerative Medicine (2007-2021). He is presently Associate Editor of PNAS-NEXUS and is in the Editorial Board of several other relevant journals. He is a recognized World expert in the TERM and biomaterials fields, that

has edited several books and has more 1710 published works listed on ISI Web of Knowledge with an h index of 108 (1358 works and h=114 in Scopus and 2466 and h=137 in Google Scholar), being also an inventor of around 125 patents. He has more than 1070 publications with more than 10 citations each (i10). Based on those, he co-founded several companies that raised important private investments. According to Google Scholar his work has been cited more than 87500 times. He is listed in the annual Highly Cited Researchers 2022 list from Clarivate (responsible for the ISI Web of Science). This annual list identifies researchers who demonstrated significant influence in their chosen field or fields through the publication of multiple highly cited papers during the last decade. Their names are drawn from the publications that rank in the top 1% by citations for field and publication year in the Web of Science citation index.

He has been awarded many important international prizes, including among several others different innovation awards, the Jean Leray, George Winter and Klaas de Groot Awards (ESB), the Clemson Award for contributions to the literature Award (SFB), the TERMIS-EU contributions to the literature Award and the TERMIS-EU Career Achievement Award, the UNESCO- International Life Sciences Award and the IET A. F. Harvey Engineering Research Prize. He is a member of the National Academy of Engineering (USA), FBSE, FTERM, and was awarded 2 honoris causa degrees. He is/has been the PI of projects with a budget totalizing more than 120 MEuros of which around 60 MEuros are U. Minho funding.

Lia Rimondini



Lia Rimondini is Full Professor of Applied Medical Sciences and Technologies and Director of the Department of Health Sciences of the Università del Piemonte Orientale, Novara, Italy.

She is an expert in tissue engineering and in R&D of biomaterials and medical devices with anti-infective properties for regenerative medicine. She integrates technological knowledge with regulatory aspects and clinical practice with particular attention to dentistry and orthopedics. She is principal investigator and coordinator of several international research projects in the above-mentioned topics.

Makarand V. Risbud



Dr. Makarand V. Risbud is the James J. Maguire Jr. Professor of Spine Research and Director of the Division of Orthopaedic Research at Sidney Kimmel Medical College of Thomas Jefferson University. Dr. Risbud has published more than 160 peer-reviewed papers and has pioneered studies on the adaptation of nucleus pulposus cells to the unique hypoxic and hyperosmolar microenvironmental niche of the intervertebral disc. He serves on the editorial boards of many scientific journals, and on NIH grant review panels. He has served as the Chair of the ORS Spine section and convener of biannual ORS-PSRS International Spine Research Symposia. He is the recipient of the Henry Farfan Award by the North American Spine Society (NASS) for his outstanding contributions to basic spine research and The Professor Fredric Rieders Faculty Prize in Graduate Education by Jefferson College of Life Sciences.

Silvia Scaglione



Silvia Scaglione received the Ph.D. in Bioengineering at the University of Genoa (I) in 2005.

In 2004 she was Visiting Scientist at the University Hospital of Basel (CH). Since 2010 Scaglione is permanent Researcher (Senior researcher since 2021) at National Council of Research (CNR) where she leads a team of tissue engineering. She is founder and chief scientist of React4life, an Italian biotech company that develops organ on chips for medical research, winning several international projects and awards, such as the Innovation Radar award from EU as best Health technology. Scaglione is author of more than 90 international peer-reviewed papers, book chapters, author of 7 patents. She has been tutor of more than 50 master/PhD students, responsible and reviewer of several national/international research projects. She is also Ambassador of the European Innovation Council (EIC).

Mark Skylar-Scott



Mark Skylar-Scott is an Assistant Professor of Bioengineering at Stanford, a member of the Basic Science and Engineering Initiative at the Children's Heart Center and a Chan-Zuckerberg Biohub Investigator. Mark Skylar-Scott received his B.A. and M.Eng. degrees in Engineering at the University of Cambridge in 2007. For his doctoral thesis under the guidance of Prof. M. Fatih Yanik at MIT, he developed multiphoton photopatterning techniques to print full length proteins on 2D surfaces and in 3D scaffolds to probe and direct neural and vascular growth. For his postdoctoral research at Harvard and the Wyss Institute with Prof. Jennifer Lewis, he performed 3D bioprinting of thick and vascularized tissues, and created new high-throughput multimaterial multinozzle 3D printing systems. In 2022, he received the NIH Director's New Innovator Award towards his goals to develop new 3D printing hardware, wetware, and software to accelerate cardiovascular tissue engineering towards thick, vascularized, and functionally therapeutic

organs.

Jess Snedeker



Jess Snedeker is a Full Professor of Orthopedic Biomechanics, with joint faculty chairs at the ETH Zurich (Department of Health Sciences and Technology) and the University of Zurich (Medical Faculty) where he is the Vice Chair for Research in the Department of Orthopedics. Since 2015, he has served as Chief Scientific Officer of the Balgrist Campus, a federally funded center for musculoskeletal research. This national hub hosts more than 20 independent groups comprising more than 220 researchers working onsite. The Snedeker Laboratory is itself a leading research group focused on tendon mechanobiology and regenerative orthopedic surgery. The group has over 150 peer reviewed original publications in print and has received numerous scientific awards for its work. Beyond basic research, the Snedeker group actively develops and translates next-generation orthopedic devices for improved patient outcomes and better quality of life.

Andreas Stavropoulos



Andreas Stavropoulos is Professor of Periodontology at the Dept. of Periodontology, Faculty of Odontology, Malmö University, Sweden. He is registered specialist in Periodontology in Sweden and treats patients at the University Specialty Clinic. He did his postgraduate training in Periodontology and Implant Dentistry at Aarhus University (1996-1999), wherefrom he also received his Ph.D. (2002) and dr. Odont. degree (2011) based on preclinical and clinical studies on regenerative periodontal therapy and in association with dental implants. He was recruited at Malmö University as Professor in 2013. During 2020-2021 he was Professor Ordinarius at the Dept. of Periodontology and Regenerative Dentistry, University Clinics of Dental Medicine (CUMD), University of Geneva, Switzerland, and is adjunct Professor also with the Medical University of Vienna, Austria. He is the President of the European Federation of Periodontology, Councilor of the Periodontal Research Group of the IADR,

and Board Member of the International Academy of Periodontology. He is Editorial Board member in several esteemed dental journals, and editor-in-chief in Clinical and Experimental Dental Research.

Anna Tampieri



Anna Tampieri, Chemist, 35 years of experience in Material Science, particularly addressed to biomimetic materials and devices for regeneration of hard tissues and organs.

She authored more than 300 scientific papers published on peer-reviewed Journals and about 20 book chapters (H index = 61 ; citation index: 14.600). She is inventor of 16 National and International patents, several of which translated to 7 commercial products. She is Editor of a monography dealing with bio-inspired approaches in regenerative medicine, and Guest Editor of several international scientific journals. Tutor of 11 Ph.D, 14 M.Sc students, and more than 20 National and International fellowships.

Coordinator of 8 EC-funded Projects, and WP Leader in 6 EC-funded Projects. Coordinator of several national projects. Since 2009 she is member of the "European Technology Platform for Nanomedicine". She is Scientific Advisor of European Commission for funding scheme ERC-projects.

Since 2011 is Senior Affiliate Member at the Methodist Hospital Research Institute, Houston, U.S.A. Associated Professor in Medical Science and Applied Biotechnology, since 2014. Scientific officer of the company FINCERAMICA Biomedical Solution S.p.A. since 2005. She was the Idea-maker of the start-up Green-Bone ortho S.p.A since 2014. Awarded by the TIME Magazine as the 30° research most important in 2009. Awarded from Massachusetts Institute of Technology Review for disruptive invention in the field of material science for regenerative medicine.

Florian M. Thieringer



Florian M. Thieringer is Chair and Full Professor for Oral and Cranio-Maxillo-Facial Surgeon and a Medical 3D Expert at the University Hospital Basel (UHBS) and the University of Basel, Switzerland. Besides his clinical expertise in facial trauma, tumor, and reconstructive surgery, he leads the Medical Additive Manufacturing Research Group (Swiss MAM) at the Department of Biomedical Engineering, University of Basel, and serves as Co-Director of the multidisciplinary 3D Print Lab at the point-of-care, UHBS. Thieringer is internationally recognized for his work in computer-assisted surgery and medical additive manufacturing. As Co-Principal Investigator of the MIRACLE 2 project, he contributes to developing a robotic endoscope for contact-free bone surgery and patient-specific implants. He is also a board member of the University Hospital Basel flagship project, "Innovation Focus Regenerative Surgery."

Peter Thomsen



Peter Thomsen, MD, PhD, has a long-term track-record from studying material-tissue interactions in clinical and experimental models. He also has an experience of leading interdisciplinary centres and translational teams, resulting in clinically used bone-anchored oral, orthopaedic, hearing and GBR medical devices. His group's interests include material-cell and cell-cell communication, involving biodegradable materials, extracellular vesicles, and tissue regeneration. Research involves continuous method development to be able to address also dysregulated and compromised tissues and biointerfaces, e.g., associated with inflammation, infection and irradiation. He has received the George Winter Award, the Erna Ebeling Prize in Medical Technology, International Fellow Biomaterials Science and Engineering (FBSE) and is a member of The Royal Swedish Academy of Engineering Sciences.

Mark Tibbitt



Prof. Mark Tibbitt joined ETH Zurich as Assistant Professor of Macromolecular Engineering in June 2017. Previously, he was an NIH Postdoctoral Fellow in the laboratory of Prof. Robert Langer in the Koch Institute for Integrative Cancer Research at the Massachusetts Institute of Technology. He received his B.A. in Integrated Science and Mathematics from Northwestern University, and his Ph.D. in Chemical Engineering at the University of Colorado Boulder under the supervision of Prof. Kristi S. Anseth. His research integrates concepts from chemical engineering, synthetic chemistry, materials science, and biology to rationally design and assemble soft matter for biomedical applications. A major recent focus of his research has been on fundamental understanding and applications of dynamic polymer networks.

Sandra Van Vlierberghe



Sandra Van Vlierberghe has been appointed since 2017 at Ghent University (Belgium) as professor in the Polymer Chemistry & Biomaterials Group (PBM), which is affiliated to the Centre of Macromolecular Chemistry (CMaC) and the Ghent Advanced Therapies and Tissue Engineering (GATE) platform. She executed her PhD research under the supervision of Prof. Dr. Em. Etienne Schacht and defended her work on porous cryogels serving tissue engineering purposes in 2018. She was active as professor at University of Antwerp, was guest professor at University of Lille (France) and she currently also holds a guest professorship at Vrije Universiteit Brussel. In 2017, she received the Jean Leray Award from the European Society for Biomaterials (ESB). Her research targets to establish a polymer-based technological platform covering processing (through deposition- and light-based 3D-printing) and functionalization features sufficiently versatile to potentially address a wide range of tissue engineering challenges by exploiting the unique properties of light. She is ESB and TERMIS-EU council member as well as co-founder and scientific advisor of the spin-off BIO INX which is commercializing ready-to-use polymer-based formulations for 3D-printing. She is also co-founder and scientific advisor of the spin-off 4Tissue which is targeting the clinical translation of novel polymeric biomaterials.

Tina Vermonden



Dr. Tina Vermonden is Professor of Biomaterials for Drug Delivery and Regenerative Medicine at Utrecht University (UU). In the Department of Pharmaceutics, her team focusses on the development of polymeric materials that are suitable as either protein or drug delivery matrices or as scaffolds for regenerative medicine. She studied Molecular Sciences, and went on to earn her Ph.D. in Organic Chemistry from Wageningen University, where she worked on supramolecular coordination polymers. After completing her doctoral studies, Dr. Vermonden worked as a postdoctoral researcher at Utrecht University and the University of Minnesota before joining the Dept of Pharmaceutics as staff member at Utrecht University. She was awarded the prestigious VIDJ-grant and Aspasia-grant of Dutch Research Council for research on hydrogels that release drug-loaded micelles followed by a VICI-grant for research on shrinking printing for kidney engineering. Since 2022, she acts as associate editor for the ACS journal Biomacromolecules.

Federico Vozzi



Federico Vozzi is a Researcher at the Istituto di Fisiologia Clinica del CNR (Institute of Clinical Physiology, CNR) in Pisa, where he is the Principal Investigator of the Biomimetic Materials and Biological Tissue Engineering. In 2007, he received a Ph.D. in Drug Science from the University of Pisa. He is the coordinator or unit leader of several projects; he is the Technical Manager of the H2020 ALTERNATIVE project. Dr. Federico Vozzi is the author and co-author of > 100 scientific papers in international journals with peer review, presentations to national and international conferences, and the author of 3 patents. Federico Vozzi is co-founder of “Kirkstall Ltd”, a UK biotechnology company operating within the global organ-on-a-chip market. His research focuses on tissue engineering for cardiovascular application, 3D-printing and development and testing of bioreactors, and New Approach Methodologies (NAMs) for chemical risk assessment.

Claire Wilhelm



Claire Wilhelm, biophysicist, has oriented her research to the biomedical field since obtaining her PhD in 2003 in soft matter physics. This last decade, she used her knowledge of materials science to advance the field of nanomedicine, by adopting the materials angle from the outset. The goal has been to provide the fullest possible picture of the modes of action and fates of (magnetic) nanoparticles in their biological target environments. In doing so, she has worked mostly (i) in biophysics and (ii) in physical chemistry interfacing with therapy. The former has been awarded an ERC consolidator grant in 2014 (MaTissE) and led to the development of magnetic-based methods to manipulate living cells, explore tissue mechanics, and provide magnetic artificial tissue replacements. The latter has also been awarded an ERC consolidator grant in 2019 (NanoBioMade). It was founded on previous works proposing combined cancer solutions by applying multiple stimuli to the same nanoparticle, introducing the use of magnetic nanoparticles as photothermal tools, and developing extracellular vesicles engineering with nanoparticles and drugs as bio-camouflaged vectors. One bridging theme between these two areas of expertise has been whether and how nanoparticles properties can be affected once achieving their therapeutic mission, as they journey within their cellular. Claire Wilhelm was appointed CNRS research director in 2013 and senior research director in 2018. She received the CNRS bronze medal in 2011, the Louis Ancel prize in 2014, and the CNRS silver medal in 2022. She has co-authored 180+ publications (17 000+ citations, h-index 68), 7 patents, and she delivered 60+ invited lectures.

Regine Willumeit-Römer



Regine Willumeit-Römer started her career as physicist specialized on ribosomal structure research by neutron and X-ray scattering. After her PhD in physics she habilitated in biochemistry and moved from the ribosome towards membrane active molecules such as peptide antibiotics. This was also the link to become interested in antibacterial implant surfaces and biomaterials as such. To date, as Director of the Institute of Metallic Biomaterials at Helmholtz Center Hereon, Germany and professor at the Faculty of Engineering at Kiel University, she is responsible for the development of degradable Mg-based implant materials. Her research interest range from biomaterials and medical device development in general to the utilisation of in situ technologies to study material degradation and its effect on the tissue regeneration (both, in complex cell culture and in vivo). The most recent focus is on digital implant development which should help to tailor patient specific implants.

Tim Woodfield



Prof. Tim B. F. Woodfield, Ph.D. is Professor of Regenerative Medicine in the Department of Orthopaedic Surgery & Musculoskeletal Medicine at the University of Otago, New Zealand. He leads the Christchurch Regenerative Medicine and Tissue Engineering (CReaTE) Group and is Director of the University of Otago Centre for Bioengineering & Nanomedicine. His research platform involves development of novel bioinks and bioresins, biofabrication, spheroid bioassembly and additive manufacturing of medical devices applied to regenerative medicine of cartilage and bone, advanced 3D in vitro tissue culture models, and high throughput screening.

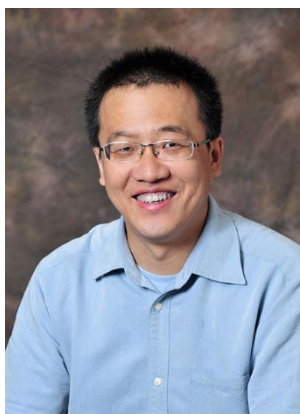
He has published over 170 peer reviewed journal articles, book chapters and published conference proceedings and has received a number of awards and fellowships including a prestigious Rutherford Discovery Fellowship from the Royal Society of New Zealand Te Apārangi and the University of Otago Research Gold Medal. He received the 2020 Research Excellence

Award from the Australasian Society for Biomaterials & Tissue Engineering (ASBTE), and was awarded Fellow, Biomaterials Science & Engineering (FBSE) in 2020 by the International Union of Societies in Biomaterials Science and Engineering (IUSBSE).

He has attracted over NZ\$28 million in competitive research funding as a Principal or Associate Investigator through grants from the Ministry of Business Innovation & Employment, Royal Society of New Zealand Te Apārangi, New Zealand Health Research Council, AO Foundation, as well as the European Commission (EU-FP7).

He is the current President of the International Society for Biofabrication (ISBF) and former President of the Australasian Society for Biomaterials & Tissue Engineering (ASBTE). He sits on the Tissue Engineering and Regenerative Medicine International Society Asia Pacific (TERMIS-AP) Council and on the Executive Editorial Board for Biofabrication. He is also an Editorial Board Member for Advanced Healthcare Materials and APL Bioengineering and Associate Editor for Frontiers in Bioengineering & Biotechnology.

Jie Zheng



Jie Zheng is a Professor of Chemical, Biomolecular, and Corrosion Engineering at the University of Akron. He earned his PhD from the University of Washington in 2005 and subsequently conducted 2-years postgraduate studies at the National Cancer Institute, NIH. He then joined the University of Akron since 2007. His research lab specializes in the development of advanced bio-inspired, bio-functional, and bio-mimetic soft materials for engineering and biomedical applications by combining machine-learning models, molecular simulations, and bio-related experiments. Zheng has received prestigious accolades throughout his career, including the NSF CAREER Award (2010), 3M Non-Tenure Faculty Award (2008), and Anton Award from the National Resource for Biomedical Supercomputing (2010), and has also been recognized multiple times as Top 2% of researchers worldwide in the field of Chemical Engineering. Zheng is author of 270+ journal papers, with a total citation of 20000+ times and an

h-index of 75.

Hala Zreiqat



Hala Zreiqat is a Payne-Scott Professor of biomedical engineering at The University of Sydney. The focus of her lab is on engineering functional synthetic biomaterials for use in regenerative medicine using cutting-edge materials, biological and nano techniques, and novel 3D-printing technologies.

Prof. Zreiqat's contribution to regenerative medicine and orthopaedic research has led to a number of national and international awards, including being named a Member of the Order of Australia (2019), 2021-2022 Fulbright Senior Scholar; Laureate for the TAKREEM Foundation 2022 "Scientific & Technological Achievement"; the 2018 New South Wales Premier's Woman of the Year, the King Abdullah II Order of Distinction of the Second Class (2018), Radcliffe Fellow at Harvard University (2016-2017); Eureka Prize winner for Innovative Use of Technology (2019); and University of Sydney Payne-Scott Professorial Distinction (2019). She is also a Fellow of the

Australian Academy of Sciences (2021); the Australian Academy of Technology & Engineering (2020), the International Association of Advanced Materials (2022), the Royal Society of New South Wales (2019); Australian Academy of Health and Medical Sciences (2019), and the International Orthopaedic Research Society (2019). She is the past president of the Australian & New Zealand Orthopaedic Research Society. She was the Director of the Australian Research Council Training Centre for Innovative BioEngineering (2017-2022) and a National Health and Medical Research Council Senior Research Fellow (2006-2020). She is the Chair of the Council for Australian-Arab Relations (CAAR) (2020-2023), an Associate of the John A. Paulson School of Engineering and Applied Sciences at Harvard University and an Honorary Professor at Shanghai Jiao Tong University.

Prof. Zreiqat has authored over 180 peer-reviewed publications with over 10,000 citations. Her research in the field of musculoskeletal disorders and biomaterials research has led to four awarded and four provisional patents and more than \$20.5M in competitive funding, including major grants from the National Health and Medical Research Council, Australian Research Council and the New South Wales Medical Devices Fund.

As well as her pioneering work in biomaterials development, Prof. Zreiqat is committed to improving opportunities for women and young scientists around the world. She is the founder and Chair of the BIOTech Futures, a science and engineering mentorship program for high school students.

Meet the Editors

We have the privilege of having editors of prestigious journals joining ESB2023, including Aline Lueckgen, Nature Communications; Raghavendra Palankar, Nature Nanotechnology; and Matt Pavlovich, Trends in Biotechnology at Cell Press. If you would like to illustrate them a paper proposal you might have, you can book a time slot. More information on: [Meet the Editor | 33rd Annual Conference of European Society for Biomaterials \(esb2023.org\)](https://www.esb2023.org)

Besides the booked appointments, each participant will have the opportunity to spontaneously meet them and other editors from excellent journals at the conference.

Aline Lueckgen



Aline Lueckgen is a senior editor on the biotechnology team at Nature Communications where she handles manuscripts on the topics of tissue engineering, regenerative medicine, drug delivery and biomedical devices. After obtaining her Bachelor's degree in bioengineering at Rice University in the USA, followed by a Master's degree in the same field at the EPFL in Switzerland, she completed her PhD at the Technical University in Berlin. In her doctoral work, she investigated the degradation behavior of alginate-based hydrogels for applications in bone regeneration. She looks forward to connecting with the ESB community in Davos.

Raghavendra Palankar



Raghavendra Palankar is an Associate Editor at Nature Nanotechnology. He is a Biochemical Engineer with a background in material sciences and technologies for single-molecule and single-cell manipulation with multidisciplinary training in basic and translational research.

Within the editorial team of Nature Nanotechnology, he handles a broad cross-section of manuscripts covering nanosensing, nano/micro-robotics, 3D/4D printing, bioelectronics, drug delivery platforms, DNA nanotechnology, synthetic biology that span all areas from nano to macroscales.

He is excited to be part of ESB2023 in Davos and looking forward to meeting and connecting with the community.

Matthew Pavlovich



Matthew earned his BS in chemical engineering from the Georgia Institute of Technology and his PhD in chemical engineering from the University of California at Berkeley, where he studied the biological effects of air plasmas. He studied analytical chemistry as a postdoctoral researcher at Northeastern University, then joined Cell Press at the start of 2016. Matt is a senior manager in the Trends group and has also worked in secondments as the product manager for Cell Press Community Review and as the acting editor-in-chief of STAR Protocols. Read more about Matt at <http://crosstalk.cell.com/blog/meet-the-editor-matt-pavlovich> and <http://crosstalk.cell.com/blog/an-interview-with-matthew-pavlovich-editor-of-trends-in-biotechnology>

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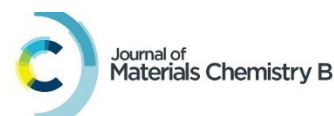
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Scanco Medical (www.scanco.ch), based in Zurich, Switzerland (since 1988) is the leading global provider of μ CT and the HR-pQCT (XtremeCT) systems. Specimen scanners offer industry leading high-resolution and large specimen size capabilities and include a high-capacity automatic sample loading carousel enabling a high throughput workflow. All MicroCT systems are bundled with easy to use and comprehensive software for image acquisition and analysis including Finite Element Analysis (optional), visualization and archiving running on Windows® based workstations Scanco also provides contract-based scanning and analysis services for academic and industrial groups. Contact us for a free and no-obligation demonstration. For attendees at ESB 2023, we offer a special opportunity to visit labs at the AO Research Institute Davos to see the scanners in action. Please email info@scanco.ch or see us at our booth for details.

Sponsors Location Plan



PROGRAM

Program at-a-glance

Monday September 4th

Room	Davos	Sanada	Aspen	Pischa+Parseen	Schwarzhorn	Seehorn	Wisshorn
14:00		YSF Workshop					
16:00	Coffee						
16:45	Conference opening						
17:45	Plenary André Studart						
18:30	Welcome Reception						

Tuesday September 5th

Room	Davos	Sanada	Aspen	Pischa+Parseen	Schwarzhorn	Seehorn	Wisshorn
08:15	Plenary Amir Zadpoor	YSF Workshop					
09:00	ESB JL Award Miguel Castilho						
09:45	Coffee and posters						
10:30	Calcium phosphate from bone to nanomedicine Matthias Epple	In vitro skin models Gianluca Ciardelli	TERMIS-EU: from biomaterial design to regenerative applications Antonella Motta	Biomaterials to implement vascularization in TERM Andrea Banfi	Collaborations between Australasia and Europe: Biomaterials and biofabrication Kristopher A Kilian Tim Woodfield	Translating biomaterials Bikramjit Basu	Zwitterionic biomaterials Jie Zheng
12:00	Rapid Fire	Rapid Fire	Rapid Fire	Rapid Fire	Rapid Fire	Rapid Fire	Rapid Fire
12:15	Lunch						
13:00	Poster session A						
14:00	Plenary Jill Helms						
14:45	Translation session co-organized by AODI Anna Beltzung	Sensing cells and their microenvironments Claudia Loebel	RSC lectureship supramolecular biomaterials Eric Appel	Sustainable biomaterials research Una FitzGerald	Korea-EU session: Smart healthcare materials and devices Sei Kwang Hahn	Frontiers in biomineralization Roland Kröger	In vitro models for preclinical testing: the road to market Federico Vozzi Silvia Scaglione
16:15	Coffee and posters						
17:00	Translation session co-organized by AODI Philip Procter	Dynamic self-assembling biomaterials Mark W Tibbitt	Microscale materials for sensing and cell production Julien Gautrot	Advances in bioprinting Jeroen Leijten	Tissue engineering of the eye Nasim Annabi	Function through nanostructure Silvia Marchesan	Multiscale bioceramics Hala Zreiqat
18:30		YSF Assembly					

Wednesday September 6th

Room	Davos	Sanada	Aspen	Pischa+Parseen	Schwarzhorn	Seehorn	Wisshorn
08:15	Plenary Tatiana Segura						
09:00	ESB CW Award Marc Bohner						
09:45	Coffee and posters						
10:30	Engineering of complex in vitro models Rui Reis	Musculoskeletal soft tissues Jess Snedeker	Tissue-biomaterial biointerfaces: strategies to understand the integration Peter Thomsen	One health experiences in research Darrell Abernethy Mario Barbosa	Drug delivery for tissue regeneration and ageing Lino Ferreira	Implant biomaterials and coatings Regine Willumeit-Römer	Photoresponsive hydrogels for biofabrication Mina Petrovic
12:00	Run around the lake						
16:15	FBSE Debate Elzbieta Pamula Joao Mano Geoff Richards Minna Kellomakki	Biomaterials for muscle and cultivated meat David Kaplan	Decellularized matrix Daniel Kelly	3D printing and self-assembly technologies Aleksandr Ovsianikov	Nanomaterials for cancer	ESB-EORS: unmet challenges and new biomaterials in spine Makarand Risbud Anna Tampieri	Unconventional biomaterial approaches
18:00	Rapid Fire	Rapid Fire	Rapid Fire	Rapid Fire	Rapid Fire	Rapid Fire	Rapid Fire
18:15	Poster session B						
19:15	Dinner served at the conference center			YSF night out			

Thursday September 7th

Room	Davos	Sanada	Aspen	Pischa+Parseen	Schwarzhorn	Seehorn	Wisshorn
08:15	Plenary Jason Burdick						
09:00	ESB KdG Award Joelle Amedee Vilamitjana						
09:45	Coffee and posters						
10:45	ESB GA						
11:45	Lunch and posters						
12:45	Engineering hydrogels to mimic tissue architecture Mark Skylar-Scott	SSB+RM meets ESB: Biofabrication and biomaterials for next-generation microphysiological systems Roger Kamm	Biologically inspired polymers Marleen Kamperman	Biomaterials for infection management Andreas Stavropoulos	BBCE - Scaffold for bone regeneration Elzbieta Pamula	Functional polymers Michael Monaghan	Magnetic systems for regenerative medicine Claire Wilhelm
14:30	Advanced biofabrication techniques Riccardo Levato	SSB+RM meets ESB: Programmable biomaterials Maartje Bastings	Structured hydrogels for advanced 3D models Tina Vermonden	Biomaterials for neural regeneration Laura De Laporte	BBCE- MSCs and osteogenesis John E. Davies	Extracellular vesicles bioengineering Miguel Lino	Multimodal nanobiomaterials for TERM Manuela Teresa Raimondi
16:00	Coffee and posters						
16:45		SSB+RM meets ESB: Beyond the bench: translating research into clinics and industry Florian Thieringer	Emerging biofabrication strategies for engineering bioactive tissue constructs Joao Mano	Beyond the Earth's Horizon: Biofabrication in space Lorenzo Moroni Rodrigo Coutinho de Almeida	Synthetic biology and AI Michael Levin	Functional biomaterials for musculoskeletal tissues regeneration Kamal Mustafa	Advanced in vitro models: from organs-on-chips to advanced 3D architectures Gianni Ciofani
18:15		SSB+RM GA					
19:30	Gala Dinner Conference Center						

Friday September 8th

Room	Davos	Sanada	Aspen	Pischa+Parseen	Schwarzhorn	Seehorn	Wisshorn
08:45	ISBF meets ESB: Advancing biofabrication with light-responsive biomaterials and technologies Sandra Van Vlierberghe	Cell-Instructive polymers Morgan Alexander	Orthopaedic biomaterials Warren Grayson	Biologically active ion releasing biomaterials for tissue engineering Elisabeth Engel	Advancing 3D cultures for bridging the in vitro - in vivo gap Lia Rimondini	Immunomodulatory biomaterials	Microneedles and probes
10:15	Coffee and posters						
11:00	Int Award Antonios G. Mikos						
11:45	Conference closing, student awards						
12:30	Lunch boxes						

Program with sessions

The presentation codes are as follows:

Award lecture: AWx

Plenary lecture: PLx

Keynote presentation: Sy.z-Kx

Oral presentation: Sy.z-Ox

The "x" represents the consecutive presentation number. There are 4 Award lectures and 5 Plenary lectures. The "y" represents the number of the parallel session, while the ".z" represents the room number.

For keynote and oral presentations, for example, in S2.3-O2

"S2" means Parallel Session 2. We have a total of 9 parallel sessions: Monday morning, Monday afternoon, Tuesday morning, Tuesday afternoon etc.

".3" indicates one of the 7 parallel sessions, which is matched with a specific room.

Specifically

.1: room Davos, which is the plenary room

.2: room Sanada

.3: room Aspen

.4: room Pitscha+Parsenn

.5: room Schwarzhorn

.6: room Seehorn

.7: room Wisshorn

"-O2" means the oral presentation 2 in that session.

The program published in this booklet reflects the status as per August 30th, 2023. Eventual last-minute changes will be included in the online version of the program, available at <https://virtual.oxfordabstracts.com/#/event/2511/program>

The URL will be available until August 2024.

The ESB2023 abstracts are hosted by [ARI Abstracts](https://www.ariabstracts.org/abstracts/2023/Collection3/ESB2023.html) where poster codes are visible: <https://www.ariabstracts.org/abstracts/2023/Collection3/ESB2023.html>

Monday, September 4

	A Davos	C Sanada	C Aspen	B Pischal/Parsenn	A Schwarzhorn	A Seehorn	A Wisshorn
2:00 pm		YSF Workshop					
4:00 pm	Coffee Break						
4:45 pm	Conference Opening						
5:45 pm	Plenary Lecture - André R Studart Printing and Self-assembly of Designer Porous Materials Chairs: Matteo D'Este, David Eglin, Marcy Zenobi Wong						
6:30 pm	Welcome Reception						

Monday September 4th

Tuesday September 5th

Tuesday, September 5

	A Davos	C Sanada	C Aspen	B Pischal/Parssenn	A Schwarzhorn	A Seehorn	A Wisshorn
8:15 am	Plenary Lecture - Armit Zadpoor Meta-biomaterials Chairs: Glano Ambrosio, Nicholas Dunne						
9:00 am	ESB JL Award - Miguel Castilho Engineering living tissues with organized (micro) fiber scaffolds Chairs: Silvia Faré, Sandra van Vlierbergh, Elizabeth Tanner						
9:45 am	Coffee Break & Posters & Exhibition Area						
10:30 am 12:00 pm	Calcium phosphate from bone to nanomedicine Matthias Epple Chairs: Michele Iafisco, Sander Leeuwenburgh	In vitro skin models Gianluca Ciardelli Chairs: Cristina Gonzales Garcia, Tiziano Serra	TERMIS-EU: from biomaterial design to regenerative applications Antonella Motta Chairs: Catherine Le Visage, Abhay Pandit	Biomaterials to implement vascularization in TERM Andrea Barfi Chairs: Nunzia di Maggio, Antonio Sileo	Collaborations between Australasia and Europe: Biomaterials and Biofabrication Kristopher A. Killian & Tim Woodfield Chairs: Elena de Juan Pardo, Tim Woodfield	Translating biomaterials Bikramjit Basu Chairs: Michael Gellinsky, Greshma Thirivikraman	Zwitterionic biomaterials Jie Zheng Chairs: Lorenzo Moroni, Patrick Weber
Parallel session 1							

Tuesday September 5th

<p>10:30 am</p>	<p>S1.1-K1 Calcium phosphate nanoparticles: Versatile tools for gene and drug delivery <u>M Epple</u> - Germany</p>	<p>S1.2-K1 Engineering an in vitro pathological skin model as a powerful tool to boost the validation of advanced wound dressings towards their quick market entry R Laurano, M Boffito, S Pionato, G Ciardelli - Italy</p>	<p>S1.3-K1 Design of an innovative and sustainable silk-based technological platform for bone tissue engineering A Motta, A Bucciarrelli, David Maniglio - Italy</p>	<p>S1.4-K1 Therapeutic regenerative medicine <u>A Barfi</u> - Switzerland</p>	<p>S1.5-K1 Materials for mechanobiology and mechanobiology <u>K Killian</u> - Australia</p>	<p>S1.6-K1 Interdisciplinary Translational research on Biomaterials and Implants: Current Status and Future Scope <u>B Basu</u> - India</p>	<p>S1.7-K1 Molecular Understanding and Structural-Based Design of Multifunctional Biomaterials <u>J Zheng</u> - USA</p>
<p>11:00 am</p>	<p>S1.1-O1 Bacterially synthesized hydroxyapatite nanoparticles from eggshell waste <u>M Paramasivam</u>, S Kumar, H Kanniyappan, V Muthuvijayan, C T S - India</p>	<p>S1.2-O1 Effect of an electrospun biodegradable poly(DL-lactide-co-ε-caprolactone) mesh loaded with or without antifibrotics as an alternative to commercially available polypropylene meshes for wound healing: from bench to in vivo approach <u>Y Polo</u>, L Rubio-Emazabel, A Ayerdi-Izquierdo, N Garcia-Urkia, N Alvarez, J Sarasua, J Fernandez, A Muñoz - Spain</p>	<p>S1.3-O1 Engineering controlled drug delivery from implant coatings by electrophoretic deposition of silk fibroin in tailored structures <u>F Yang</u> - Netherlands</p>	<p>S1.4-O1 Development of a pro-angiogenic hydrogel for (bio)engineering of blood-brain barrier <u>R Rodrigues</u>, SR Shin, M Barhobre-López - Portugal/USA</p>	<p>S1.5-K2 Harnessing Light Activated Bioinks and Cell-Structural Spheroids for Biofabrication of Functional Tissues <u>TBE Woodfield</u>, K Lim, G Lindberg, S Cui, C Murphy, L Veenendaal, G Major, GJ Hooper - China</p>	<p>S1.6-O1 3D-printed Airway Model for SARS-CoV-2 Infection and Drug Test <u>Y Lee</u>, MK Lee, HR Lee, M Kim, S Jung - Republic of Korea</p>	<p>S1.7-O1 Efficient Protein Aggregation Inhibition with Sulfobetaine Polymers and Their Hydrophobic Derivatives: Molecular Mechanisms Exploration <u>R Rajan</u>, K Watsunmura - Japan</p>

Tuesday September 5th

<p>11:15 am</p>	<p>S1.1-O2 Cancer therapeutic contrast using fully biodegradable iron- doped calcium phosphate nanozymes TP Ribeiro, JA Moreira, FJ Monteiro, MS Laranjeira - Portugal</p>	<p>S1.2-O2 Wound Management: Infection-Resistant Clay Membranes for Healing Burns and Scars K Mukhopadhyay, S Ghimire - USA</p>	<p>S1.3-O2 Development of Tissue Adhesive Microparticles for Gastrointestinal Perforation Closure and Postoperative Adhesion Prevention S.Ito, K Nagasaka, A Nishiguchi, F Sasaki, H Maeda, M Kabayama, A Ido, T Taguchi - Japan</p>	<p>S1.4-O2 Dental Pulp Stem cells facilitate the engineering of 3D functional pre- vascularized constructs E Chatzopoulou, T Gulbert, N Bousaidi, G Rucher, J Rose, S Germann, F Rouzet, C Chaussain, L Muller, C Gorin - France</p>	<p>S1.5-K2 continues</p>	<p>S1.6-O2 Piezoelectric patches preserve electrical integrity of cardiac tissue LM Monteiro, P J Gouveia, F Vasques- Novoa, S Rosa, I Bardi, RN Gomes, SC Santos, L Ricotti, L Varnozzi, D Guarnera, AM Leite- Moreira, P Mendes- Ferreira, AF Leite- Moreira, F Perbellini, C Terraciano, P Pinto-do-O, L Ferreira, DS Nascimento - Portugal</p>	<p>S1.7-O2 Zwitterionic Polymers as Next Generation Contrast Agents for the Diagnosis of Osteoarthritis A Maier, P Weber, D Fischer, M Zenobi- Wong - Switzerland</p>
<p>11:30 am</p>	<p>S1.1-O3 Degradable Zinc Phosphate Glass Microspheres for Applications in Bone Tissue Engineering T Tang, L Nguyen, J Knowles - United Kingdom</p>	<p>S1.2-O3 An Active microfluidic wound dressing for wound care M Karimi - Canada</p>	<p>S1.3-O3 Induced pluripotent stem cell-derived chondrocytes and pericyte-derived cells in a GelMA- based approach for in vivo osteochondral regeneration H Aclen, J Van Hoorick, S Van Vlierberghe, FP Luyten, V Boeramen - Belgium</p>	<p>S1.4-O3 Heart Repair using 3D Bioprinted Patches containing Cardiac Spheroids in Alginate/Gelatin Hydrogels C Gentile - Australia</p>	<p>S1.5-O1 Engineering Heart Valve Interfaces Using Melt Electrowriting: Biomimetic Design Strategies from Multimodal Imaging MJ Vermeij, J Lu, B Padman, C Lamb, R Kent, P Meia, B Doyle, A Rahman Imdayhid, S Jansen, RJ Dilleij, EM De-Juan-Pardo - Australia</p>	<p>S1.6-O3 Microgel-based Clickable Composite Bioink for 3D Bioprinting of Skin SK Ramamathan, R Shamasha, FR Boroojeni, J Rakar, J Junker, D Aili - Sweden</p>	<p>S1.7-O3 Zwitterionic coatings on PEEK to reduce inflammatory response E Roveretti, A Poliziani, F Acoponi, G Ballardini, L Ricotti -Italy</p>

Tuesday September 5th

11:45 am	S1.1-O4 Design of novel organic-inorganic nanocomposite hydrogels for directed biomineralization and in vivo bone tissue formation <u>BO Okesola</u> - United Kingdom	S1.2-O4 Delivery of miRNA-loaded Peptide Nanoparticles through 3D printed PEG-Chitosan-PCL Patches for Wound Healing <u>HO McCarthy</u> , <u>Y Sun</u> , <u>A Elkashtif</u> , <u>NU Dunne</u> - Ireland	S1.3-O4 Dynamic Alginate-Hydroxyapatite Based Composite Containing Human Mesenchymal Stromal Cells for Critical Sized Bone Defects <u>R Randriantsoa</u> , <u>G Miklosic</u> , <u>EI Bektas</u> , <u>M D'Este</u> - Switzerland	S1.4-O4 Bioengineering 3D lymphtatic vascular structures in synthetic matrices <u>R Odabasi</u> , <u>LA Krattiger</u> , <u>MW Tibbitt</u> , <u>M Ehrbar</u> - Switzerland	S1.5-O2 Convergence of biomimetic culture methods and ECM-based biomaterials for humanisation of bioengineered in vivo bone models <u>A Bessot</u> , <u>J Gunter</u> , <u>D Waugh</u> , <u>A Cipitria</u> , <u>DW Hutmacher</u> , <u>Ji McGovern</u> , <u>Nathalie Book</u> - Spain	S1.6-O4 Immune cell surveillance of and death on silicone catheter surfaces promotes biofilm formation on the surface <u>SK Jagirdar</u> , <u>S Jhunjhunwala</u> - India	S1.7-O4 Zwitterionic granular hydrogels attenuate immune response both in vitro and in vivo <u>M Asadikotayem</u> , <u>P Weber</u> , <u>F Surman</u> , <u>M Zenobi-Wong</u> - Switzerland
12:00 pm	Rapid Fire PoA.23.06 PoA.12.05 PoA.1.28 PoA.10.12	Rapid Fire PoA.20.10 PoA.10.55 PoA.9.13 PoA.1.29 PoB.23.08	Rapid Fire PoA.16.04 PoA.16.14 PoA.20.22 PoA.15.37 PoA.15.17	Rapid Fire PoA.4.09 PoA.6.06 PoA.7.17 PoB.18.12 PoA.7.08	Rapid Fire PoB.1.26 PoA.10.54 PoA.23.19 PoA.16.13 PoA.15.28	Rapid Fire PoA.14.02 PoA.6.11 PoA.16.31 PoA.8.14 PoA.16.37	Rapid Fire PoA.19.08 PoA.23.18 PoA.10.52 PoA.19.11 PoB.10.08
12:15 pm	Lunch						
1:00 pm	Poster Session A						
2:00 pm	<p style="background-color: yellow;">Plenary Lecture - Jill Helms Discovery is just the first step: translating scientific innovations into clinical practice</p> <p>Chairs: <u>Elena Della Bella</u>, <u>Geoff Richards</u></p>						
2:45 pm 4:15 pm	<p>Translation session co-organized by AODI <u>Anna Beltzung</u></p> <p>Chairs: <u>Claas Albers</u>, <u>Roland Herzog</u></p>	<p>Sensing cells and their microenvironments <u>Claudia Loebel</u></p> <p>Chairs: <u>Joanna Babilotte</u>, <u>Mark Tibbitt</u></p>	<p>RSC lectureship supramolecular biomaterials <u>Eric Appel</u></p> <p>Chairs: <u>Crstina Barrias</u>, <u>Laura Ghandhi</u></p>	<p>Sustainable biomaterials research <u>Una FitzGerald</u></p> <p>Chairs: <u>Laura Mecchi</u>, <u>Mario Barbosa</u></p>	<p>Korea-EU session: Smart healthcare materials and devices <u>Sei Keang Hahn</u></p> <p>Chairs: <u>Jae Young Lee</u>, <u>Yoon Sung Nam</u></p>	<p>Frontiers in Biomineralization <u>Roland Kröger</u></p> <p>Chairs: <u>Marc Bohner</u>, <u>Bregje de Wit</u></p>	<p>In vitro models for preclinical testing: the road to market <u>Silvia Scaglione</u> & <u>Federico Vozzi</u></p> <p>Chairs: <u>Gianluca Ciardelli</u>, <u>Arianna Grivet Branoot</u></p>
Parallel session 2							

Tuesday September 5th

<p>2:45 pm</p>	<p>S2.1-K1 From scientist to entrepreneur - a first-hand account A. Belzlung - Switzerland</p>	<p>S2.2-K1 Engineering the cell-matrix interface and guiding cell function C. Loebel - USA</p>	<p>S2.3-K1 Supramolecular (Bio)materials: From fundamentals to advanced solutions for pressing challenges in society EA Appel - USA</p>	<p>S2.4-K1 Sustainable Biomaterials Research U. FitzGerald - Ireland</p>	<p>S2.5-K1 Smart Wearable Devices for On-Demand Healthcare Applications SK. Hahn, TY Kim, S. Cheong - Republic of Korea</p>	<p>S2.6-K1 Structure and composition analyses of hierarchically organised biomaterials studied using advanced multiscale ex situ and in situ microscopy and spectroscopy techniques R. Kroger, J. Parker, E. Tong, L. Gower, N. Reznikov - United Kingdom</p>	<p>S2.7-K1 Tissue replica generation: the multifaceted contributions of cells and biomaterials E. Vozzi - Italy</p>
<p>3:15 pm</p>	<p>S2.1-O1 The patent landscape in biomaterials - recent evolution Ulf Schaberg - Switzerland</p>	<p>S2.2-O1 Phosphorylated focal adhesion kinase by mild reduction of cell surface proteins inhibits a RhoA/ROCK2-dependent adipogenic differentiation JH Jeong, SS Hur, JH Park, KH Park, CK Lee, Y. Hwang, - Republic of Korea</p>	<p>S2.3-O1 Design of supramolecular tissue-adhesive hydrogels to prevent postoperative adhesion A. Nishiquchi, S. Ito, K. Nagasaka T. Taguchi - Japan</p>	<p>S2.4-O1 Green nanomedicine and sustainable drug-releasing systems for regenerative medicine E. Tivano, E. Marcellio, C. Paoletti, L. Nicoletti, C. Mattioda, A. Zoso, I. Carragnola, C. Matti, V. Chiono - Italy</p>	<p>S2.5-O1 Real-Time Monitoring of The Transepithelial/Endothelial Electrical Resistance of A 3D- Bioprinted Lung Model S. Jung - Republic of Korea</p>	<p>S2.6-O1 Merging biomaterialization and Engineered Living Materials to promote osteogenic differentiation B. Parra-Torrealón, V. Jayawarna, A. Rodrigo-Navarro, J. González, O. Dobre, GB. Ramírez-Rodríguez, M. Salmeron-Sanchez, JM. Delgado-López - Spain</p>	<p>S2.7-K2 Organ-on-chip-based in vitro approaches for co-culturing 3D human cancer tissues and circulating capillary flow-driven immune cells for more predictive drug testing and human disease modelling S. Scadlione, E. Palanna, M. Aiello - Italy</p>

Tuesday September 5th

<p>3:30 pm</p>	<p>S2.1-O2 The role of IP in the success story of a start-up company <u>Tobias Brenni</u> - Switzerland</p>	<p>S2.2-O2 Visible light photocrosslinkable hydrogels for breast cancer microenvironment mimicking <u>M Pilton</u>, <u>N Contessi Negri</u>, <u>L Draghi</u>, <u>S Fare</u> - Italy</p>	<p>S2.3-O2 In vivo and in vitro Astrocyte-to-Neuron Conversion by AAV Encoded Transcription Factors Embedded in Biinspired Peptide Hydrogels <u>N Mahmoudi</u>, <u>A Harvey</u>, <u>CL Parish</u>, <u>RJ Williams</u>, <u>DR Nisbet</u> - Australia</p>	<p>S2.4-O2 Sustainable Polymers of Bacterial Origin and their use in biomedical applications <u>LRoy</u> - United Kingdom</p>	<p>S2.5-O2 Target-catalyzed Self-assembly of DNA Nanogel for Enzyme-free miRNA Assay <u>YS Nam</u> - Republic of Korea</p>	<p>S2.6-O2 The triple point for bone graft substitutes: finding the optimal internal design of 3D printed PCL-CaCO₃ composites for mechanical stability, cell seeding and degradation <u>EAlt</u>, <u>T Schuler</u>, <u>B Kruppke</u> - Germany</p>	<p>S2.7-K2 continues</p>
<p>3:45 pm</p>	<p>S2.1-O3 Challenges in clinical applications of 3D-bioprinted bionic organs <u>Michal Wszola</u> - Poland</p>	<p>S2.2-O3 Parallelized Measurement of 3D Single-Cell Mechanics using Acoustofluidics <u>LLüchtelefeld</u>, <u>V Lehmann</u>, <u>P Glyme-Jones</u>, <u>K Eyer</u> - United Kingdom</p>	<p>S2.3-O3 Injectable tough double-network hydrogels with tunable physico-chemical properties, high stretchability, self-recovery and fatigue resistance <u>D Oh</u>, <u>KD Park</u> - Republic of Korea</p>	<p>S2.4-O3 From agricultural waste to wound healing: sustainable development of barley extract-based bioactive dressings <u>G Gomez d'Ayala</u>, <u>A Soriente</u>, <u>D Duraccio</u>, <u>L Ambrosio</u>, <u>H Razzaq</u>, <u>M Grazia Raucci</u> - New Zealand</p>	<p>S2.5-O3 High-performance implantable bioelectrodes with immunocompatible topography and bioactivity for modulation of macrophage responses <u>J Young Lee</u> - Republic of Korea</p>	<p>S2.6-O3 Microcalcifications can trigger or suppress breast malignancy potential as a function of mineral type in a 3D tumor model <u>A Cohen</u>, <u>L Gohayer</u>, <u>N Vidavsky</u> - Israel</p>	<p>S2.7-O1 Mucocohesive Aurozyme for the regulation of multi-hazard signals in inflammatory bowel disease <u>H Shik Kim</u>, <u>S Lee</u>, <u>DY Lee</u> - Republic of Korea</p>
<p>4:00 pm</p>	<p>S2.1-O4 Business and Regulatory aspects in translational research <u>Andrea Mortali</u> - Switzerland</p>	<p>S2.2-O4 Hybrid pH-sensing systems for precisely probing single-cell acidification in in vitro tumor models <u>V Onesto</u>, <u>S Forcinì</u>, <u>H Iuete</u>, <u>F Colella</u>, <u>A Barra</u>, <u>D De Martiro</u>, <u>LL del Mercato</u> - Spain</p>	<p>S2.3-O4 HELIP biopolymer functionalisation for production of multifunctional scaffolds with improved cytocompatibility <u>LC Alfaro</u>, <u>A Bandiera</u> - Italy</p>	<p>S2.4-O4 Non-woody biomass hydrogels for dermal application: Is two better than one? <u>C FU Goh</u>, <u>L Ching Wong</u>, <u>C Peng Leh</u>, <u>V Murgaiyah</u> - Malaysia</p>	<p>S2.5-O4 Engineering Dynamic Materials with DNA towards Adaptive Biosensors <u>Y Kim</u> - Republic of Korea</p>	<p>S2.6-O4 Bioinspired growth of oriented calcium phosphate nanocrystals arrays, towards the development of bactericidal nanostructured surfaces <u>L Degli Esposti</u>, <u>C Fusacchia</u>, <u>A Adamiano</u>, <u>D Altamura</u>, <u>C Giannini</u>, <u>R Torelli</u>, <u>M Sanguineti</u>, <u>F Bugli</u>, <u>M Lafisco</u> - Italy</p>	<p>S2.7-O2 Engineered microbiota-gut-brain axis platform to address neurodegenerative disorders <u>S Perottoni</u>, <u>L Boeri</u>, <u>F Donnalaja</u>, <u>L Sardelli</u>, <u>D Albanì</u>, <u>C Giordano</u> - Italy</p>

Tuesday September 5th

4:15 pm	Coffee Break & Posters & Exhibition Area						
5:00 pm 6:30 pm	Translation session co-organized by AODI Phillip Procter Chairs: Jill Helms, Andrea Mortali	Dynamic self-assembling biomaterials Mark W. Tibbitt Chairs: João Borges, João F. Mano	Microscale materials for sensing and cell production Julien Gautrot Chairs: Christophe Helary, Roger Kamm	Advances in bioprinting Jeroen Leijten Chairs: Kris Killian, Gregor Miklosic	Tissue engineering of the eye Nasim Annabi Chairs: Maartje Bastings, Hannah C Lamont	Function through nanostructure Silvia Marchesan Chairs: Miriam Blazquez, Enzo Menna	Multiscale Bioceramics Hala Zreiqat Chairs: Roland Kroger, Anna Tampieri
Parallel session 3	S3.1-K1 Beyond the bench: translating research into clinics and industry From innovation to translation - a panel discussion with specialists from the field Phillip Procter - Sweden	S3.2-K1 Macromolecular Engineering of Dynamic Biomaterials MW Tibbitt - Switzerland	S3.3-K1 Mechanisms of Cellular Mechanosensing at the Nano- to Microscale - Impact of Interfacial Viscoelasticity and Toughness L Peng, D Kong, A Chrysanthou, JE Gautrot - United Kingdom	S3.4-K1 Advanced micromaterials and modular bio-inks for multiscale tissue engineering J Leijten - Netherlands	S3.5-K1 Targeted and sustained delivery of anti-inflammatory drugs for treatment of injured eyes N Annabi, Y Oz, Y Gu, Y Zhang - USA	S3.6-K1 Nanocarbons: One family, different fits in composite hydrogel biomaterials S Marchesan - Italy	S3.7-K1 Current Advances in Vat-Photopolymerisation of Bioceramics and Future Directions I Roohani, S Wang, A Entezar, H Zreiqat - Australia
5:00 pm	Panel Discussion: Tobias Brenni Phillip Procter Michal Waszola Ulf Schaberg Andrea Mortali	S3.2-O1 Injectable Self-Assembled Hydrogel Platform Enhances Influenza Vaccine Efficacy and Protection Against Potential Pandemic Strains OM Saouaf, EA Appel - USA	S3.3-O1 Exploring micropore technology for high-throughput formation of osteoclasts JHusch, N Araljo-Gomes, N Willemen, J van den Beucken, J Leijten - Netherlands	S3.4-O1 Reactive jet impingement bioprinting with porous substrates for in situ seeding into implants M Kotlarz, C Tziveleki, P Melo, A Babae, K Hettiarachilage, P Gentile, AM Ferreira, K Dalgaard - United Kingdom	S3.5-O1 Towards corneal limbus in vitro model: regulation of hPSC-LSCs phenotype by matrix stiffness and topography during cell differentiation process M Kauppila, A Mörö, T Ihalainen, J Valle Delgado, P Puroitola, L Sukki, P Kallio, H Skottnan - Finland	S3.6-O1 Protein-stabilized nanoparticles as the next generation of targeted MRI contrast agents G Guedes, KB Uribe, L Martinez-Parra, A Aires, J Ruiz-Cabello, AL Cortajarena - Spain	S3.7-O1 Cellular Ceramics made from Zirconia-Toughened Alumina and Ytria-Stabilized Zirconia Show Good Biocompatibility and a High Osseointegrative Potential: In Vitro Results and In Vivo Evidence from a Pilot Study in Sheep Y Mödinger, C Freytag, R Detsch, M Götz, A Rempp, AA Porporati - Germany
5:30 pm							

Tuesday September 5th

<p>5:45 pm</p>	<p>Panel Discussion continues</p>	<p>S3.2-O2 Targeted Gene Delivery for Huntington's Disease Using Bioinspired Self-Assembling Peptide Hydrogels Integrated with BDNF-Encoded AAV SS Dehnavi, RJ Williams, CL Parrish, DR Nisbet - Australia</p>	<p>S3.3-O2 Microgels and hydrogels microparticles for bioensing E Battista, PA Netti, F Causa - Italy</p>	<p>S3.4-O2 Engineering aqueous two-phase system inks to drive cellular differentiation, alignment and functionality in 3D bioprinted constructs M Marrotulli, A Iacomino, F Serpe, A Barbeta, G Ruocco, C Scognamiglio, G Cidonio - Italy</p>	<p>S3.5-O2 3D Bioprinted Stromal Substitute With Human Keratocytes S Buyuksungur, AR Cenk Celebi, D Yucei, D Basoz, CK Bektas, N Hasirci, V Hasirci - Turkey</p>	<p>S3.6-O2 Simultaneous bone cancer therapy and regeneration through an organic-inorganic hybrid nanocomposite A Bidham, I Fasolino, S Borsacchi, M Pannico, L Calucci, M Serrano-Ruiz, L Ambrosio, M Grazia Rauci - Italy</p>	<p>S3.7-O2 In-vitro and In-vivo evaluation of a silicate (1393) and borosilicate (1393B20) robocasted bioactive glass scaffolds A Szozdta, AH Houarou, S Miethinen, L Sicard, C Gorin, J Massera - Finland</p>
<p>6:00 pm</p>		<p>S3.2-O3 Boronate ester-based hydrogels for biomedical applications: challenges and opportunities N Lagneau, P Tourmier, L Terriac, C Le Visage, J Guichoux, Y Delplace - France</p>	<p>S3.3-O3 Liquefied core-shell capsules with multifunctional properties based on alginate interfacial gelation AS Vazili, E Yashghani-Farhani, AR Boccoacini - Germany</p>	<p>S3.4-O3 Regeneration of auricular cartilage for the treatment of microtia P Fisch, T Linder, M Zenobi-Wong - Switzerland</p>	<p>S3.5-O3 Development of a 3D structured hydrogel membrane for cellular therapy of the outer blood-retina barrier C Dulardin, W Haboel, C Monville, D Letourneur, T Simon-Yarza - France</p>	<p>S3.6-O3 Incorporation of Graphene Oxide and Gelatin methacryol bioinks for articular cartilage regeneration L Ogene, S Woods, S Vranic, M Domingos, S Moulton, S Kirnber - Australia</p>	<p>S3.7-O3 Effect of Pore-Directing Agent to Silicon Source ratio for the Development of Mesoporous Cerium and Calcium-doped Silica Nanoparticles for Sustained Doxycycline Release GK Pouroufzidou, D Gkilipoulos, K Tsachouridis, I Tsamesidis, G Michailidou, Aa Beketova, KS Triantafyllidis, D Bikiaris, AD Anastasiou, E Kortzonasaki - Greece</p>

Tuesday September 5th

<p>6:15 pm</p>	<p>Panel Discussion continues</p>	<p>S3.2-O4 Engineering Dynamic Materials with DNA towards Adaptive Biosensors <u>Y Kim</u> - Republic of Korea</p>	<p>S3.3-O4 Self-assembly induced-charge electrophoretic nanosensors for high throughput detection of ovarian cancer biomarker HE4 and CA125 <u>YZ Wang</u>, <u>NS Li</u>, <u>HH Pang</u>, <u>YP Hsu</u>, <u>CH Chuang</u>, <u>HW Yang</u> - Taiwan</p>	<p>S3.4-O4 Generation of high cell density biolinks for bioprinting of functional cartilage grafts. <u>KJ Storey</u>, <u>GS Kronemberger</u>, <u>FD Spagnuolo</u>, <u>DJ Kelly</u> - Ireland</p>	<p>S3.5-O4 3D Bioprinting of Corneal Cell-Laden Inks as Bioengineered Corneal Substitutes <u>LG Brunel</u>, <u>SM Hull</u>, <u>T Wungcharoen</u>, <u>U Han</u>, <u>D Myung</u>, <u>SC Heilshorn</u> - USA</p>	<p>S3.6-O4 Chemical modification of carbon nanostructures enables preparation of materials for tissue engineering and regenerative medicine <u>L Ceroni</u>, <u>S Pressi</u>, <u>S Barbon</u>, <u>M Gasparotto</u>, <u>G Scapin</u>, <u>EL Papadopoulou</u>, <u>C Tiengo</u>, <u>E Stocco</u>, <u>F Filippini</u>, <u>A Porzionato</u>, <u>MM Blazquez</u>, <u>E Menna</u> - Italy</p>	<p>S3.7-O4 Fabrication and Characterization of Formable, In-situ Setting Ceramic Composite Bone Tissue Scaffolds <u>M Matintar</u>, <u>J Nyckha</u> - Canada</p>
<p>6:30 pm</p>	<p>YSF Assembly</p>						

Wednesday September 6th

Wednesday, September 6							
	A Davos	C Sanada	C Aspen	B Pischal/Parsemm	A Schwarzhorn	A Seehorn	A Wisshorn
8:15 am	Plenary Lecture - Tatiana Segura Mapping our way to functional recovery after ischemic stroke Chair: Sibylle Grad, Marcy Zenobi Wong						
9:00 am	ESB GW Award - Marc Bohner Three decades of research on calcium phosphates for bone regeneration Chair: Abhay Pandit, Ana Pego						
9:45 am	Coffee Break & Posters & Exhibition Area						
10:30 am 12:00 pm	Engineering of complex in vitro models Rui Reis Chairs: Joaquim Miguel Oliveira, Rui L. Reis	Musculoskeletal soft tissues Jess Snedeker Chairs: Jerome Guicheux, Nele Pien	Tissue-biomaterial biointerfaces: strategies to understand the integration Peter Thomsen Chairs: Maria ChatziniKolaidou, Maria Grazia Raucci	One health experiences in research Darrell Abernethy & Mario Barbosa Chairs: Stephan Zeiter, Pheilpe Hatt	Drug delivery for tissue regeneration and ageing Lino Ferreira Chairs: Cristina Barrias, Lino da Silva Ferreira	Implant biomaterials and coatings Regine Willumeit-Römer Chairs: Iulian Antoniac, Anastasia Beketova	Photoresponsive hydrogels for biofabrication Milna Petrovic Chairs: Christian Gehr, Xiao-Hua Qin
Parallel session 4							

Wednesday September 6th

<p>10:30 am</p>	<p>S4.1-K1 Engineering of complex in vitro models <u>RL Reis</u> - Portugal</p>	<p>S4.2-K1 The mechanics of tendon biology <u>JG Snedeker</u> - Switzerland</p>	<p>S4.3-K1 Communication at biointerfaces <u>P Thomssen</u> - Sweden</p>	<p>S4.4-K1 One Health Experiences in Research: Useful Convenience or Essential Collaboration? <u>D Abernethy</u> - United Kingdom</p>	<p>S4.5-K1 Drug delivery for tissue regeneration and ageing <u>LS Ferreira</u> - Portugal</p>	<p>S4.6-K1 Multi-scale evaluation of bone adaptation around magnesium-based implants <u>S Sefa, H Ówiewka, K Iskhakova, H Helmholtz, D Krüger, J Moosmann, S Galli, DCF Wieland, B Zeller-Plumhoff, R Willumeit-Römer</u> - Germany</p>	<p>S4.7-K1 Photoresponsive hydrogels for multiphoton biofabrication <u>M Petrovic, A Dobos, M Tromayer, M Lunzer, S Sayer, M Markovic, R Liska, A Ovsianikov</u> - Austria</p>
<p>11:00 am</p>	<p>S4.1-O1 Advantages and challenges in development of perfusion-based 3D cell cultures <u>B Obradovic, I Banicevic, J Petrovic, M Millosevic, M Milivojevic, M Stevanovic, R Jankovic, M Dragoi, M Pestic, J Stojkowska</u> - Serbia</p>	<p>S4.2-O1 Two-pole electrospun PCL/Collagen scaffold and physically differentiated ADSCs, a secure and effective combination for tendon Regeneration <u>SA Hosselini, SA Hosselini, Toopqahara, S Bonakdar, H Aminianfar, SW Park, MM Dehghan</u> - Republic of Korea</p>	<p>S4.3-O1 Prevention of aortic anastomotic leakage using a surgical adhesive based on catechol group-modified Alaska pollock gelatin <u>K Nagasaka, S Watanabe, S Ito, A Nishiguchi, H Otsuka, T Taguchi</u> - Japan</p>	<p>S4.4-K2 Implementing the One Health Concept in Academia: an opportunity to break walls and expand biomaterials concepts <u>MA Barbosa</u> - Portugal</p>	<p>S4.5-O1 Targeting the senescence program in the blood-brain barrier with nanoparticulate senotherapeutic <u>IT Ribeliro, DS Redondo, PA Zabalza, MG Vizioi, S Rosa, P Pitrez, JG Sancho, D Jurk, V Francisco, L Ferreira</u> - Portugal</p>	<p>S4.6-O1 Polymer-augmented screws in different bone qualities <u>M.de Wild, SZimmermann, K Klein, T Steffen, F Schlotzig, C Hasler, B von Reichenberg</u> - Switzerland</p>	<p>S4.7-O1 Towards bedside manufacturing of biodegradable implants: volumetric 3D-printing of thiol-ene crosslinkable poly(ε-caprolactone) <u>Q Thijssen, A Quack, J Toombs, E De Vlieghere, L Parmentier, H Taylor, S Van Vierbergen</u> - Belgium</p>

Wednesday September 6th

<p>11:15 am</p>	<p>S4.1-O2 A new PNS-CNS-on-chip to explore the therapeutic potential of neuro-targeted trimethyl chitosan-based nanoparticles as a treatment for spinal cord injury AP Spencer, A Vilaga, M Xavier, R Santos, T Calmeiro, R Martins, V Leiro, E Perison, SC Guimaraes, B Maoz, AP Pêgo - Portugal</p>	<p>S4.2-O2 mRNA Activated Matrices: A Tridimensional System for Articular Cartilage Repair H Rilo-Alvarez, AM Ledo, M Lopez-Peña, FM Muñoz, A Vidal, M Garcia-Fuentes - Spain</p>	<p>S4.3-O2 Effect of surface properties on the vascular biocompatibility of 3D-printed shape-memory alloys for the development of smart cardiovascular implants JOrdano, O Corterres-Almengor, J Molina-Aldaregula, M Echeverry Rendón - Spain</p>	<p>S4.4-K2 continues</p>	<p>S4.5-O2 Engineering nanoparticles for an efficient delivery of senolytics to the aged liver V.Franisco, A Marques, D Sanfeliu-Redondo, J Piteiz, I Tomé, S Rosa, J Gracia-Sancho, L Ferreira - Portugal</p>	<p>S4.6-O2 Strong Photo-curable Thiol-ene Based Composites for use in the Fixation of Bone Fractures DJHutchinson, V Granskog, M Malkoch - Sweden</p>	<p>S4.7-O2 Laser-guided Bone Cell Network Formation In Vitro via Two-photon Microchannel Ablation C.Gelke, W Qiu, PK Jaeger, R Müller, XH Qin - Switzerland</p>
<p>11:30 am</p>	<p>S4.1-O3 Development of 3D Cell-Printed Neural Network to Stimulate Brain Microenvironment and Its Application to Neurodegeneration Study M Bae, J Jang, DW Cho - Republic of Korea</p>	<p>S4.2-O3 Role of Compression and Shear in Latent TGF-β1 Mechanical Activation L.Mecchi, AG Guex, MU Stoddart - Switzerland</p>	<p>S4.3-O3 Influence of training in bone healing around bio-resorbable implants imaged by scattering methods L.Rodriguez Fernandez, T Bretschneider, O Suljevic, T Grünewald, N Sommer, A Weinberg, H Lichtenegger, A Menzel - Switzerland</p>	<p>S4.4-O1 One step closer to in-vivo implantation in sheep by customising the Young's modulus of polycaprolactone and thus nitric oxide releasing 3D-printed vascular grafts E.Kabirian, P Meia, A Shavandi, R Heyring - Belgium</p>	<p>S4.5-O3 Injectable hydrogels loaded with hybrid nanoparticles for cell/tissue specific microRNA delivery: towards novel advanced therapies for cardiac regeneration Y.Chion, C Paolletti, L Nicoletti, E Marcello, GP Stola, M Coletto, B Stella, C Mattu - Italy</p>	<p>S4.6-O3 New metal-based coatings for vertebral prostheses and customized tools for the assessment of their antimicrobial and anti-tumor activity G.Graziani, D Ghezzi, M Sartori, R Vecchiome, M Cappellletti, B Corrado, PA Netti, MV Lipperi, M Montessisa, E Sassoni, F Perut, M Fini, F Valle, D Monopoli, N Baldini - Italy</p>	<p>S4.7-O3 Shape memory elastomers for biomedical applications MB Baker - Netherlands</p>

Wednesday September 6th

<p>11:45 am</p>	<p>S4.1-O4 Engineering Spherical Membranes for Inhalation Tests in the Presence of Synthetic Mucus <u>L Caccopardo</u>, N Guazzelli, P Signorello, F Pratesi, A Corti, A Ahluwalia - Italy</p>	<p>S4.2-O4 Development of thermo-responsive hydrogels to support the response of osteoarthritic chondrocytes to mechanical loading <u>A Aerts</u>, M Smet, I Jonkers, R Cardinaelis, M Vovchenko, SA Elahi, R Castro Viruelas, N Viudes Sarrion - Belgium</p>	<p>S4.3-O4 Characterizing materials-tissue interface and in vivo bone regeneration of critical-sized bone defects loaded with osteogenic ceramic granules <u>O Mikkelena-Jilbarren</u>, E Muñoz-Lopez, L Iurriaga, D Werner, D Martinez-Redondo, JA Romero-Torrecilla, M Martin-Tenorio, F Granero-Molto, M Salmeron-Sanchez, A Cipitria - Spain</p>	<p>S4.4-O2 Welfare monitoring in the novel ovine thoracic limb, bilateral, single-toe osteotomy model (OBST) <u>NK Nikolajsen</u>, CN Tierp-Wong, T Colding-Rasmussen, MM Petersen, D Hutchinson, M Malkoch, C Lindegaard, S Jacobsen - Denmark</p>	<p>S4.5-O4 Stimuli-responsive 3D printed hydrogel composite with drug-releasing short-filaments for infected wound healing <u>D Rybak</u>, C Rhinoldi, P Nakielski, F Pierini - Poland</p>	<p>S4.6-O4 Smart pH-responsive coating for orthopedic implants to control bacterial colonization and biofilm growth using antimicrobial peptides <u>Immobilization M Zare</u>, A Stamboulis - United Kingdom</p>	<p>S4.7-O4 Spatial-selective Volumetric 4D Printing and Single-photon Grafting of Biomolecules within Centimeter-scale Hydrogels via Tomographic Manufacturing <u>M Falandt</u>, P Nuñez Bernal, O Dudaryeva, S Florczak, G Grössbacher, M Schweiger, A Longoni, C Grean, M Assuncão, O Nijssen, S van Vlierberghe, J Malda, T Vermonden, R Levato - Netherlands</p>
<p>Run around the lake</p>							
<p>13:00 pm 3:00 pm</p>							
<p>4:15 pm 6:00 pm</p> <p>Parallel session 5</p>	<p>FBSE Debate Chair: Rui L Reis</p>	<p>Biomaterials for muscle and cultivated meat TBD Chairs: Isabel Marinho Bjorge, Sara Nadine</p>	<p>Decellularized matrix Daniel Kelly Chairs: Una FitzGerald, Zhen Li</p>	<p>3D printing and self-assembly technologies Aleksandr Ovsianikov Chairs: Catherine Le Visage, Riccardo Tognato</p>	<p>Nanomaterials for cancer Chairs: Lucy Kind, Antons Sizovs</p>	<p>ESB-EORS: unmet challenges and new biomaterials in spine Makarand Risbud & Anna Tampieri Chairs: Silvia Farè, Gabriela Graziani</p>	<p>Unconventional biomaterial approaches Chairs: Matteo Santin, Tatiana Segura</p>

Wednesday September 6th

<p>4:15 pm</p>	<p>This house believes that the future of biomaterials lies much more on new emerging applications than on implants and medical devices</p> <p>Elzbeta Pamula, Joao Mano vs. Geoff Richards, Minna Kellomaki</p>	<p>S5.2-K1 Biomaterials for Tissue Engineering Meats – challenges and opportunities TBD</p>	<p>S5.3-K1 Biofabrication and 3D (Bio)printing Strategies for Musculoskeletal Tissue Regeneration DJ Kelly - Ireland</p>	<p>S5.4-K1 Scaffolded Spheroids for Modular Bone and Cartilage Tissue Engineering O Kopinski-Grünwald, O Guillaume, J Ferguson, B Schradl, I Neacsu, P Heilmel, M Petrovic, M Markovic, A Ovsianikov - Austria</p>	<p>S5.5-O1 Polydopamine Nanoparticles-Based Hyperthermia and Chemotherapy for the Treatment of Liver Cancer M Emanet, A Carrignani, M Battaglini, G Ciofani - Italy</p> <p>S5.5-O2 Exploring the Limits of Enhanced Permeability-Retention Effect in Triple-Negative Breast Cancer A Sizovs, R Serzants, B Svalbe - Latvia</p>	<p>S5.6-K1 ESB-EORS: unmet challenges and new biomaterials in spine MV Risbud - USA</p>	<p>S5.7-O1 Hexagonal Boron Nitride Quantum Dots Embedded Biopolymer for Peroxidase-Assisted Colorimetric Detection of Pathogens S Malimdar - India</p> <p>S5.7-O2 Cryopreservation of Red Blood Cells in Absence of Toxic Cryoprotectants via Ice Templating K Qin, C Hélay, EM Fernandes - France</p>
<p>4:30 pm</p>			<p>S5.3-O1 Leveraging host-guest interactions to produce highly reshapable soft hydrogels from proteins of human origin BML Ladeira, MC Gomes, CA Custódio, K Wei, JF Mano - Portugal</p>	<p>S5.4-O1 Fabrication of Scaffolds for Tissue Regeneration Using Melt Electrowriting of PEOT-PBT Copolymers PK Reddy Gudeti, A Amirsadeghi, M Koch, M Kamperman, M Włodarczyk-Biegun - Poland</p>	<p>S5.5-O3 The therapy enhancing effect of noble metal nanoparticles in proton therapy is driven by the surface functionality C Rehbock, S Zwiernoff, J Johny, A Hensei, S Krauer, C Behrends, C Bäumer, B Trimmermann, S Barcikowski - Germany</p>	<p>S5.6-K2 Nature inspires bioactive, multifunctional 3-D scaffolds for spinal bone regeneration ATampieri, S Sprio - Italy</p>	<p>S5.7-O3 In situ formed ROS-responsive hydrogel with STING agonist and gemcitabine to intensify immunotherapy against pancreatic ductal adenocarcinoma M Wang, J Huang, Q Hu, T Liang - China</p>
<p>4:45 pm</p>		<p>S5.2-O1 Development of Bionks for Cultured Meat on the Basis of Polysaccharide Hydrogels and Plant Proteins JO Wolschlaeger, PJ Kluger - Germany</p>					

Wednesday September 6th

<p>5:00 pm</p>	<p>Debate continues</p>	<p>S5-2-O2 Filamented Light (Flight) Biotabrication of Centimeter-scale Muscle Tissue Constructs Using Pax7-<u>ngGFP</u> Primary Myoblasts <u>H.Liu</u>, <u>P Chansoria</u>, <u>J Janiak</u>, <u>I Kim</u>, <u>O Bar-Nur</u>, <u>M Zenobi-Wong</u> - Switzerland</p>	<p>S5-3-O2 Stiffness gradients in skin-derived extracellular matrix (ECM) hydrogel cause phenotypic changes in dermal fibroblasts <u>E.Zhao</u>, <u>P Sharma</u>, <u>M Harmsen</u>, <u>J Burgess</u>, <u>M Zhang</u> - Netherlands</p>	<p>S5-4-O2 Multifunctional Hybrid Organic-Inorganic Porous Silica Nanoparticles and 3D Assemblies with Hierarchical Porosity for Controlling Delivery of Small to Large Molecule Therapeutics <u>S.Paikvai</u>, <u>G Newham</u>, <u>S Evans</u>, <u>Z.Yuin Ong</u> - United Kingdom</p>	<p>S5-5-O4 Development of tunable hydrogel with Fenton-like activity for natural killer cells and self-assembled antibody nanoparticles delivery to suppress postoperative malignant glioma recurrence <u>HH Pang</u>, <u>CY Huang</u>, <u>KC Wei</u>, <u>HW Yang</u> - Taiwan</p>	<p>S5-6-K2 continues</p>	<p>S5-7-O4 An Ionic Liquid Ablation Agent for Local Ablation and Immune Activation in Pancreatic Cancer <u>J Huang</u>, <u>M Wang</u>, <u>Q Hu</u>, <u>T Liang</u> - China</p>
<p>5:15 pm</p>		<p>S5-2-O3 Injectable and porous hydrogel fate as scaffold in Volumetric Muscle Loss context <u>C.Parel</u>, <u>V Gache</u>, <u>J Sohier</u> - France</p>	<p>S5-3-O3 Development of 3D breast cancer models using decellularized mammary glands bioinks <u>B Blanco-Fernandez</u>, <u>S Rey-Vinolas</u>, <u>G Bagci</u>, <u>S Perez-Arnoldo</u>, <u>A Concheiro</u>, <u>C Alvarez-Lorenzo</u>, <u>E Engel</u> - Spain</p>	<p>S5-4-O3 Proteolytic Remodeling of 3D Bioprinted Hydrogel Structures in Breast Cancer Models <u>E Rasti Borooleni</u>, <u>S Naeiniipou</u>, <u>P Lfwergrén</u>, <u>A Abrahamsson</u>, <u>C Dabrosin</u>, <u>R Selegård</u>, <u>D Alii</u> - Sweden</p>	<p>S5-5-O5 Thermoresponsive hyaluronan/phenanthriplatin nanogels with very high carrier capacity and anticancer efficacy <u>F Latecka</u>, <u>L Münster</u>, <u>T Juriňáková</u>, <u>M Fojtů</u>, <u>J Vlcha</u> - Czech Republic</p>	<p>S5-6-O1 Anisotropic collagen/hyaluronan 3D printed hydrogels as novel model of Annulus Fibrosus <u>S De Oliveira</u>, <u>G Mikosic</u>, <u>M D'Este</u>, <u>S Grastilleur</u>, <u>J Véziers</u>, <u>C Levisage</u>, <u>C Hélay</u> - France</p>	<p>S5-7-O5 Development of Tuneable Hyaluronic Acid Hydrogels for Transcranial Drug Delivery <u>M Al-wazeel</u>, <u>L Ricciardi</u>, <u>S Klaner</u>, <u>J Hampson</u>, <u>SM Saldana</u>, <u>U Fitzgerald</u>, <u>P Ponsaerts</u>, <u>M Verhoye</u>, <u>N Quinlan</u>, <u>A Pandit</u> - Ireland</p>

Wednesday September 6th

<p>5:30 pm</p>	<p>Debate continues</p>	<p>S5.2-O4 Using acoustofluidics for continuous patterning of cells for musculoskeletal tissue engineering <u>DV Deshmukh</u>, P Reichert, J Zwick, C Labouesse, V Kunzli, O Dudaryeva, O Bar-Nur, J Dual, MW Tibbitt - Switzerland</p>	<p>S5.3-O4 Synthetic and extracellular matrix (ECM)-based hydrogels enable translational precision medicine for patient-derived breast cancer organoids <u>N.Boek</u>, F Forouz, L Hipwood, J Clegg, P Jeffery, M Gough, T van Wyngaard, C Pyke, MN Adams, LJ Bray, L Croft, EW Thompson, T Kryza, C Meinert - Australia</p>	<p>S5.4-O4 Acoustic holographic bioassembly for tissue engineering <u>M Shi</u>, K Meide, P Fischer - Sweden</p>	<p>S5.5-O6 A Self-assembly Combined Nanoproducing to Overcome Gemcitabine Chemoresistance of Pancreatic Tumors <u>Z Yao</u>, Q Hu, B Li, Y Ping, T Liang - China</p>	<p>S5.6-O2 In situ forming macroporous hydrogel for nucleus pulposus cell delivery <u>Al Brissenden</u>, <u>BG Amsden</u> - Canada</p>	<p>S5.7-O6 Delivery of GSDMD-N mRNA with engineered PBAE nanoparticles to boost anticancer immunity as pyroptosis induced in situ tumor nanovaccine against pancreatic cancer <u>S. Shao</u>, M Wang, J Huang, Q Hu, T Liang - China</p>
<p>5:45 pm</p>		<p>S5.2-O5 Rapid 3D assembly of particles and cells using holographic sound fields <u>K Meide</u>, H Kremer, <u>M Shi</u>, S Seneca, P Fischer - Germany</p>	<p>S5.3-O5 Decellularized nucleus pulposus-based hydrogel: from decellularization scale-up to biocompatibility evaluation <u>I Sousa</u>, M Fioralisi, <u>Al Castro</u>, MA Barbosa, RM Goncalves, J Caldeira - Portugal</p>	<p>S5.4-O5 Self-Assembly Driven Smart Biomimetic 3D-Printed Hybrid Aerogel-based Regenerative Scaffolds for Bone Regeneration and Bone Cancer Therapy <u>H Maleki</u> - Germany</p>	<p>S5.5-O7 Retinoic acid nanoparticle formulation for in situ haematopoietic stem cell niche modulation <u>R Pires das Neves</u>, E Quattri, S Gonzalez-Anton, L Mosteo Lopez, S Rosa, V Fransisco, D Duarte, C Lo Celso, L Ferreira - Portugal</p>	<p>S5.6-O3 Artificial extracellular matrices to regulate nucleus pulposus regeneration <u>G Thiruvikraman</u>, T Kaur, S Natesan - India</p>	<p>S5.7-O7 Heparin-RBD Complex in Multilayered Polymeric Particles Enhances Induction of Serum Antibodies and Induces Protective Immunity Against SARS-CoV-2 <u>G Delechiave</u>, MO Silva, MF Castro-Amarante, DEM Camarena, AA Venoeslau-Carvalho, LCS Ferreira, LH Catalani - Brazil</p>
<p>6:00 pm</p>	<p>Rapid Fire PoB. 14.01 PoB. 16.21 PoB. 10.13 PoB. 5.02 PoA. 17.03</p>	<p>Rapid Fire PoB. 9.12 PoB. 16.30 PoB. 22.14 PoB. 1.12 PoB. 16.39</p>	<p>Rapid Fire PoB. 15.21 PoB. 13.11 PoB. 18.03 PoB. 16.42 PoA. 15.08</p>	<p>Rapid Fire PoB. 12.01 PoB. 23.09 PoB. 15.01 PoB. 23.12</p>	<p>Rapid Fire PoB. 10.02 PoB. 4.13 PoB. 4.10 PoA. 10.20</p>	<p>Rapid Fire PoB. 10.01 PoB. 15.04 PoB. 16.24 PoB. 15.09</p>	<p>Rapid Fire PoB. 13.16 PoB. 1.28 PoB. 23.07 PoB. 10.17 PoA. 6.09</p>

Wednesday September 6th

6:15 pm	Poster Session B
7:15 pm	Dinner served at the conference center and YSF night out

Thursday September 7th

Thursday, September 7

	A Davos	C Sanada	C Aspen	B Pischal/Parseim	A Schwarzhorn	A Seehorn	A Wissihorn
8:15 am	Plenary Lecture - Jason Burdick Advances in Suspension Bath Printing to Process Biomedical Materials Chairs: Matteo Deste, David Eglin						
9:00 am	ESB KdG Award - Joelle Armedee Vilamitiana Composite Polymers for Bone Tissue Engineering: Why and how to stimulate vascularization and innervation of the bone tissue? Chairs: Karine Anselme, Aldo Boccacini, Elizabeth Tanner						
9:45 am	Coffee Break & Posters & Exhibition Area						
10:45 am	ESB GA						
11:45 am 12:15 pm	Lunch & Posters						

Thursday September 7th

<p>12:45 pm 2:15 pm</p>	<p>Parallel session</p>	<p>Engineering Hydrogels to Mimic Tissue Architecture Mark Skylar-Scott</p> <p>Chairs: Anna Pulgall-Jou, Doris Zauchner</p>	<p>SSB+RM meets ESB: Biofabrication and biomaterials for next-generation microphysiological systems Roger Kamm</p> <p>Chairs: Martin Ehnbar, Matteo Moretti</p>	<p>Biologically inspired polymers Marleen Kamperman</p> <p>Chairs: Annalisa La Gatta, Tina Vermonden</p>	<p>Biomaterials for infection management Andras Stavropoulos</p> <p>Chairs: Eleana Kontonasaki, Georgia Pourouzidou</p>	<p>BBCe - Scaffold for bone regeneration Elzbieta Pamula</p> <p>Chairs: Kristine Salma Acare, Dagnija Loca</p>	<p>Functional polymers Michael Monaghan</p> <p>Chairs: Jeroen Leijten, Katharina Maniura</p>	<p>Magnetic systems for regenerative medicine Claire Wilhelm</p> <p>Chairs: Rui MA Domingues, Manuela Gomes</p>
<p>12:45 pm</p>	<p>Mechanically-Tunable Wholly-Cellular Bioinks for Large-Scale Scaffold-Free Biomanufacturing J Du, S Lee, S Sinha, M He, DLL Ho, JP Sampson, Q Wang, T Tam, <u>MA Skylar-Scott</u> - USA</p>	<p>Vascularized models of in vitro tissues and organs and their generation from pluripotent cells <u>RD Kamm</u> - USA</p>	<p>Bioinspired Polyelectrolyte Materials: From Biomedical Adhesives to Inks for 3D Bioprinting <u>M Kamperman</u> - Netherlands</p>	<p>Peri-implant infections in the oral environment and implant surface functionalization <u>A Stavropoulos</u> - Sweden</p>	<p>Biomaterials for bone tissue engineering and lesions treatment – scaffolds, matrices and templates <u>E Pamula</u> - Poland</p>	<p>Electro Conductive Biomaterials - Application of Conductive Polymers and 2D Nanomaterials in tissue and sensor applications <u>MG Monaghan</u> - Ireland</p>	<p>Magnetic tissue engineering <u>C Wilhelm</u> - France</p>	
<p>1:15 pm</p>	<p>S6.1-O1 Volumetric Printing across Melt Electrowritten Scaffolds Fabricates Multi-Material Living Constructs with Tunable Architecture and Mechanics <u>G Grötsbacher</u>, M Bartolf-Kopp, C Gegeley, PN Bernal, S Florczak, M de Ruijter, J Groll, J Maiba, T Jungst, R Levato - Netherlands</p>	<p>S6.2-O1 Sound patterning of microcapillary networks for establishing a guided peripheral neurovascular system model <u>N DI Marzio</u>, E Neto, M Alini, M Lamghari, T Serra - Switzerland</p>	<p>S6.3-O1 Complex Coacervates of oppositely charged, intrinsically disordered polypeptides with LCST behavior <u>J Fernández-Fernández</u>, S Acosta Rodriguez, M Alonso Rodrigo, JC Rodriguez-Cabello - Spain</p>	<p>S6.4-O1 Dual-Function peptide decorated nanoparticles to fight infection and promote angiogenesis in skin chronic wounds <u>PM Alves</u>, DR Fonseca, SJ Bidarra, A Gomes, CC Barrias, P Gomes, MCL Martins - Portugal</p>	<p>S6.5-O1 NFA-Europe Pilot: a great research and innovation opportunity for the European and worldwide biomaterials community! <u>F Carstuddt</u> - Germany</p>	<p>S6.6-O1 Bio-Orthogonal Double-Crosslinked Alginate-Gerlatin/MXenes Hydrogels as Biomimetic Viscoelastic and Electroconductive Substrates Supporting Cardiac Regeneration <u>D Testore</u>, A Zoso, C Paoletti, S Groppo, E Marcello, A Rattierad, S Dhingra, V Chiono - Italy</p>	<p>S6.7-O1 Mechanotransduction in Magnetic Hydrogels: a hollow magnetic electrospun scaffold for hydrogel stiffening <u>W Chen</u>, PHJ Kouwer, L Moroni - Netherlands</p>	

Thursday September 7th

<p>1:30 pm</p>	<p>S6.1-O2 An architected mechano-hybrid-scaffold induces endogenous healing of critical size bone defects in small and large animals A.Petersen, A Herrera, H Leemhuis, A Ellinghaus, K Schmidt-Bleek, M Tortorici, C Gayer, G Korus, GN Duda - Germany</p>	<p>S6.2-O2 Microfluidic platforms to optimize granular hydrogel microenvironments for tissue regeneration LA Krattiger, DB Enrioglio, S Pravato, OA Bachmann, LO Moser, S La Cioppa, R Odabasi, AJ deMello, MW Tibbitt, M Ehrbar - Switzerland</p>	<p>S6.3-O2 3D Printable Dynamic Hydrogel: As simple as it gets! D.Dubin, H Herrada-Manchon, MA Ferrandez, J Nunes - Spain</p>	<p>S6.4-O2 Biocompatible photothermal-responsive plasmonic nanocomposites for near infrared-activated bacterial eradication C.Rinoldi, MA Haghighat Bayan, D Rybak, P Nakielski, F Pierini - Poland</p>	<p>S6.5-O2 Surface morphology and dynamic changes in the element distribution in the corrosion layer induced by direct monocolture and co-culture models of osteoblasts (OBs) and osteoclasts (OCs) on pure Mg and WE43 alloy DC Martinez, A Borkarn-Schuster, H Helmholz, B Luthringer-Feyerabend, T Plocinski, R Willumeit-Römer, W Świąszkowski - Poland</p>	<p>S6.6-O2 Conjugated polymers enable optical fine tuning of intracellular reactive oxygen species in Human Umbilical Vein Endothelial Cells C Marzulli, G Tullii, C Ronchi, L Bondi, M Malferrari, S Rapino, T Cramer, MR Antognazza - Italy</p>	<p>S6.7-O2 Melt electrowriting of magneto-active fiber scaffolds for skeletal muscle cell stimulation in vitro G.Cedillo-Servin, O Dahri, J Meneses, J van Duijn, F Sage, J Silva, A Pereira, FD Magalhães, J Malda, N Geijssen, AM Pinto, M Castillo - Netherlands</p>
<p>1:45 pm</p>	<p>S6.1-O3 Influence of Acid Type and pH on Lyophilised Collagen I Scaffold Architecture RBA Lester, RE Cameron, SM Best - United Kingdom</p>	<p>S6.2-O3 3D printing-based vascularized in vitro skin equivalent for investigating diabetic chronic wounds K Yang, D Ibrink, K Wei, K Maniura, M Rotmar - Switzerland</p>	<p>S6.3-O3 Instructing immune system via structurally programmable tyramine-modified self-assembling β-sheet peptides and hyaluronic acid hydrogels JK Wychowaniec, E Irem Bekas, AJ Vernengo, CJC Edwards-Gayle, M Mürner, J Teo, D Egin, M D'Este - Switzerland</p>	<p>S6.4-O3 Antibacterial properties of multiple antigenic peptides (MAP) based on polyarginine: from experiments to molecular dynamic simulations E Lebaudy, L Petit, E Nihal Vrana, F Barbaut, P Lavalle - France</p>	<p>S6.5-O3 Biomimetic micro- and nano-scale surface features produced by femtosecond laser-texturing enhance T1Zr implant osseointegration in vitro and in vivo WA Lackington, B Bellon, P Schweizer, A Ambeza, AL Chopard-Lallier, A Armutulu, P Schmutz, X Maeder, M Rotmar - Switzerland</p>	<p>S6.6-O3 Controlling the architecture of freeze-dried collagen scaffolds with ultrasound-induced nucleation X Song, MA Philippot, SM Best, RE Cameron - United Kingdom</p>	<p>S6.7-O3 Magnetic Implants for Tissue Engineering: Novel Therapeutic Strategy for In Situ Bone Regeneration LF Santos, MC Mendes, I Dias, C Viegas, CO Amorim, JS Amaral, HU Haugen, AS Silva, JF Manno - Portugal</p>

Thursday September 7th

<p>2:00 pm</p>	<p>S6.1-O4 New understanding of type I collagen dense phases for the elaboration of biomimetic materials L Martinier, F Fage, G Mosser, P Davidson, L Trichet, FM Fernandes - France</p>	<p>S6.2-O4 Printing the Intervertebral Disc: A Hyaluronan-Collagen Bioink Analogue of the Nucleus Pulposus G Miklosic, S De Oliveira, S Grasilleur, C Le Visage, C Hélay, SJ Ferguson, M D'Este - Switzerland</p>	<p>S6.3-O4 Optimization of hydrogel crosslinking chemistry for developing hyaluronic acid-based bioink OP Varghese, S Tavakoli, C Leilopoulos, H Mokhtari - Sweden</p>	<p>S6.4-O4 Assessment of biomaterials with new antimicrobial surfaces for dental applications E Bessot JB Tommasino, L Bois, L Heinrich-Balard, L Grenillard, S Tadier, N Attik - France</p>	<p>S6.5-O4 Interpenetrating Network Hydrogels for Studying the Role of Matrix Viscosity in 3D Osteocyte Morphogenesis M Bertero, D Zauchner, R Müller, XH Qin - Switzerland</p>	<p>S6.6-O4 Rapid regeneration of a neartery with elastic lamellae in a tropoelastin-polyglycerol sebacate small-diameter vascular graft Z Wang, S Mitheux, H Vindin, Y Wang, L Liu, T Yi, K Blum, J Zbinden, Y Matsuzaki, N Pham, B Hawke, T Shinoka, C Breuer, A Weiss - Australia</p>	<p>S6.7-O4 Designing a hydrogel for mimicking nervous tissue: development, optimization and application S Kuhl, Aldo R Boccacini - Germany</p>
<p>2:30 pm</p> <p>Parallel session 7</p>	<p>Advanced biotrabrication techniques Chairs: Yvanney Delplace, Milna Petrovic</p>	<p>SSB+RM meets ESB: Programmable Biomaterials Maartje Bastings Chairs: Lisa Krattiger, Jess Snedeker</p>	<p>Structured hydrogels for advanced 3D models Tina Vermonden Chairs: Helena Azevedo, Julien Gauriot</p>	<p>Biomaterials for neural regeneration Laura De Laporte Chairs: Zaida Alvarez, Elisabeth Engel</p>	<p>BBCe - MSCs and osteogenesis John E Davies Chairs: Elena Della Bella, Arta Dubnika</p>	<p>Extracellular vesicles bioengineering Miguel Lino Chairs: Arnab Banerjee, Miguel Lino</p>	<p>Multimodal nanobiomaterials for TERM Manuela Teresa Raimondi Chairs: Joaquin Miguel Oliveira, Valentina Onesto</p>
<p>2:30 pm</p>	<p>S7.1-K1 Shining a New Light on Cells and Materials: Biofabrication of Multi-Component Synthetic and Functional Tissues R Levato - Netherlands</p>	<p>S7.2-K1 Multivalency as Geometric Puzzle: Engineering (super)selectivity at the biointerface with DNA MMC Bastings - Switzerland</p>	<p>S7.3-K1 Responsive Hydrogels for High Resolution 3D Printing M Viola, G di Marco, J van Trijp, T Sampson, P Nunez Bernal, M Falandt, CF van Nostrum, BGP van Ravensteijn, R Levato, M Neumann, I Vermonden - Netherlands</p>	<p>S7.4-K1 Soft Colloidal Building Blocks to Overcome Limitations in Tissue Engineering L De Laporte - Germany</p>	<p>S7.5-K1 Drivers of Early Peri-Implant Endosseous Healing JE Davies - Canada</p>	<p>S7.6-K1 Engineered extracellular vesicles for tissue regeneration MM Lino - Portugal</p>	<p>S7.7-K1 Frontier platforms for experimental cell modelling MT Raimondi - Italy</p>

Thursday September 7th

<p>3:00 pm</p>	<p>S7.1-O1 Acoustic patterning of three dimensional osteo-inductive constructs. <u>R.Tognato</u>, J Ma, S Jahanfir, MJ Stoddart, M Alini, G Richards, R Levato, R Parolini, S Florezak, T Serra - Switzerland</p>	<p>S7.2-O1 Hydrogel biointerfaces with spatiotemporal control over gel properties <u>J.Malmström</u>, A Chalard M Horrocks, H Porritt, K Zhurenkov - New Zealand</p>	<p>S7.3-O1 3D microfluidic bioprinting of foamed fibres for hierarchical fabrication of skeletal substitutes <u>E.Serpe</u>, F Nalin, P Posabella, J Jaroszewic, M Marcorulli, M Ce Tirelli, Nehar Celikkin, A Viswanath, W Swieszkowski, CM Casciada, G Ruocco, M Costantini, C Scognamiglio, G Cidonio - Italy</p>	<p>S7.4-O1 The "shuttles" to neuroprotection: Biodegradable dendrimers as delivery vectors in the context of stroke <u>M.Torrado</u>, D Silva, V.Leiro, SD Santos, AP Pêgo - Portugal</p>	<p>S7.5-O1 A Redox Active Hydrogel with Antioxidant, ROS scavenging and Osteogenic Properties for Osteoporotic Bone Repair <u>K.Kaur</u>, CM Murphy - Ireland</p>	<p>S7.6-O1 Injectable thermosensitive hydrogel for cardiac delivery of therapeutics <u>C.Casadio</u>, J Fang, MHAM Fens, R Censi, J Stijler, R Schiffelers, Z Lei, T Vernonden - Netherlands</p>	<p>S7.7-O1 Unlocking the potential of amphiphilic cyclodextrin nanoparticles: Tailoring molecular composition for controlled drug release <u>F.Bretner</u>, J Schreiner, <u>S.Vogel-Kindgen</u>, M Windbergs - Germany</p>
<p>3:15 pm</p>	<p>S7.1-O2 Liver-inspired Artificial Cells for Communication and Bioprinting <u>LNyman</u> <u>Westensee</u>, L Parfen, B Stadler - Denmark</p>	<p>S7.2-O2 Scalable Biomimetic Bone Marrow Model Promoting Stemness and Expansion of Hematopoietic Stem Cells <u>M.Bosch-Forcia</u>, D Marclano, J Gautrot - United Kingdom</p>	<p>S7.3-O2 Mimicking the extra-cellular matrix of arteries: an ice-templating approach <u>LMartinier</u>, M Bouabdallah, F Fage, A Castagnino, A Barakat, L Trichet, FM Fernandes - France</p>	<p>S7.4-O2 Multicellular Dorsal Root Ganglion System Assembled Using Hydrodynamic Forces to Study Disc Nerve Ingrowth <u>J.Ma</u>, R Tognato, J Eglau, S Grad, M Alini, T Serra - Switzerland</p>	<p>S7.5-O2 3D Cryoprinted Sodium Alginate Scaffolds Impregnated With Plasmid DNA For Enhanced Bone Regeneration <u>MA Khvorostina</u>, AV Mironov, AV Vasilyev, TB Bukharova, VS Komlev, VK Popov - Russian Federation</p>	<p>S7.6-O2 Combining MSC exosomes and HA for TMJ-OA: A promising rabbit study <u>S.Zhang</u>, Y Jiang, T J Han Sng, R Chai Lai, S Kiang Lim, W Seong Toh - Singapore</p>	<p>S7.7-O2 Design of novel ionizable amino-polyester lipid nanoparticles for potent tissue-selective mRNA delivery <u>A.López-Espinar</u>, L Mulder, M Elkhastab, S Vucen, P Kowalski - Ireland</p>

Thursday September 7th

<p>3:30 pm</p>	<p>S7.1-O3 PEGyraphene oxide hydrogels: from 2D material characterization to a FRESH approach on 3D printing vascular grafts HP Ferreira, MC Decarli, D Moura, AT Pereira, CC Barras, FD Magalhães, IC Gonçalves, L Moroni - Portugal</p>	<p>S7.2-O3 Biomimetic platforms for in vitro cell growth and biomedical applications: towards precision medicine S Forciniti, V Onesto, N Silvestri, S Hootheiri, C Camargo de Oliveira, T Pellegrino, L del Mercato - Italy</p>	<p>S7.3-O3 Instructing Engineered Living Microcomposite Tissues from within using Stimuli-responsive Cell-adhesive Micromaterials N Willemsen, T Kamperman, C Keider, M Koerseelman, M Becker, M Karperien, J Leijten - Netherlands</p>	<p>S7.4-O3 Self-Assembling glycopeptide hydrogels for neuronal differentiation VIB Castro, AR Araújo, F Duarte, A Sousa-Franco, RL Reis, I Paskuleva, RA Pires - Portugal</p>	<p>S7.5-O3 3D-Printed Composite Scaffolds Combining Hyaluronan, Collagen and Osteoinductive Calcium Phosphate to Promote Bone Regeneration D van der Heide, LP Hart, E Della Bella, H Yuan, F de Groot-Barrère, MJ Stoddart, M D'Este - Switzerland</p>	<p>S7.6-O3 Engineering extracellular vesicles to cross the blood-brain barrier E Tomatis, S Simões, S Rosa, M Barão, E Barth, M Marz, L Ferreira - Portugal</p>	<p>S7.7-O3 The potential of poly(dopamine nanoparticles as a treatment against hepatic steatosis A Calmigliani, M Battaglini, G Ciofani - Italy</p>
<p>3:45 pm</p>	<p>S7.1-O4 Injectable Hydrogels Reinforced with Structures obtained through Melt Electrowriting D Trucco, R Gibney, L Vannozzi, G Lisignoli, DJ Kelly, L Ricotti - Italy</p>	<p>S7.2-O4 Modelling and experimental characterisation of auxetic mesh geometric parameters for tissue engineering substrate straining G Wei, FA Birks, SM Best, RE Cameron - United Kingdom</p>	<p>S7.3-O4 Improving mesenchymal stem cell function and survival via silencing tissue factor genes or extracellular matrix coating QP Oommen, V Kumar Rangasami - Finland</p>	<p>S7.4-O4 The effect of bioactive scaffolds with enhanced supramolecular motion on neuronal regeneration and modeling Z Alvarez, JA Ortega, K Sato, JR Sasselli, E Engel, SI Slupp, E Kiskinis - USA</p>	<p>S7.5-O4 Modulation of environmental osmolality as cue to guide mesenchymal stromal cell osteogenic differentiation in 3D viscoelastic hydrogels MR Kollerit, TH Qazi, M Phan, B Malchirzycka, DM Ibrahim, V Vogel, DJ Mooney, GN Duda - Germany</p>	<p>S7.6-O4 Local delivery of si-TNF-α-laden exosomes using a core-sheath 3D-bio-printed scaffold as a fast-degradable wound dressing S Vakiliian, F Jamsnidi-Adegnani, F Al-Fahdi, J Al-Kindi, S Al-Hashmi - Oman</p>	<p>S7.7-O4 Nanoparticle-mediated silencing of Connexin43 to destabilise scar-forming cells after spinal cord injury MK Stasiewicz, A Dervan, FJ O'Brien - Ireland</p>
<p>4:00 pm</p> <p>Coffee Break & Posters & Exhibition Area</p>							
<p>4:45 pm 6:15 pm</p> <p>Parallel session 8</p>	<p>SBB+RM meets ESB: Beyond the bench: translating research into clinics and industry Florian Thieringer</p> <p>Emerging biofabrication strategies for engineering bioactive tissue constructs Joao Mano</p> <p>Beyond the Earth's Horizon: Biofabrication in space Lorenzo Moroni & Rodrigo Coutinho de Almeida</p> <p>Synthetic biology and AI Michael Levin</p> <p>Functional biomaterials for musculoskeletal tissues regeneration Kamal Mustafa</p> <p>Advanced in vitro models: from organ-on-chips to advanced 3D architectures Gianni Ciofani</p> <p>Chairs: Michael de Wild, Anna Marsano Chairs: Joanna Babiłoite, Catarina Custódio Chairs: Jeremy Teo, Jacek Wychowaniec Chairs: Daniel Hutcheon, Michal Malkoch Chairs: Gianni Ciofani, Attilio Marino</p>						

Thursday September 7th

4:45 pm	<p>S8.2-K1 Title TBD Florian Thieringer - Switzerland</p>	<p>S8.3-K1 New biolinks from natural-based polymers and new bioprinting strategies to develop 3D constructs for tissue engineering JF Mano - Portugal</p>	<p>S8.4-K1 What Can biofabrication do for space and what can space do for biofabrication? L Moroni - Netherlands</p>	<p>S8.5-K1 Engineering with endogenous bioelectric circuits as the interface to reprogramming the software of life M Levin - USA</p>	<p>S8.6-K1 From bench to chairside: Mesenchymal stem cells and biomaterial engineering in bone regeneration KE Mustata - Norway</p>	<p>S8.7-K1 Real-scale models of the brain cancer microenvironment G Ciofani - Italy</p>
5:15 pm	<p>S8.2-O1 Personalized reconstruction of cleft palate deformities in dog patients with innovative 3D-printed organo-mineral cements P Maitre, L Guyon, N Touya, P Corre, J Veziers, M Dutilleul, P Weiss, O Gauthier, B Charbonnier - France</p>	<p>S8.3-O1 Flight Biofabrication of Anisotropic Articular Cartilage to provide Enhanced Mechanical Properties A Puliggali-Jou, R Rizzo, A Bonato, P Fisch, M Zenobi-Wong - Switzerland</p>	<p>S8.4-K2 ESA's initiative on culturing 3D systems on the ISS R Coutinho de Almeida - Netherlands</p>	<p>S8.5-O1 Engineered Living Materials for light-induced synthesis of β-carotene L Sabio, A Rodrigo-Navarro, M Salmeron-Sanchez - United Kingdom</p>	<p>S8.6-O1 Investigating the regenerative potential of 3D-printed PLLGA/Alginate composite scaffolds for the treatment of articular cartilage defects AG Dastidar, SA Clarke, F Buchanan, E Larranaga, S Rana, DJ Kelly, K Manda - United Kingdom</p>	<p>S8.7-O1 Towards a dynamic in vitro model of the intestine using smart hydrogels C Spangenberg, T Schwalm, J Schroeller, F IteI, G Herwig, S Campioni, RM Rossi, K Maniura, M Rottmar, Y Chandorkar - Switzerland</p>
5:30 pm	<p>S8.2-O2 Fully implantable Intraspinal Microstimulation Device for Swine Models S Mirkiani, D Wilson, N Tyerman, C Tsui, CL O'Sullivan, KG Todd, R Fox, PR Troyk, VK Mushahwar - Canada</p>	<p>S8.3-O2 Handheld bioprinting of click hydrogels for wound healing N Contessi, Negri, D Al-Ansari, A Makrypidis, R Correia, G Ferrari, S Kholia, D Wales, M Sesen, C Emanueli, A Ceilz - United Kingdom</p>	<p>S8.5-O2 AI designed Modular Recombinant self-assembly protein system as Viral Entry Blocker for Pandemic Prevention HH Pang, NS Li, YP Hsu, HW Yang - Taiwan</p>	<p>S8.6-O2 Pre-vascularized hMSC and hPDC spheroids for Bone Tissue Engineering and their Potential as Building Block Units for 3D Bioprinting E Teixeira, V Joris, M van Griensven, L Moroni, C Mota - Netherlands</p>	<p>S8.7-O2 Development of 3D cell-printed tissue-specific type 2 diabetes multiple-organ on-a-chip model applicable to diabetes complications JJ Kim, JY Park, J Jang, JY Won, DW Cho - Republic of Korea</p>	

Thursday September 7th

5:45 pm		<p>S8.2-O3 Full Insulin independence after transplantation of 3D bionic pancreas tissue petals – large animals results <u>M.Wszola</u>, <u>M.Klak</u>, <u>A.Berman</u>, <u>O.Janowska</u>, <u>D.Ujazdowska</u>, <u>S.Domański</u>, <u>T.Dobrzański</u>, <u>D.Szkopek</u>, <u>A.Filip</u>, <u>K.Roszkowicz</u>, <u>Ostrowska</u>, <u>A.Kondej</u>, <u>J.Wojński</u>, <u>A.Kamiński</u>, <u>A.Dobrzyń</u> - Poland</p>	<p>S8.3-O3 Enzyme-living hydrogel: a novel approach to create custom-sculptured channels in tissue mimetic hydrogels <u>MC.Mendes</u>, <u>AS.Silva</u>, <u>JF.Mano</u> - Portugal</p>	<p>S8.4-O1 Storability of cell-laden bioinks for applications in space <u>J.Windsch</u>, <u>O.Reinhardt</u>, <u>S.Duin</u>, <u>K.Schutz</u>, <u>NU.Nova Rodriguez</u>, <u>S.Liu</u>, <u>A.Lode</u>, <u>M.Gellinsky</u> - Germany</p>	<p>S8.5-O3 Assessing Biomaterial-Induced Stem Cell Lineage Fate by Machine Learning-based Artificial Intelligence <u>Y.Zhou</u>, <u>X.Ping</u>, <u>Y.Guo</u>, <u>B.Lai</u>, <u>X.Zhang</u>, <u>X.Deng</u> - China</p>	<p>S8.6-O3 Advanced Gelatin-T-Hydrogels (GPM) Breakthrough in Biocompatibility and Strength for Biomedical Applications <u>P.Shakari</u>, <u>K.Braesch</u>, <u>MJ.Khiabani</u>, <u>M.Wohler</u>, <u>J.Hilborn</u>, <u>A.Samantia</u> - Sweden</p>	<p>S8.7-O3 Advancing tumor modeling and drug screening with a dynamic system Integrating a 3D human-based hydrogel to support spheroid invasion <u>CE.Monteiro</u>, <u>JA.Deus</u>, <u>IB.Silva</u>, <u>P.Menezes</u>, <u>IF.Duarte</u>, <u>CA.Custódio</u>, <u>JF.Mano</u> - Portugal</p>
6:00 pm		<p>S8.2-O4 Processed inverted human umbilical vessel as nerve regeneration conduit in the treatment of hand nerve section <u>L.Bardouin</u>, <u>J.Bosc</u>, <u>F.Grossetete</u> - France</p>	<p>S8.3-O4 3D Bioprinting of a Biomimetic Leaflet Scaffold for Heart Valve Repair <u>KJ.DeJesus</u>, <u>Morales</u>, <u>U.Santosa</u>, <u>WE.Davis</u> - USA</p>	<p>S8.4-O2 3D collagen hydrogel system to study the effects of microgravity on immune cells <u>JCM.Teo</u>, <u>M.ElGindi</u> - United Arab Emirates</p>	<p>S8.5-O4 Machine learning based prediction of immunomodulatory properties of polymers towards a faster and easier development of anti-inflammatory <u>A.Akkache</u>, <u>L.Clavier</u>, <u>P.Lavalle</u>, <u>N.Engin Vrana</u>, <u>V.Gribova</u> - France</p>	<p>S8.6-O4 An osteochondral bio-engineered model mimicking osteoarthritis in vitro <u>A.Scalzone</u>, <u>G.Cerqueni</u>, <u>M.Mattoli</u>, <u>Belmonte</u>, <u>XN.Wang</u>, <u>AM.Ferreira-Duarte</u>, <u>A.Dalgarno</u>, <u>P.Gentile</u> - United Kingdom</p>	<p>S8.7-O4 Vasculatized Liver Tumor Model for Endovascular Embolic Agents Testing <u>HT.Nguyen</u>, <u>Z.Tiráková</u>, <u>N.Barros</u>, <u>N.Falcone</u>, <u>M.Mecwan</u>, <u>A.Rashad</u>, <u>M.Ermis</u>, <u>DI.Khorsandi</u>, <u>A.Peirsmann</u>, <u>R.Herculano</u>, <u>AH.Najafabadi</u>, <u>MR.Dokrnezi</u>, <u>V.Jucaudi</u>, <u>A.Khademhosseini</u> - Belgium</p>
6:15 pm 7:15 am	SSB + RM GA						
7:30 pm 11:30 pm	Gala Dinner						

Friday, September 8

	A Davos	C Sanada	C Aspen	B Pischal/Parsenn	A Schwarzhorn	A Seehorn	A Wisshorn
<p>8:45 am 10:15 am</p> <p>Parallel session</p>	<p>ISBF meets ESB: Advancing Biofabrication with light-responsive biomaterials and technologies Sandra Van Vierbergh</p> <p>Chairs: Riccardo Levato, Aleksandr Ovsianikov</p>	<p>Cell-Instructional polymers Morgan Alexander Chairs: Tino Jucker, Didier Letourneur</p>	<p>Orthopaedic biomaterials Warren Grayson Chairs: Joelle Amédeé Vilanitiñana, Daphne van der Heide</p>	<p>Biologically active ion releasing biomaterials for tissue engineering Elisabeth Engel Chairs: Aldo Boccacini, Marta Miola</p>	<p>Advancing CD cultures for bridging the in vitro - in vivo gap Lia Rimondini Chairs: Andrea Coochi, Jasmina Stojkowska</p>	<p>Immunomodulatory biomaterials Chairs: Claudia Siverino, Esther Wehrle</p>	<p>Microneedles and probes Chairs: Kristaps Klavins, Mark Skylar-Scott</p>
<p>8:45 am</p>	<p>S9.1-K1 From nanoscale precision towards processing at the speed of light: A versatile photo-crosslinkable polymer platform S.Van Vierbergh, Q Thijssen, K Kolouchova, A Szabó, H Taylor, J Toombs, A Ovsianikov - Belgium</p>	<p>S9.2-K1 Cell Instructional Polymer Biomaterials MR Alexander - United Kingdom</p>	<p>S9.3-K1 Promoting Neurovascular Regeneration in Musculoskeletal Repair WL Grayson - USA</p>	<p>S9.4-K1 Unleashing the Versatility of Calcium Phosphate Nanoparticles: Extending Their Impact from Bone Repair to Diverse Applications E.Engel - Spain</p>	<p>S9.5-K1 Advances in 3D cell culture models for bridging the in vitro to in vivo gap L.Rimondini - Italy</p>	<p>S9.6-O1 Physico-chemical and biological characterization of polyelectrolyte coatings with immunoregulatory properties derived from a Bifidobacterium longum exopolysaccharide R.Bandri, C Siverino, V Barrier, L O'Mahony, D Griljma, D Eglin, TF Morlaty - Switzerland</p>	<p>S9.7-O1 Isolation and Characterizations of Multidrug-Resistant Human Cancer Cells by a Biodegradable Nano-Probe WH Meng, CW Jeff Chang - Taiwan</p>
<p>9:00 am</p>	<p>S9.1-K1 continues</p>	<p>S9.2-K1 continues</p>	<p>S9.3-K1 continues</p>	<p>S9.4-K1 continues</p>	<p>S9.5-K1 continues</p>	<p>S9.6-O2 Evaluating the Role of Protein Coatings in Modulating Neutrophil Activation on 3D Printed PCL Scaffolds E.Irem Bektas, G Miklosic, JK Wychowaniec, M D'Este - Switzerland</p>	<p>S9.7-O2 Transdermal delivery of PD-1 blocking T cells for melanoma treatment by porous microneedles TH Chen, PH Han, YH Wei - Taiwan</p>

Friday September 8th

Friday September 8th

9:15 am	<p>S9.1-O1 A Synthetic Dynamic Photoresin for Fast Volumetric Bioprinting of Functional Hydrogel Constructs <u>W.Qiu</u>, J Gehlen, M Bernero, C Gehrre, GNI Schädli, R Müller, XH Qin - Switzerland</p>	<p>S9.2-O1 Alginate-Norbornene as a versatile hydrogel platform for kidney in vitro modeling E.Petlin, S.Fagiolino, A.Rak-Raszewska, H Kearney, J.Ranis, M Baker, D.Maniglio, A.Motta, L.Moroni, CD Mota - Netherlands</p>	<p>S9.3-O1 Peptide-Hydroxyapatite Nanoparticles Loaded into a Thermoresponsive Hydrogel for Enhanced Bone Regeneration <u>NJ Dunne</u>, M Ziminska, A.Elkashif, H O'McCarthy - Ireland</p>	<p>S9.4-O1 Magnesium-based platforms as therapy for cardiovascular diseases: material optimization, biocompatibility, and immune response <u>M.Echeverría-Randón</u>, J Tabares Ocampo, YA Upegui Zapata, LM Restrepo Múnera, F Echeverría Echeverría, MH Harmen, SM Robledo - Colombia</p>	<p>S9.5-O1 It takes TWO to tango: Roadmap from concept to in vivo validation of a brain and tumor DUAL Y-f targeted nanomedicine for glioblastoma treatment C.Martins, M Araujo, A Malfanti, C Pacheco, SJ Smith, B Ucakar, R Rahman, JW Aylott, V Prêat, B Sarmiento - Portugal</p>	<p>S9.6-O3 Pro-inflammatory characterization of biomaterials using genetically modified THP-1 cells A.Kishida, H Maeda, M Hagihara, Y Hashimoto, M Kobayashi, T Kimura - Japan</p>	<p>S9.7-O3 Optimization of Post-Processing and Polymer Coating Parameters for Metallic Microneedle Arrays as an Effective Drug Delivery System via 3D Printing Technology <u>N.Sarajdžić</u>, T J Levingstone, E O'Ceirbhail, HO McCarthy, NJ Dunne - United Kingdom</p>
9:30 am	<p>S9.1-O2 Photoclickable and isotonic collagen-based matrices for rapid volumetric additive manufacturing <u>P.Chansoria</u>, M Winkelbauer, D Rüttsche, H Liu, M Zenobi-Wong - Switzerland</p>	<p>S9.2-O2 Versatile click alginate hydrogels with protease-sensitive domains as cell-responsive/instructive 3D microenvironments <u>MV Magalhães</u>, MI Neves, SJ Bidarra, L Moroni, CC Barrias - Portugal</p>	<p>S9.3-O2 A composite elastin derivative-based hydrogel designed for promoting bone formation, vascularization, and innervation: In vivo evaluation in ectopic and heterotopic models <u>M.Roque</u>, N Mahmoudi, BP Dos Santos, S Carros, S Lecormandoux, B Garbay, J Amédée - France</p>	<p>S9.4-O2 Balancing Bone Health: Regulating Osteoclasts Function with Bioactive Glass Ions in Health and Disease <u>AM Radu</u>, Y Amy Li, A Rezaei, J Turner, MF Martin, JR Jones, G Jell - United Kingdom</p>	<p>S9.5-O2 Hydrogel-based tumour microenvironments as models of vascularized Glioblastoma for validation of nanomedicines A.Bezze, G Ciardelli, C Mattu - Italy</p>	<p>S9.6-O4 Novel immune-instructive materials for tissue regeneration and wound healing <u>A.Ghaem Maghami</u> - United Kingdom</p>	<p>S9.7-O4 Microneedle-Lateral Flow Cassette Integration for Blood-Free Point-of-Care Testing of Chronic Kidney Disease During a Pandemic <u>YP Hsu</u>, NS Li, HH Pang, HW Yang, SW Kuo - Taiwan</p>

Friday September 8th

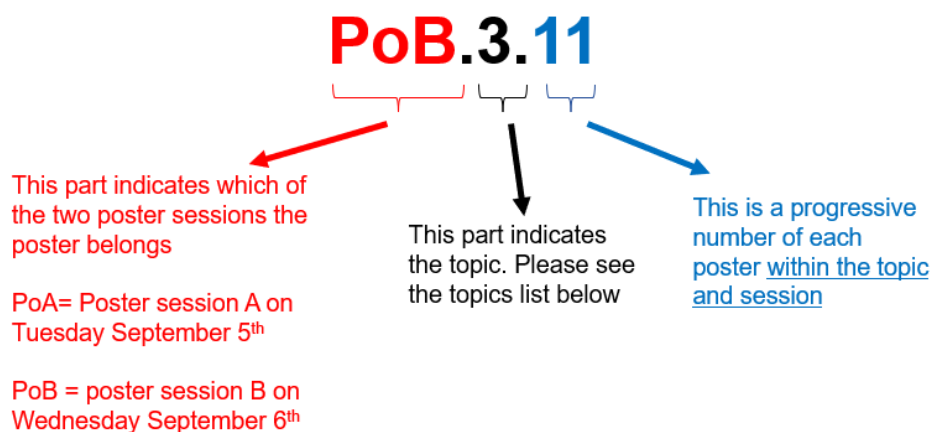
9:45 am	<p>S9.1-O3 A Flexible Alky/-modified Gelatin Photoclick Bioresin Designed for Volumetric 3D Printing of Soft Matrices for Adipose-derived Stromal Cells (ASC) and pre-differentiated Adipocytes Culture</p> <p><u>A Cianciosi</u>, S Stecher, P Bauer-Kreisel, KS Lim, TBF Woodfield, J Groll, T Blunk, T Jungst - Germany</p>	<p>S9.2-O3 Self-assembling Peptide-Hyaluronan Hydrogels as Biomimetic Cell Microenvironments</p> <p>Y Yuan, Y Shi, J Banerjee A Sadeghpour, HS Azevedo - Portugal</p>	<p>S9.3-O3 Multi-layered mechanically reinforced collagen-based scaffold promotes osteochondral repair of critical sized medial condyle defects in both young and elderly goats</p> <p><u>Clitini</u>, A Gonzalez-Vazquez, M Lemoine, LA Blokpoel, Ferreras, P Brama, FJ O'Brien - Ireland</p>	<p>S9.4-O3 Gallium-containing titanium implant to improve osteointegration in osteoporosis and bone metastasis</p> <p><u>D Piñera-Avellaneda</u>, J Buxadera-Palomero, E Rupérez, JM Manero - Spain</p>	<p>S9.5-O3 Soft microfluidics: enzymatic-crosslinked silk fibroin hydrogel lab-on-a-chip for colorectal tumor model</p> <p><u>MR Carvalho</u>, D Caballero, S Kundu, R Reis, M Oliveira - Portugal</p>	<p>S9.6-O5 The immune response to a 4D-bioprinted cartilage construct carrying an immunomodulatory nanosystem</p> <p><u>M Couto</u>, DP Vasconcelos, CL Pereira, E Neto, B Sarmiento, M Lamghari - Portugal</p>	
10:00 am	<p>S9.1-O4 4D printing of temperature-triggered shrinking hydrogels to achieve physiological dimensions for kidney tissue engineering via volumetric printing</p> <p><u>G Di Marco</u>, M Falandt, M Neumann, T Sampon, BGP van Ravensteyn, R Levato, CF van Nostrum, T Vermonden - Netherlands</p>	<p>S9.2-O4 Guiding nasal chondrocytes through 3D bioprinted design to generate an osteochondral tissue</p> <p><u>EB Tankus</u>, G Mikosic, V Basoli, A Mainardi, M D'Este, A Barbero, FM Thieringer - Switzerland</p>	<p>S9.3-O4 Piezoelectric scaffolds enhance the osteogenic differentiation of pre-osteoblastic cells by applying uniaxial compression</p> <p>NN Taveranraki, V Platana, <u>M Chaltziirikolaidou</u> - Greece</p>	<p>S9.4-O4 The impact of adsorbed fibronectin on the bioactive glass S53P4: static versus dynamic adsorption and biological response</p> <p><u>VA Gobbo</u>, VS Parihar, P Turkkı, M Prato, E Vernè, S Soriano, VP Hytönen, S Miettinen, J Massera - Finland</p>	<p>S9.5-O4 Combining tunable biomaterials and flow-based membrane technologies for improved biomanufacturing of T-cell therapies</p> <p><u>PJ LeValley</u>, K Bomb, I Woodward, Z Yun, B Sutherland, S Cassel, E Kurdzo, J McCoskey, K Levine, C Carbrello, AM Lenhoff, CA Fromen, AM Kloxin - USA</p>	<p>S9.6-O6 Modulation of the biophysical & biochemical properties of collagen by glycation for skin tissue engineering applications</p> <p><u>Mina Vaez</u>, Meisam Asgari, Laurent Bozec - Canada</p>	
10:15 am	Coffee Break & Posters & Exhibition Area						

Friday September 8th

<p>11:00 am</p>	<p>Int Award - Antonios G. Mikos Biomaterials for Tissue Engineering</p> <p>Chairs: Joëlle Arnédee Vilamiñana, Markus Rotmar, Elizabeth Tanner</p>	
<p>11:45 am</p>	<p>Closing, Awards, WBC 2024</p>	
<p>12:30 pm 01:30 pm</p>	<p>Lunch boxes</p>	

Poster Session

How to read the poster IDs



Topics are as follows

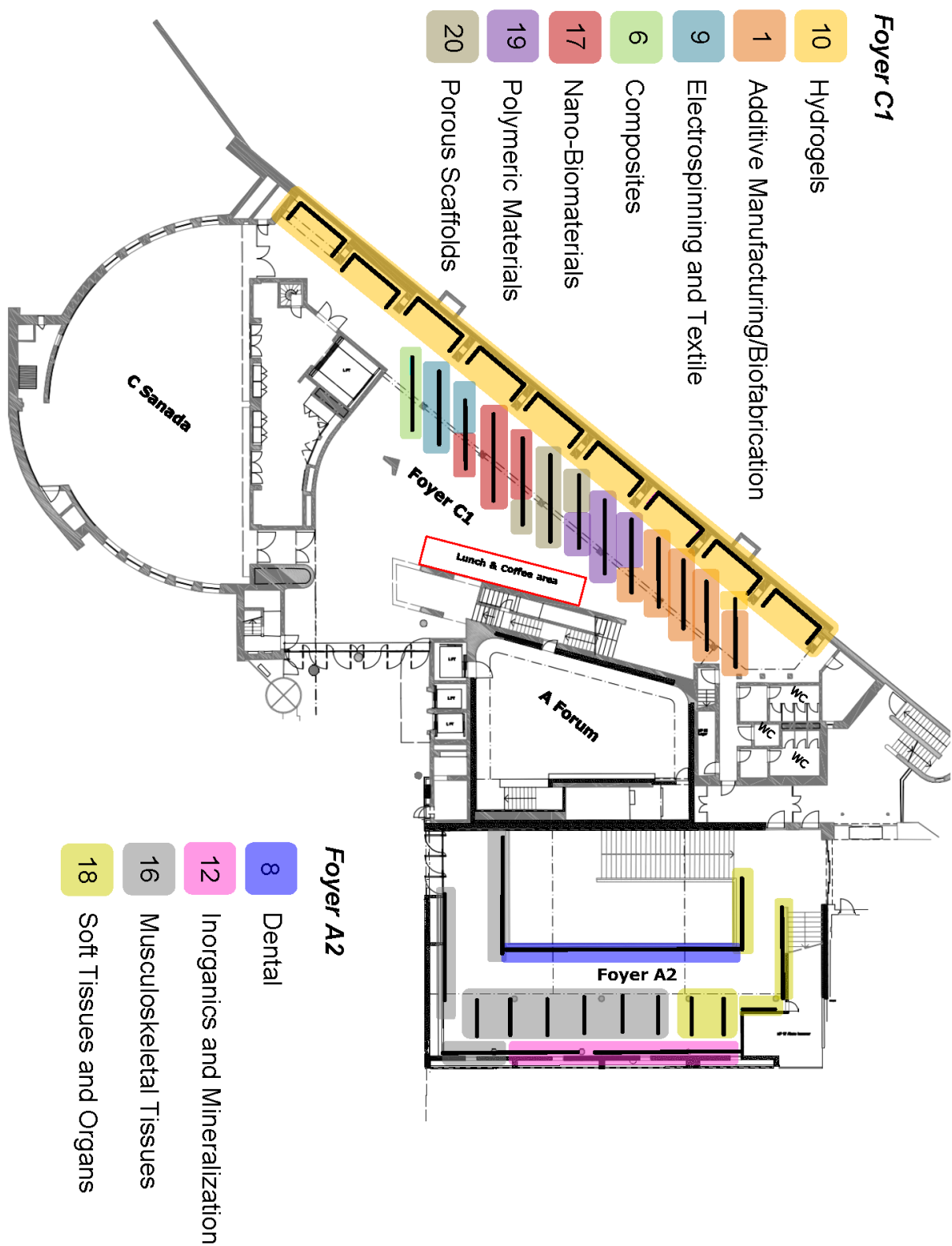
- 1 Additive Manufacturing/Biofabrication
- 2 Anti-infective strategies
- 3 Biocompatibility
- 4 Cancer
- 5 Cardiovascular
- 6 Composites
- 7 Delivery of Small and Biological Drugs
- 8 Dental
- 9 Electrospinning and textile
- 10 Hydrogels
- 11 Immunomodulation
- 12 Inorganics and mineralization
- 13 Living and Biological Materials
- 14 Medical Devices and Metal
- 15 Microenvironments /organ on chip In vitro/Engineered niche
- 16 Musculoskeletal tissues
- 17 Nano-Biomaterials
- 18 Soft Tissues and Organs
- 19 Polymeric Materials
- 20 Porous Scaffolds
- 21 Sensing
- 22 Surfaces
- 23 Unconventional Biomaterials

The areas assigned to poster presentations are:

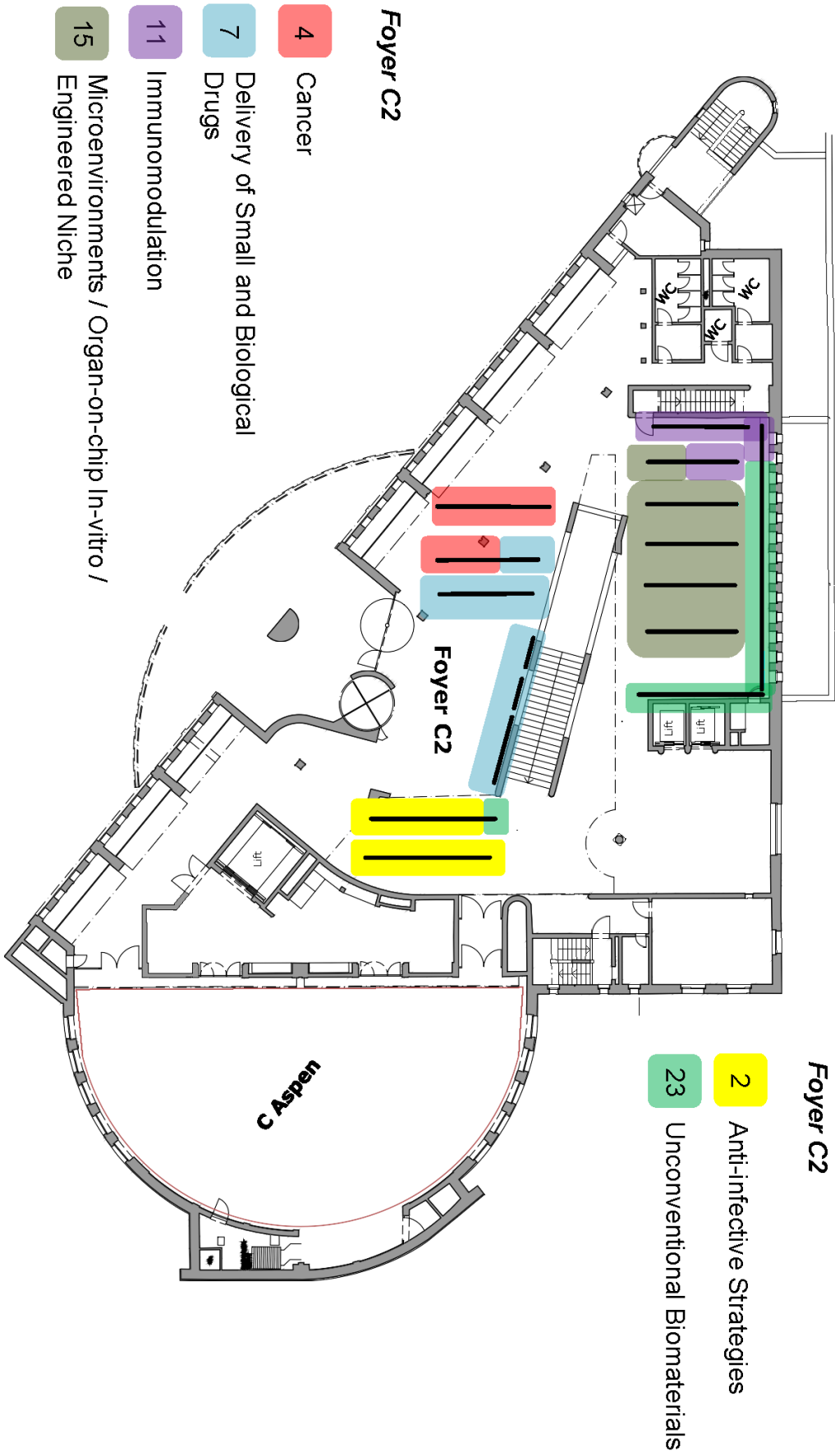
- Foyer C1: topic 1, 6, 9, 10, 17, 19, 20
 Foyer C2: topic 2, 3, 4, 7, 11, 13, 15, 23
 Foyer A2: topic 8, 12, 16, 18
 Altein/Ducan: topic 5, 14, 21, 22

Poster Sessions Maps

Session A - Tuesday September 5th



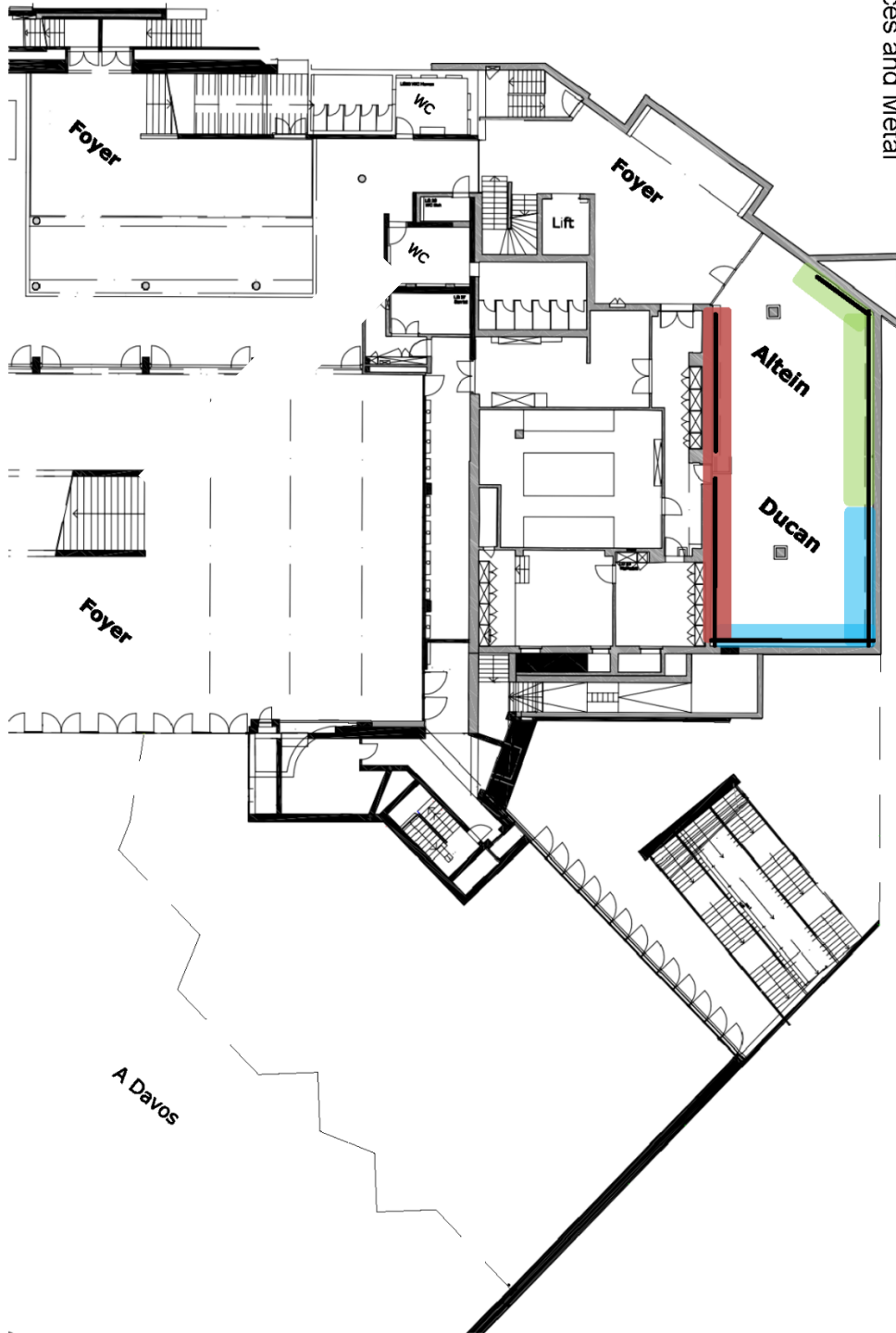
Session A - Tuesday September 5th

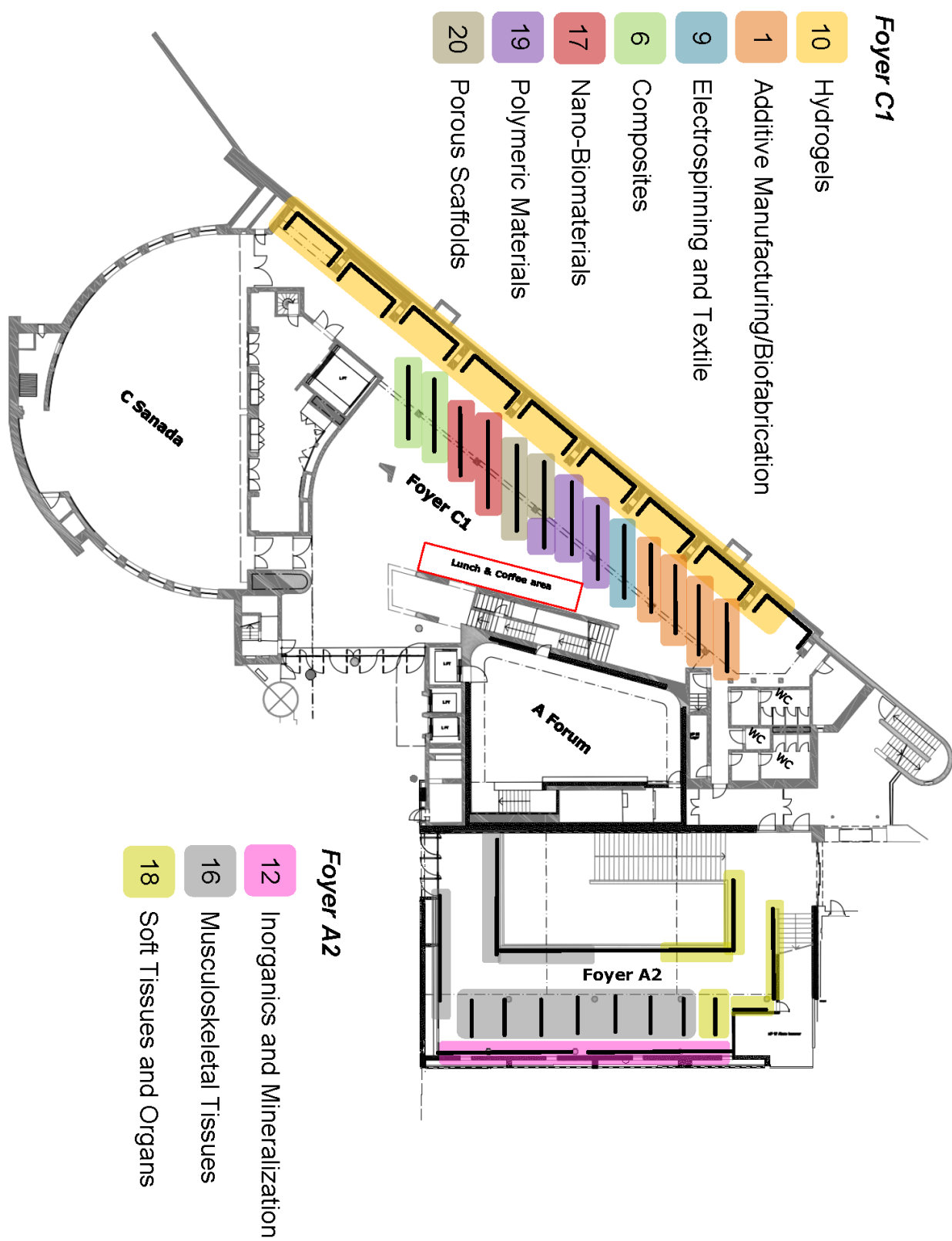


Session A - Tuesday September 5th

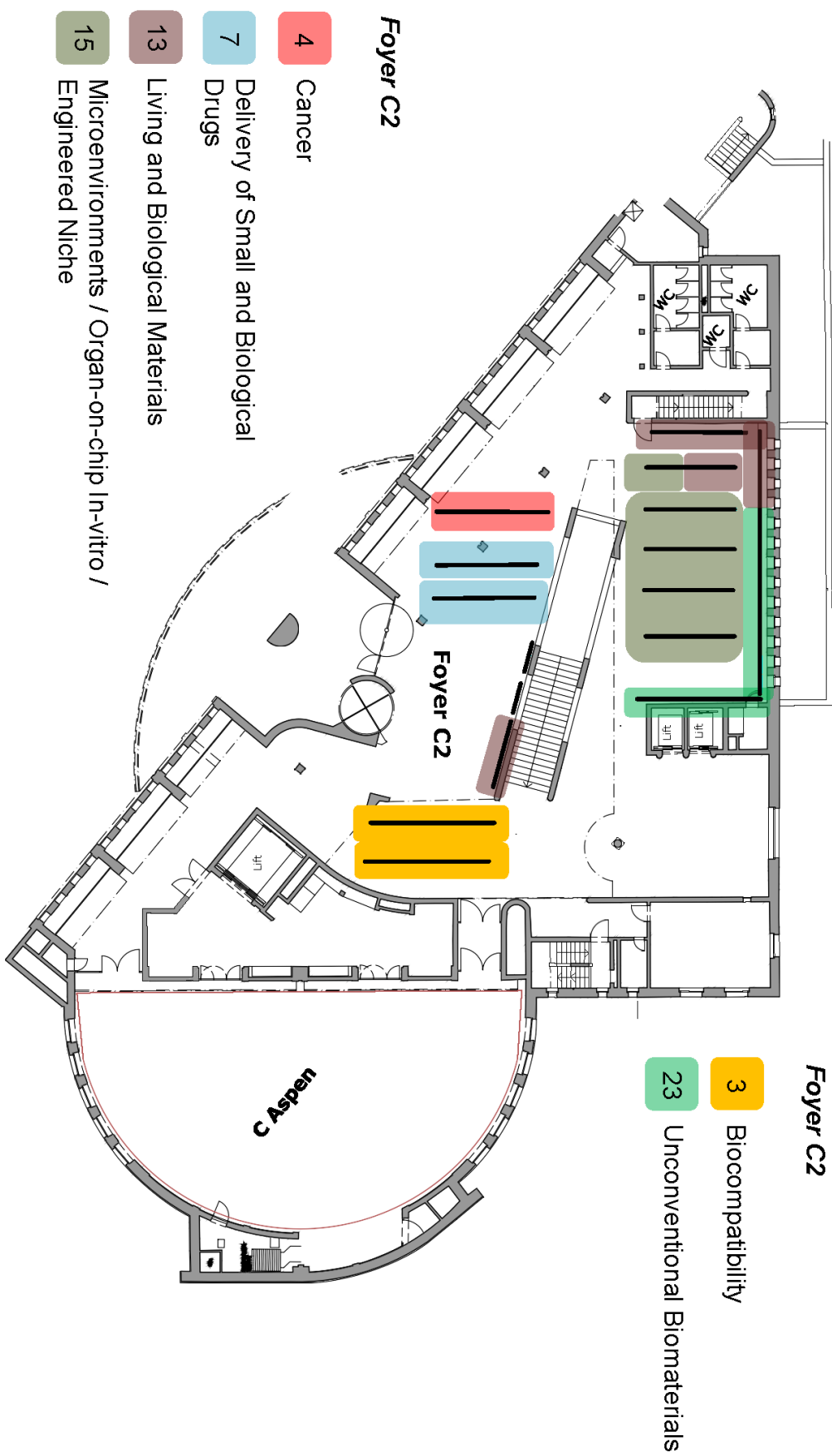
Altein/Ducan

- 14 Medical Devices and Metal
- 21 Sensing
- 22 Surfaces





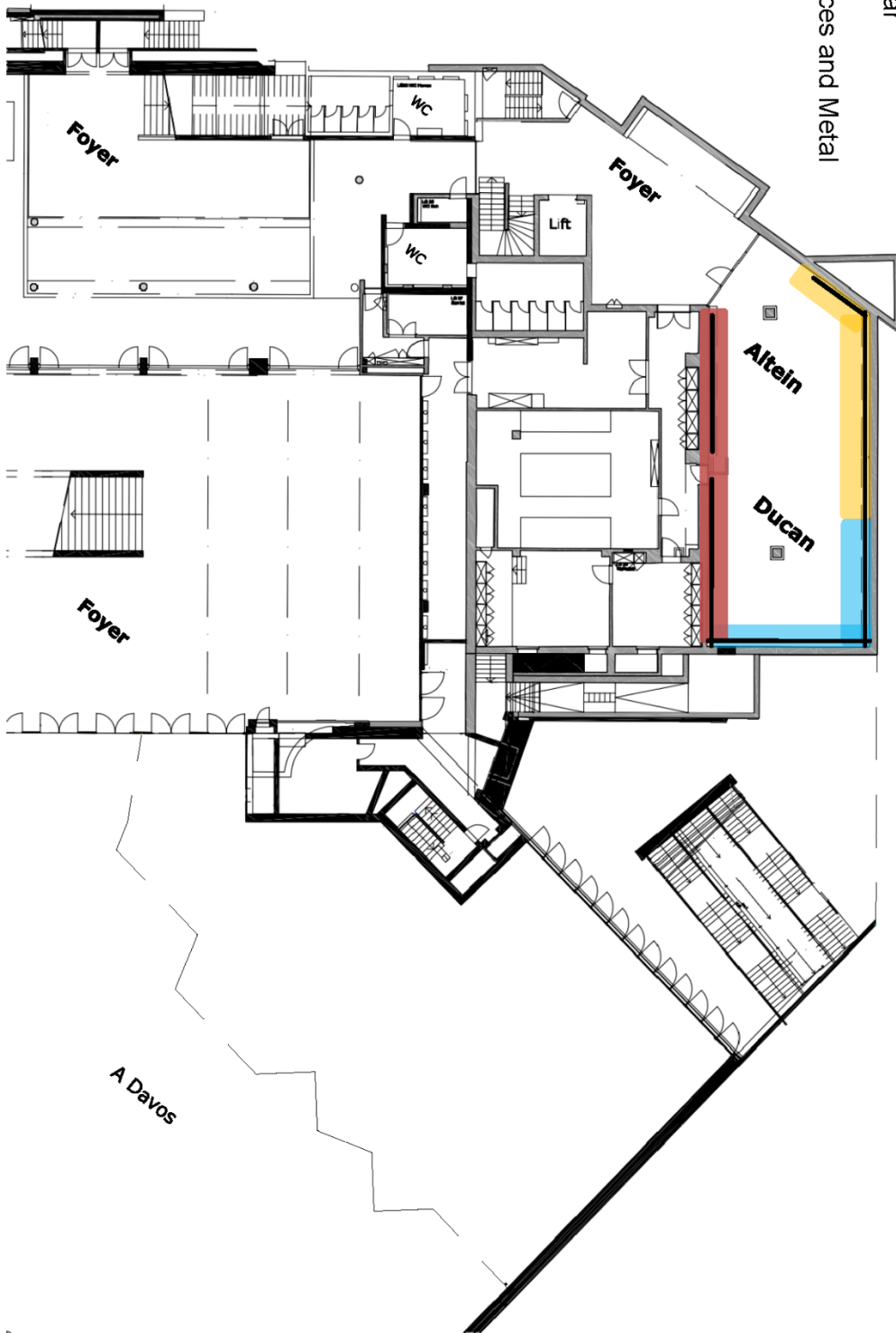
Session B - Wednesday September 6th



Session B - Wednesday September 6th

Altein/Ducan

- 5 Cardiovascular
- 14 Medical Devices and Metal
- 22 Surfaces



Poster by topic and number

The ESB2023 abstracts are hosted by [ARI Abstracts](#). Presenting authors are underlined. Missing numbers correspond to withdrawn abstracts.

Additive Manufacturing/Biofabrication	
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PoA.1.02	Fabrication of visibly degradation-monitored PCL/FNDs (Fluorescent nanodiamonds) bioscaffolds using MEW method. <u>Xixi wu</u> , Thea Vedelaar, Runrun Li, Romana Schirhagl, Marleen Kamperman, Malgorzata Wlodarczyk Biegun.
PoA.1.03	Viscoelastic properties of gels determine the collective migration rate on PANC-1 3D models. Gema Quiñonero-López, Itciar González, <u>Luis M Rodriguez Lorenzo</u>
PoA.1.04	Age-specific Decellularized ECM Bioinks for Enhanced Spinal Cord Injury Therapy. <u>Palash Chandravanshi</u> , Natacha Levy, Zaida Álvarez Pinto
PoA.1.05	Gelatin-based inks for the development of porous scaffolds combining 3D printing and electrospinning. <u>Teresa Carranza</u> , Jone Uranga, Ainhoa Irastorza, Ander Izeta, Pedro Manuel Guerrero, Koro de la Caba
PoA.1.06	Biofabrication of oxidized alginate-gelatin (ADA-GEL) based structures incorporating ion releasing nanoparticles for tissue engineering applications. <u>Hsuan-Heng Lu</u> , Clara Froidevaux, Aldo R. Boccaccini
PoA.1.07	Enzyme Bioink for the 3D Printing of Biocatalytic Materials. <u>Luca A Altevogt</u> , Rakib H Sheikh, Thomas G Molley, Joel Young, Kang Liang, Patrick Spicer, Kristopher A Kilian, Peter R Wich
PoA.1.08	Preparation and printability of a composite silk fibroin-hyaluronic acid-PLGA biomaterial ink as co-delivery carrier. <u>Jhaleh Amirian</u> , Jacek K. Wychowaniec, Matteo D'Este, Andrea Vernengo, Agnese Brangule, Dace Bandere
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PoA.1.11	Patient-specific meniscus prototype based on 3D bioprinting of high concentrated collagen bioink. <u>Alfredo Ronca</u> , Ugo D'Amora, Carla Zihlman, Niklaus Stiefel, Girish Pattappa, Peter Angele, Luigi Ambrosio
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- PoA.1.18** 3D bioprinted tubular constructs functionalized with platelet-rich plasma promote endothelial tissue regeneration.
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- PoB.1.02** 3D printed scaffolds with honeycomb patterning as prototypes for bioinspired implants and tissue engineering scaffolds.
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- PoB.1.06** Pyroptosis remodeling tumor microenvironment to enhance pancreatic cancer immunotherapy driven by membrane anchoring photosensitizer.
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- PoB.1.08** Stem cell-based 3D constructs for bone grafts.
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- PoB.1.10** Optimizing the composition of alginate and gelatin bioinks to improve printability and cell viability for cardiac regenerative medicine.
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- PoB.1.23** 3D bioprinted constructs comprising gellan gum/PVA enriched with nanohydroxyapatite promote bone tissue regeneration.
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- PoB.1.37** Side-emitting optical fibers by multimaterial 3D printing.
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- PoB.1.40** 3D bioprinting of bone – combination of human bone marrow-derived stem cells, a novel hyaluronic acid-based bioink, and bioactive glass-derived ions.
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- PoA.2.03** Weak organic acid loaded hydrogel coatings for the prevention of catheter-associated urinary tract infections.
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- PoA.2.18** Unveiling the antibacterial properties of irradiated graphene oxide surfaces.
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- PoB.3.15** Development of a novel multicellular in vitro model of intestinal inflammation.
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- PoB.3.16** Evaluating the immune response and cytotoxicity of degradation products from crosslinked silk fibroin scaffolds.
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- PoB.3.17** Response of non-cytotoxic concentrations of various metal ions on adipose-derived mesenchymal stem/stromal cells.
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- PoA.4.02** Development of 3D biocompatible hydrogels using a novel application of continuous liquid interface production (CLIP) for the sustained delivery of therapeutic neural stem cells against glioblastoma.
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- PoA.4.03** Tailored synthesis of dual-color silica nanosystems and its analysis by super resolution microscopy as potential tool in cancer therapy.
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- PoA.4.04** Cancer Immunotherapy with Chemically Enhanced Anaerobic Bacteria in Combination with Photothermal Therapy.
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- PoA.4.05** A microfluidic model of human vascularized breast cancer metastasis to bone for the study of immune-cancer cell interactions.
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- PoA.4.06** Screening for Copy Number Changes in Hepatocellular Carcinoma Using High-Resolution Multiplex PRT.
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- PoA.4.07** Bone metastatic spheroid model for preclinical evaluation of novel anticancer biomaterials and therapeutics.
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- PoA.4.09** Engineering a vascularized aerogel-based platform using biofunctionalized alginate.
Mariana V. Magalhães, Inês Coutinho, Cristina C. Barrias, Silvia J. Bidarra
- PoA.4.10** Quantitative spatial distribution maps of hyaluronic acid in healthy skin and melanoma using a novel methodology.
Jorge González-Rico, Cristina Quílez, Marisa López-Donaire, Enrique Cerdeira, Nuria Gago-López, Arrate Muñoz-Barrutia, Diego Velasco
- PoA.4.12** Integrating Spectroscopic and Imaging Approaches for Improved Biological Fluids and Tissues Biopsy Analysis in Colorectal Cancer Detection.
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- PoA.4.13** 3D Bioprinting for creating osteosarcoma constructs as a model for Boron Neutron Capture Therapy (BNCT) studies.
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- PoA.4.14** Development of mesoporous silica nanoparticles coated with pH-responsive polymers and encapsulated with MAPK inhibitor for the treatment of Colorectal carcinoma.
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- PoA.4.16** AUTAC-based supramolecular self-assembled nanostructures for immunometabolic intervention and reprogramming macrophage to M1 polarization in tumor immunotherapy.
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- PoA.4.17** Innovative Approach for Treating Glioblastoma After Surgery: Thermo-Sensitive PEG-PCL-PEG Hydrogel Loaded with Branched Poly(amidoamine) siRNA Complexes.
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- PoB.4.02** Self-assembled oxidized dextran nanogels for cisplatin delivery.
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- PoB.4.03** A direction for reliable osteosarcoma research: a 3D tumour model.
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- PoB.4.04** Temperature-controlled photothermal therapy to induce immunogenic cell death in breast cancer cells.
Emilia Happonen, Yiannis Constantinou, Konstantin Tamarov, Vesa-Pekka Lehto, Wujun Xu
- PoB.4.08** Development and in vitro characterization of 3D-printed composite scaffolds with superparamagnetic iron oxide nanoparticles for bone regeneration and magnetic hyperthermia.
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- PoB.4.10** Nitric oxide-scavenging hydrogels as promising therapeutics for triple-negative breast cancer.
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- PoB.4.13** Endotoxin contamination alters macrophage-cancer cell interaction and therapeutic efficacy in pre-clinical 3D in-vitro models.
Catarina Silva, Praneeth Reddy Kuninty, Jos Olijve
- PoB.4.15** Photo-processed decellularized matrix hydrogels for engineering organotypic human tumor-stroma 3D biomodels.
Vítor M. Gaspar, Maria V. Monteiro, Luís P. Ferreira, João F. Mano
- PoB.4.17** Development of a new composite injectable system for cancer treatment.
Cezar Tipa, Paula Soares I. P. Soares, João P. Borges, Luis C. Costa, Jorge C. Silva, Adriana Gonçalves

Cardiovascular

- PoB.5.01** The combination of passive and active mechanical loadings improves contractility and maturation of three-dimensional engineered cardiac tissues.
Antonio Sileo, Alessia Pisanu, Deborah Fusco, Stefano Gabetti, Diana Massai, Anna Marsano

- PoB.5.02** Development of a completely biological heart valve repair strategy for fallot's tetralogy correction.
Manisha Singh, François Roubertie, Paul Borchiellini, Adeline Rames, Caglar Ozturc, Jean Bonnemain, Sophie Wang, Jérôme Naulin, Dounia El Hmrani, Nicolas L'Heureux, Ellen T Roche, Fabien Kawecki
- PoB.5.03** Assembly of multilayered tissue engineered vascular equivalent with a biomimetic approach.
Gozde E. Kole, Yilmaz O Koyluoglu, Halime Kenar, Vasif Hasirci, Deniz Yucel
- PoB.5.04** An anatomically inspired and spatially heterogeneous mitral valve scaffold via melt electrowriting.
Kilian Maria Arthur Mueller, Matthias Pixner, Paula Castejón Echevarne, Petra Mela
- PoB.5.05** Platelet-inspired nanoparticles for targeted drug delivery to the atherosclerotic plaque.
Yangshuo (Jessie) Hu, Adam Celiz
- PoB.5.06** An improved radiolabeling strategy of extracellular vesicles (EVs) for prolonged in vivo monitoring in the heart using PET imaging.
Arnab Banerjee, Ivanna Hrynychak, Karina Simon, Francisco Tejo, Quélia Ribeiro, Antero Abrunhosa Abrunhosa, Lino Ferreira
- PoB.5.07** Novel injectable chitosan-based cryogel loaded with cytokines and growth factors restores heart function after myocardial infarction.
Kamila Raziyeva, Zharylkasyn Zharkinbekov, Yevgeniy Kim, Arman Saparov
- PoB.5.08** Vascular access for hemodialysis: the response of endothelial cells to turbulent flow shear stress.
Chiara Emma Campiglio, Matteo Tironi, Andrea Remuzzi
- PoB.5.09** Advanced bioactive coating to improve the bio-integration of synthetic vascular grafts.
Lydia Marinou, Vineetha Jayawarma, Niall Patterson, Robbie Brodie, Matthew Dalby, Manuel Salmeron-Sancez
- PoB.5.10** Design, fabrication and in vivo testing of thick human cardiac engineered tissues.
María Flandes-Iparraguirre, Olalla Iglesias García, Pilar Montero-Calle, Andrea Sánchez, Ricardo M Rosales, Nicolás Laita, Elena M de-Juan-Pardo, Estefanía Peña, Esther Pueyo, Manuel Doblaré, Felipe Prósper, Manuel M Mazo
- PoB.5.12** Characterisation of tobramycin-loaded tubular grafts: a potential infection-proof alternative to autologous vessels in vascular surgery.
Mariella Rosalia, Pietro Grisoli, Rossella Dorati, Giovanna Bruni, Ida Genta, Bice Conti
- PoB.5.13** Native fibroin-like protein as a base for the fabrication of an aortic heart valve replacement.
Amanda Schmidt, Alex Greenhalgh, Stefan Jockenhoewel, Martin Frydrych, Alicia Fernández-Colino
- PoB.5.14** Everolimus loaded pluronic P123 self-assembled micelles as a potential drug delivery system for drug-eluting balloons.
Mohammad Akrami-Hasan-Kohal, Tahmer Sharkawi
- PoB.5.16** Enhancing the endothelialization of bare metal stents with endothelial colony forming cells.
Isra Marej, Matthias Gabriel, Blerina Ahmetaj-Shala, Omar Chidiac, Binitha M Thomas, Charbel Abi Khalil, Ramzi Khamis, Jane Mitchell, Chris Triggle
- PoB.5.17** On the way to develop a degradable small diameter vascular graft: in vitro characterization, in vivo degradation and graft production.
Duarte Moura, Helena P. Ferreira, Sabrina Rohringer, Andreia T. Pereira, Cristina C. Barrias, Fernão D. Magalhães, Petra Mela, Helga Bergmeister, Inês C. Gonçalves

Composites

- PoA.6.04** Thiolate poly(lactic-co-glycolic acid) nanofibers loaded with dexamethasone and ropivacaine show enhanced sustained release in the treatment of neuropathic pain through a local therapy technique.
Yoon Jin Choi
- PoA.6.06** Development of polymeric reinforcements for collagen-based vascular wall models.
Nele Pien, Dalila Di Francesco, Francesco Copes, Michael Bartolf-Kopp, Victor Chausse, Marta Pegueroles, Tomasz Jüngst, Francesca Boccafoschi, Catharina De Schauwer, Sandra Van Vlierberghe, Peter Dubrueel, Diego Mantovani
- PoA.6.07** Degradation of polycaprolactone dental filament composites for use as drug delivery system.
Benjamin Kruppke, Therese Schüler, Celine Guder
- PoA.6.09** Poly(etheretherketone) / reduced graphene oxide nanocomposite coatings prepared by electrophoretic deposition with self-assembled architectures: relation between the microstructure, properties, and cellular proliferation.
Eduin Ivan González Castillo, Arturo Elías Aguilar Rabiela, Martin Kreuzer, Araceli Flores, Yadir Torres, Peter Samuel Shuttleworth, Gary James Ellis, Aldo Roberto Boccaccini
- PoA.6.10** Bioactive composite scaffolds for the regeneration of critical-sized mandibular defects.
Sophia Dalfino, Martyna Nikody, Martijn van Griensven, Elizabeth R. Balmayor, Claudia Dolci, Gianluca Tartaglia, Lorenzo Moroni
- PoA.6.11** HAP-ICG particles as a filler of biodegradable polymer-based composite for NIR fluorescence-based medical imaging.
Żaneta Górecka, Joanna Idaszek, Wojciech Świeszkowski
- PoA.6.12** Evaluation of Biodegradability and Osteointegration of Carbon Fiber Reinforced Poly(lactic Acid) Scaffolds.
Mehmet Niyazi Cetin, Recep Ustunsoy, Tahsin Ertas, Rola Zahedah, Bircan Dinc
- PoA.6.13** Tough bioactive 3D nanocellulose composites.
Yeji Han, Jaehwan Kim, Junsik Choi, Jinho Hyun
- PoB.6.01** Radiographic analysis of chitosan, hydroxyapatite, and carbon nanotube composite with or without mesenchymal stem cells in critical size defects in sheep tibia after four months.
Thamires SPM Koga, Anderson F Souza, Danielli CB Silva, Grazieli CM Silva, Marília N Cardoso, Geissiane M Marcondes, Nicole F Paretsis, Joice Fülber, Beatriz T Maia, Silvia RG Cortopassi, Ana MG Plepis, Virginia CA Martins, André LV De Zoppa
- PoB.6.02** Customized PCL-based biomaterial effectiveness in the regard of osteoblastic cells.
Benedetta Ghezzi, Matteo Meglioli, Biagio Matera, Donatella Duraccio, Maria Giulia Faga, Francesca Rossi, Andrea Zappettini, Guido Maria Macaluso, Simone Lumetti
- PoB.6.03** Bioresorbable and bioactive polycaprolactone/silicate, zinc Co substituted hydroxyapatite nanocomposites with enhanced mechanical properties.
Tim Kreuz, Marcus Gaiser-Porter, David Zermeño Pérez, Ruth E Cameron, Serena M Best
- PoB.6.06** Characterisation of Poly(3-hydroxybutyrate)/Graphene oxide (P(3HB)/GO) composite films and scaffolds for bone tissue engineering.
Soponvit Larpnimitchai, Andrea Mele, Ipsita Roy
- PoB.6.07** MXene-based magnetic composites for highly effective enrichment of phosphopeptides.

Lingzhu Yu, Yicheng Liu, Fang Lan, Yao Wu

- PoB.6.09** Bacterial cellulose/Polyhydroxyalkanoate composite-based patches for bone tissue engineering.
Zeming Cheng, Jonathan David Hinchliffe, Soponvit Larpmitchai, Mahendra Raut, Ipsita Roy
- PoB.6.10** MRI-visible and multifunctional melt-electrowritten scaffolds for tissue engineering applications.
Salma Mansi, Kilian M.A. Mueller, Geoffrey J Topping, Zahid Hussain, Sarah Dummert, Carolin Rickert, Sebastian Schwaminger, Sonja Berensmeier, Roland Fischer, Oliver Lieleg, Franz Schilling, Petra Mela
- PoB.6.13** All-cellulose composites made from wood-based textiles using NaOH-urea solvent system.
Eija-Katriina Uusi-Tarkka, Mikael Skrifvars, Antti Haapala, Pooria Khalili, Henrik Heräjärvi, Nawar Kadi
- PoB.6.14** Effect of dual-ring composite chitosan/brushite scaffolds enriched with Ce-oxide nanoparticles on human periodontal ligament cells viability.
Maria Bousnaki, William Oates, Ioannis Tsamesidis, Anastasia Beketova, Antonios Anastasiou, Eleana Kontonasaki

Delivery of Small and Biological Drugs

- PoA.7.01** Novel technologies for transdermal delivery of active molecules.
Mehrsa Rafie Jirdehi, Amélie Revaux, Pascale Pham
- PoA.7.02** Development of a biocompatible allogenic support for gradual dispensation of active substances.
Florine Grossetête, Laurence Barnouin
- PoA.7.03** Rocket-like microneedles for long-acting hormone therapy in prostate cancer.
Mi-Chi Tsai, Kuan-Ta Chen, Hung-Wei Yang
- PoA.7.04** Avastin-loaded 3D-printed scaffold as an effective anti-adhesive barrier to prevent post-surgical adhesion bands formation.
Fatemeh Jamshidi-Adegani, Saeid Vakilian, Fahad Al-Fahdi, Juhaina Al-Kindi, Sulaiman Al-Hashmi
- PoA.7.05** Novel drug delivery vehicle: doxorubicin-loaded octacalcium phosphate.
Ilijana Kovrlija, Ozgur Demir, Marta Laizane, Janis Locs, Dagnija Loca
- PoA.7.06** Tailoring Liposomal Membrane Elasticity for Enhanced Biodistribution and Anti-Inflammatory Response in Systemic Rheumatoid Arthritis Treatment.
Dahwun Kim, Suyeon Lim, Siyan Lyu, Hwira Baek, Jin Woong Kim, Jihoon Jeong
- PoA.7.07** Functionalization of a meniscus prosthesis with polymer coatings for the sustained release of anti-inflammatory drugs.
Alfonso F. Blanco, Gustavo Lou, Inés Rubio, José Crecente-Campo, María José Alonso
- PoA.7.08** Copper nanoclusters as active agents for a pediatric orphan disease.
Ariane Boudier, Audrey Malardé, Jean-Marc Alberto, Grégory Pourié, Benjamin Creusot, Alexa Courty, Bruno Madebène, Benoit Tremblay, Ali Ouadi, David Brasse, Igor Clarot, François Feillet
- PoA.7.09** Biphasic porous structures formed by monomer/water interface stabilization with colloidal nanoparticles
Fabio Pizzetti, Valeria Vanoli, Roberta Magaletti, Giovanna Massobrio, Franca Castiglione, Filippo Rossi

- PoA.7.10** Development of injectable HPMC-hydrogel loaded with pH and thermo-responsive poly((PLA-co-MAA)-b-(EG2MA-co-EG8MA)) nanoparticles.
Elisa Lacroce, Francesca Cianniello, Giuseppe Nunziata, Filippo Rossi
- PoA.7.12** Electrically responsive drug delivery hydrogel for ureteral stent application.
Beatriz Domingues, Eduardo Silva, Estêvão Lima, Alexandre A Barros, Rui L Reis
- PoA.7.13** Development of an in vitro model to test senolytic formulations in cardiac disease.
Filippo Cuni, Lorenza Garau Paganella, Giovanni Bovone, Celine Labouesse, Sara Mantero, Costanza Giampietro, Mark Tibbitt
- PoA.7.14** Mold-less microneedle for transdermal drug delivery with protein protective property via dextran-based zwitterionic polymer.
Kazuaki Matsumura, Harit Pitakjakpipop, Paisan Khanchaitit, Kittipong Tantisantisom, Robin Rajan
- PoA.7.16** Redox responsive nanogels for intracellular drug delivery.
Stéphane H.F. Bernhard, Carolina Söll, Giovanni Bovone, Emanuele Mauri, Mark W Tibbitt
- PoA.7.17** Xenon-free cardiac tissue repair enabled by human protein-based microparticles as cell carriers.
Sara C. Santos, Catarina A. Custódio, João F. Mano
- PoB.7.01** Precise nanostructuring of polymer brush-based nanoparticles for gene delivery.
Carlos E Neri Cruz, Lan Chang, Julien E Gautrot
- PoB.7.02** Microneedle-guided lymphatic delivery of a natural immune modulator toxin for enhanced cancer immunotherapy.
Suyeon Lim, Dahwun Kim, Siyan Lyu, Jihoon Jeong
- PoB.7.03** Development of a nanoparticle for early diagnosis of Alzheimer's disease.
Beatriz T Simões, Catarina Chaparro, Marco C. Cavaco, Miguel A. R. B. Castanho, Pedro Ramos Cabrer, Paula I.P. Soares, Vera Neves
- PoB.7.04** Local drug delivery systems for dealing with Peri-Implantitis: Evaluation in novel microfluidic tools.
William Oates, Antonios Anastasiou
- PoB.7.05** Inhalable microparticles embedding calcium phosphate nanoparticles for cardiac drug delivery.
Lorenzo Degli Esposti, Federica Mancini, Eride Quarta, Jessica Modica, Alessio Adamiano, Anna Tampieri, Claudio De Luca, Paolo Colombo, Alessio Alogna, Daniele Catalucci, Michele Iafisco
- PoB.7.07** Cartilage-penetrating zwitterionic polymer-drug conjugates for ultra-low dose glucocorticoid delivery.
Patrick Weber, František Surman, Maryam Asadikorayem, Marcy Zenobi-Wong
- PoB.7.08** Exploiting in vitro mechanical stimulation of cells to refine the transfection efficiency of non-viral gene delivery vectors.
Beatrice Ruzzante, Stefano Parazzini, Emiliano Votta, Gabriele Candiani, Nina Bono
- PoB.7.09** Development of magnetic-polymeric nanoparticles as a theranostics strategy for Alzheimer's disease.
Catarina Chaparro, Marco Cavaco, Miguel Castanho, João Paulo Borges, Vera Neves, Paula Pereira Soares
- PoB.7.10** Vescalagin and castalagin present anti-amyloidogenic activity towards pre-formed fibrils of α -synuclein.
Ana Rita Araujo, Rui Luís Reis, Ricardo Alexandre Pires

- PoB.7.12** The potential of fully biodegradable dendritic vectors to deliver nucleic acids to cartilage tissue.
Sara Zarzo-Arias, Victoria Leiro, Ana Paula Pêgo
- PoB.7.13** Testing novel oligosaccharide-based drugs on polyoxazoline carriers for pharmacological inhibition of galectin-3 in an in vitro and in vivo rat model of pulmonary hypertension.
Antonin Sedlar, David Vrbata, Katerina Pokorna, Frantisek Kolar, Pavla Bojarova, Lucie Bacakova
- PoB.7.14** LNP-mediated mRNA delivery toward ex vivo liver regeneration.
Leslie Cunningham, Florian Huwyler, Jonas Binz, Mark W. Tibbitt
- PoB.7.15** Exploring the therapeutic potential of a new design of tetrahedral DNA nanostructures with a framework-integrated anti-microRNA antisense sequence.
Sara D. Reis, Ana S.G. Martins, Ruxandra Baboi, João Cortinhas, Filomena Carvalho, Nuno C. Santos, Ana P. Pêgo, Pedro M.D. Moreno
- PoB.7.17** Near-infrared light-activated formulation for the spatial controlled release of CRISPR-Cas9 ribonucleoprotein for brain gene editing.
Susana Simões, Miguel Lino, Angela Barrera, Catarina Rebelo, Francesca Tomatis, Andreia Vilaça, Andrea Neuner, Ricardo González, Alexandra Carvalho, Stefan Stricker, Lino Ferreira
- PoB.7.18** To reset the senescence program in senescent stem/progenitor cells by extracellular vesicles.
Cláudia M. Deus, Susana Soares, Magda Ferreira-Rodrigues, Akhilesh Rai, Miguel Lino, Lino Ferreira
- PoB.7.19** Multifunctional Baghdadite ceramic for local chemotherapy and bone regeneration.
Sally Kortam, Zufu Lu, Pooria Lesani, Seyed-Iman Roohani-Esfahani, Ghazal Shineh, Leila Mamizadeh Janghour, Behnam Akhavan, Hala Zreiqat

Dental

- PoA.8.03** Improved osseointegration using novel bioceramic surface layers on titanium alloys for dental implant.
Nigel Gordon Smith, Pavel Shashkov, Aleksey Yerokhin
- PoA.8.04** AFM analysis and nanoindentation of the mechanical properties of the superficial layers of teeth after bleaching.
Claudio Pasquale, Fabrizio Barberis, Alberto Lagazzo, Matteo Schiaffino
- PoA.8.05** Palatal expansion screws: analysis of the force expressed by 7 different configurations.
Matteo Schiaffino, Marco Migliorati, Alberto Lagazzo, Fabrizio Barberis, Claudio Pasquale
- PoA.8.07** Precision Remineralising Technologies to Advance Dental Enamel Health.
Palwinder Kaur, Helen Chappell, Mohammed Al-Mosawi, Maisoon Al-Jawad, Ursula McDonnell, Christabel Fowler
- PoA.8.08** The flow ability of various root canal sealers in room temperature and human body temperature: preliminary study.
Seokwoo Chang
- PoA.8.09** Novel dental implants materials based on the β -type titanium and zirconium alloys produced with the application of mechanical alloying and field-assisted sintering technique.
Mateusz Marczewski, Piotr Siwak, Flávia Pires Rodrigues, Kamil Kowalski, Mieczysław Jurczyk, Dariusz Garbiec

- PoA.8.10** Development of a 3D in vitro mineralized bone model to reproduce the osseointegration process of dental implants.
Ghannaa Shayya, Olivier Chassande, Marie Laure Stachowicz, Hugo De Oliveira, Anne Lise Chopard Lallier, Robin Siadous, Sylvain Catros
- PoA.8.12** Mechanically loaded Zirconia and Titanium implants in artificially induced peri-implant inflammation.
Christoph Martin Sprecher, Susi Wolf, Stefan Milz, Henriette Engelhardt-Woelfler, Michael Gahlert, Simon Janner, Boo Meng, David L Cochran, Stefan Röhling
- PoA.8.13** Fluoride ion release from PMMA/PEO/NaF composite for dental application.
Jia Wang, Wen Kou
- PoA.8.14** Mucoadhesive patches for topical application of steroids on the oral mucosa.
Elena Maria Varoni, Andrea Cochis, Lorenzo Bonetti, Alessandro Scalia, Marcello Manfredi, Luigi De Nardo, Lia Rimondini, Lina Altomare
- PoA.8.15** Light-responsive and multifunctional antimicrobial coatings to prevent peri-implantitis.
Teresa Gagliardi, Paulo Palma, Chiara Tonda-Turo, Akhilesh Raj
- PoA.8.16** Hemocompatibility, biocompatibility, and oxidative stress indicators in human periodontal ligaments cells: Interactions with cerium/calcium doped mesoporous nanoparticles.
Ioannis Tsamesidis, Georgia K. Pouroutzidou, Anastasia Beketova, Maria Bousnaki, Anna Theocharidou, Eleana Kontonasaki
- PoA.8.17** Modelling and in-vitro study of ultrashort-pulsed laser irradiation on human enamel for tooth restoration: A hybrid technique.
Sarathkumar Loganathan, Eric Kumi Barimah, Neelam Iqbal, Simon Strafford, Brian Nattress, Sue Pavitt, Anna Nielsen, Animesh Jha

Electrospinning and textile

- PoA.9.02** Phytotherapeutic agent functionalized cotton wool-like bioactive glass-based fibers for wound healing applications.
Irem Unalan, Lea Schoeppach, Aldo Roberto Boccaccini
- PoA.9.03** Exploring the Potential of Silica/Collagen Hybrid Nanofibers Scaffolds in Bone Tissue Engineering.
Sara Jalali, Benjamin Kruppke
- PoA.9.04** Morphological comparison of PCL and PCL/gel electrospun nanofibers and in vitro toxicity evaluation with pig tendon-derived tenocytes and stem cells.
Seyma Sereflioglu, Matt Shephard, Nicholas Forsyth, Aldo Boccaccini
- PoA.9.05** Mechanical and biological characterization of electrospun scaffolds as biomimetic dural substitutes.
Nathalia Oderich Muniz, Jean-Philippe Tosiani, Timothee Baudequin
- PoA.9.06** Advanced experimental and numeric simulation method used for the characterization of nanofibers biomaterials produced by electrospinning.
Ramona - Crainic, Alexandru Stefan Farcasanu, Petru - Pascuta, Lavinia Raluca Saitis, Radu - Fechete
- PoA.9.08** Development and characterization of nanofibrous membrane for the treatment of congenital diaphragmatic hernia.
Rodolphe Migneret, Isabelle Talon, Emeline Lobry, Guy Schlatter, Hamdi Jmal, Amane-Allah Lachkar, Nadia Bahlouli, Anne Hébraud

- PoA.9.09** The morphology and topography of Chitosan-Zn complex fiber mats influence the viability and attachment of stromal cells and mouse fibroblasts.
Nurshen Mutlu, Fatih Kurtuldu, Aleksandra Ewa Nowicka, Liliana Liverani, Dušan Galusek, Aldo R. Boccaccini
- PoA.9.10** Poly(Beta-amino)ester electrospun wound dressing with modulated degradation kinetics for Chronic wound treatment.
Liam Ayaden, Mickael Maton, Feng Chai, Nicolas Blanchemain, Stéphanie Degoutin
- PoA.9.11** Fabrication of fish gelatin-PiPOx and GelMA- PiPOx fibrous scaffolds.
Elena Olăreț, Florica A Jerca, Valentin V Jerca, Raluca E Ginghină, Izabela C Stancu
- PoA.9.12** Medical Lace Embroidery – A promising technique for customised and malleable orbital floor implants.
Cindy Elschner, Karla Günther, Judith Hahn, Laura Meinig, Axel Spickenheuer, Markus Stommel, Paula Korn
- PoA.9.13** Electrospun bacterial cellulose mesh electrospayed with chitin nanofibrils as a regenerative and sustainable patch for tympanic membrane perforation.
Bahareh Azimi, Atefeh Rasti, Claudio Ricci, Alessandra Fusco, Giovanna Donnarumma, Roohollah Bagherzadeh, Ipsita Roy, Andrea Lazzeri, Serena Danti
- PoA.9.14** Characterization of Polycaprolactone Antibacterial Electrospun Membranes For Drug Delivery.
Mickaël Maton, William Aulard-Dorche, Maxime Lebaz-Dubosq, Kim Vanden Broeck, Feng Chai, Christel Neut, Jonathan Sobocinski, Bernard Martel, Nicolas Blanchemain
- PoB.9.02** Engineering hydroxyapatite-loaded scaffolds with melt electrowriting.
Joanna Babilotte, Marta Ferreira, Monize Caiado Decarli, Rita Sobreiro-Almeida, Paul Wieringa, João Mano, Susana Olhero, Lorenzo Moroni
- PoB.9.03** Development of biofunctionalized membranes for the reconstruction of critical size segmental bone loss.
Hugo Bossut, Cédric Zobrist, Feng Chai, Marc Saab, Bernard Martel, Nicolas Blanchemain
- PoB.9.08** Electrospinning a mechanocompatible external support for the ross procedure.
Thibault Vervenne, Lauranne Maes, Filip Rega, Nele Famaey, Arn Mignon
- PoB.9.09** Comparing the performance of electrospun methacrylated alginate hydrogels with and without additional crosslinkers for wound healing application.
Carolina Gutierrez Cisneros, Elise Venken, Arn Mignon, Veerle Bloemen
- PoB.9.10** Electrospinning methods for the production of poly(ϵ -caprolactone) nanofibers for biomedical applications.
Andjela N. Radisavljevic, Vukasin Ugrinovic, Dusica Stojanovic, Vesna Radojevic, Petar Uskokovic, Mirjana Rajilic-Stojanovic
- PoB.9.11** Three dimensional melt electrospinning of poly- ϵ -caprolactone for future tissue engineering applications in meniscal repair.
Anna-Maria Gröll, Carsten Linti, Michael Doser
- PoB.9.12** Effect of electrospun PVA- salmon gelatin- chitosan nanofibers using different types of collectors on muscle cell alignment.
Dragica Bežjak, Benjamín I Schleyer, Cristian Acevedo, Tomás P. Corrales

Hydrogels

- PoA.10.01** Injectable and in situ nitric oxide-generating hydrogel as dynamic matrices for tissue regenerative applications.
Dieu Linh Tran, Phuong Le Thi, Donghwan Oh, Ki Dong Park

- PoA.10.02** Exploring new hydrogel based on chondroitin sulphate and kefiran exopolysaccharide for TERM application.
Hajer Radhouani, Cristiana Gonçalves, F. Raquel Maia, Eduarda Pinheiro Oliveira, Rui L. Reis, J. Miguel Oliveira
- PoA.10.05** Hybrid Glyco-Biomaterials mimicking the ECM microenvironment for 3D bioprinted in vitro models.
Federica Barbuqian, Laura Russo, Francesco Nicotra
- PoA.10.06** Application of injectable glycol chitosan thermogel for inner ear drug delivery.
Thi Phuc Le, Kang Moo Hur, Yong-Ho Park
- PoA.10.07** Improved swelling property of tissue adhesive hydrogels based on alpha-cyclodextrin/decyl group-modified Alaska pollock gelatin inclusion complex.
Hiyori Komatsu, Shiharu Watanabe, Shima Ito, Kazuhiro Nagasaka, Akihiro Nishiguchi, Tetsushi Taguchi
- PoA.10.08** Development of a dual chamber device for therapeutic cell transport using biomaterial at ambient temperature.
Abhik Mallick, Daniel Domingo Lopez, Benjamin Brennan, Ruth Tarpey, Garry Duffy
- PoA.10.10** Biomimetic antibacterial gelatin hydrogels with multifunctional properties for biomedical applications.
Hengzhi Ruan, Marko Bek, Santosh Pandit, Alexandra Aulova, Jian Zhang, Philip Bjellheim, Martin Lovmar, Ivan Mijakovic, Roland Kádár
- PoA.10.11** Glycosaminoglycan-Functionalized Hydrogels as Tools to Modulate Angiogenesis.
Fabian Junker, Toni Radanovic, Emmanuel Ampofo, Matthias W Lascke, Wolfgang Metzger, Sandra Rother
- PoA.10.12** β -Tricalcium Phosphate-loaded Chitosan-based Thermosensitive Hydrogel for Periodontal Regeneration.
Naiwen Tan, Maja Sabalic-Schoener, Linh Nguyen, Francesco D'Aiuto
- PoA.10.13** Linking stiffness of peptide-based hydrogel networks to their fiber morphology.
Tess De Maeseneer, Thibault Cauwenbergh, Charlotte Martin, James Gardiner, Steven Ballet, Ruth Cardinaels, Paula Moldenaers
- PoA.10.14** Biocompatible Hydrogel materials for wound coverage on oral mucosa..
Lucy Kind, Elisa Gianfreda, Yasmin Grether, Oliver Germershaus, Falko Schlottig, Michael M. Bornstein, Eva M. Kulik, Hedwig Wariwoda Lütolf, Andrea Venturato, Adriana Euler
- PoA.10.15** Influence of a hydrophobic copolymer on colon-targeting performance of a pH-responsive hydrogel carrier system.
Mohammad E Rabeh, Matthew P Wylie, Jessica V Moore, Colin P McCoy
- PoA.10.16** 3D printing of high-resolution hydrogels based on photosensitive cellulosic formulation dedicated to biomedical applications.
Iénaïc Soullard, Angélique Schlepp, Béatrice Labat, Sébastien Rolere, Guillaume Nonglaton, Isabelle Texier, Bruno Jean
- PoA.10.17** Estimation of the swelling kinetics of cross-linked hydrogels in solvents using compressive cyclic-loading tests.
Nada Abroug, Hermann Seitz
- PoA.10.18** Enzymatically Triggered Deprotection and Cross-Linking of Thiolated Polymers for Generating Dynamic and Modular Bioinks.
Sajjad Naeimipour, Fatemeh Rasti Boroojeni, Robert Selegård, Daniel Aili

- PoA.10.19** Fine-tuning the processability mechanical properties of hydrogels for load-bearing tissue engineering.
Sofie Houben, Mahsa Ebrahimi, Mariana Arreguin Campos, Ana Aldana, Matthew Baker, Louis Pitet
- PoA.10.20** Development of a lung tumour hydrogel phantom model: A simulation test-bed for procedural planning.
Tapas Mitra, Laura B Gallagher, Aoife Lowery, Garry P Duffy
- PoA.10.21** Enhancing the Durability of Hydroxyethylacrylamide-based Adhesives through PEG-NHS Incorporation.
Ece Uslu, Vijay Kumar Rane, François Gorostidi, Kishore Sandu, Dominique Pioletti
- PoA.10.22** Topography-mediated muscle engineering using Alginate-based scaffold.
Tianqi Feng
- PoA.10.23** Ionic liquid-based antimicrobial hydrogel coating.
Xiao Teng, Shuai Zhang, Matthew P Wylie, Caoimhe G Clerkin, Jessica V Moore, Colin P McCoy
- PoA.10.24** Fabrication of mechanically robust hydrogels for 3D printing and injection: The role of the thiol-yne/ene chemistry and the network architecture.
Mahsa Ebrahimi, Mariana Arreguin Campos, Agustina Aldana, Matthew B Baker, Louis M Pitet
- PoA.10.25** Dynamic cucurbit[8]uril-based supramolecular alginate hydrogels.
Nataliya Debera, Pascal Jonkheijm
- PoA.10.26** COL/ACE-based hydrogels to promote wound healing with enhanced angiogenesis.
Lluís Oliver-Cervelló, Delphine Gourdon, Cristina Gonzalez-Garcia
- PoA.10.27** How to prepare a defined methacryloyl modification (GelMA) hydrogel. Factors influencing the hydrogel properties.
Jos Olijve, Thomas Van Gansbeke, Jan-Philip Zegwaart
- PoA.10.28** A Universal Nanogel-Based Coating Approach for Medical Implant Materials.
Devlina Ghosh, Damla Keskin, Abigail M. Forson, Colin W.K. Rosman, Guangyue Zu, Clio Siebenmorgen, Reinier Bron, Theo G. van Kooten, Max J.H. Witjes, Alessia Lasorsa, Patrick C.A van der Wel, Jelmer Sjollem, Henry C. van der Mei, Patrick van Rijn
- PoA.10.30** Monophasic Hyaluronic Acid-Silica Hybrid Hydrogels with Improved Cell Proliferation and Adhesion for Articular Cartilage Regeneration.
Huijun Zhang, Aldo R. Boccaccini
- PoA.10.31** Engineered nano- and microstructured hydrogels for regenerative medicine.
Daniele Marciano, Clemence Nadal, Jordi Gonzalez Molina, Julien Gautrot
- PoA.10.32** Development of a novel plant-derived polysaccharide-based hydrogel for bone tissue engineering.
Xinyu Li, Aleixandre Rodrigo-Navarro, Lluís Oliver-Cervello, Oana Dobre, Manuel Salmeron-Sanchez, Cristina Gonzalez-Garcia
- PoA.10.33** Dynamic G-quadruplex based perfusable supramolecular hydrogels embedded in photocrosslinkable matrices for bioapplications.
João Borges, Vera Sousa, Adérito J. R. Amaral, Edgar J. Castanheira, Igor Marques, João M. M. Rodrigues, Vítor Félix, João F. Mano
- PoA.10.34** Injectable Polypeptide-Based Hydrogels for Local Antibacterial Therapy.
Artemijs Sceglavs, Ingus Skadins, Valdis Pirsko, Juta Kroica, Kristine Salma-Ancane

- PoA.10.35** 3D bioprinted, perfused and vascularized bone organoids to study extravasation and metastasis of cancer.
Alain Plüss, Adam Aleksander Korczak, Martin Ehrbar
- PoA.10.36** Developing an *in vitro* ovary model for the prolonged culture of follicles.
Mira Jacobs, Martin Ehrbar
- PoA.10.37** Tough PEG-based hydrogels for 3D printing and tissue engineering.
Mariana Arreguín Campos, Mahsa Ebrahimi, Matthew Baker, Louis Pitet
- PoA.10.39** Fucoidan/Chitosan Hydrogels for Sustained Delivery of Platelet-Rich Fibrin Containing Growth Factors.
Karina Egle, Eva Dohle, Verena Hoffmann, Ilze Salma, Sarah Al-Maawi, Shahram Ghanaati, Arita Dubnika
- PoA.10.41** Glycosaminoglycan-gelatin hydrogels to promote fibroblast proliferation, migration and angiogenesis.
Toni Radanovic, Fabian Junker, Wolfgang Metzger, Sandra Rother
- PoA.10.43** 3D polysaccharides-based hydrogels for improved extracellular matrix deposition and cardiac repair.
Vanessa Morais Lima, Albane Carré, Emmanuelle Poque, Christelle Harscoat-Schiavo, Raphaëlle Savoie, Pascale Subra-Paternault, Mathilde Maillard, Teresa Simon-Yarza
- PoA.10.44** Development of hyaluronic acid-based hydrogel platforms for delivery of immunotherapeutic agents in cancer treatment.
Bitā Mahdavi Firouzabadi, Cristina Casadidio, Mariarosa Gigliobianco, Roberta Censi, Piera Di Martino
- PoA.10.45** Microencapsulation of mesenchymal stem cells in covalent hydrogel for joint therapy.
Mathilde Ambrosino, Fabien Nativel, Nathan Lagneau, François Loll, Boris Halgand, Arnaud Tessier, Jérôme Guicheux, Vianney Delplace, Catherine Le Visage
- PoA.10.46** Dendritic-Linear-Dendritic (DLD) Based Materials and Their Potential Use in Biomedical Applications.
Noemi Molina, Natalia Sanz del Olmo, Daniel J Hutchinson, Michael Malkoch
- PoA.10.47** Gellan Gum as promising material for human adipose tissue engineering.
Franziska B Albrecht, Petra J Kluger
- PoA.10.48** Injectable hydrogels based on Schiff-base linkages as promising therapeutic platform for *in situ* drug delivery.
Roberta Pappalardo, Monica Boffito, Claudio Cassino, Valeria Chiono, Gianluca Ciardelli
- PoA.10.49** Overcoming photoinitiator limitations. Self-crosslinking material for bioprinting application.
Agnieszka Zakrzewska, Sylwester Domański, Marta Klak, Michał Wszola
- PoA.10.51** Cold-water fish gelatine-based hydrogels for tissue engineering applications.
Tobias Hammer, Ke Yang, Tobias Spirig, Markus Rottmar, Katharina Maniura-Weber, René M Rossi, Kongchang Wei
- PoA.10.52** Cell-patterned temperature-sensitive hydrogels for endochondral ossification.
Athanasia Pylostomou, Jennifer R. Weiser, Matteo D'Este, Jacek K. Wychowaniec, Junxuan Ma, Riccardo Tognato, Tiziano Serra, Dagnija Loca, Andrea J. Vernengo
- PoA.10.54** Development of gellan gum-based bioinks utilizing a two-step photo-crosslinking approach for extrusion-based 3D bioprinting.
Vijay Singh Parihar, Hatai Jongprasitkul, Sanna Turunen, Christine Gering, Minna Kellomäki

- PoA.10.55** Chemical warfare decontamination: strong potential of an innovative phyllosilicate-based film-forming hydrogel for wounded skin decontamination.
Magaly Misbach, Kardelen Durmaz, Jean-Paul Salvi, Alix Danoy, Bernard Verrier, Jérôme Sohier
- PoA.10.58** Combination of Platinum-doped CaCO₃ and Amylopectin-based Gel to Synergize with Radiotherapy for High-grade Glioma.
Jason Lin, Wei-Yang Hong, Hsiang-Kuang Liang, Feng-Huei Lin
- PoA.10.59** Nanofibrillar cellulose hydrogel with stem cells, organoids and wound care.
Lauri J Paasonen
- PoA.10.61** Unlocking the Potential of Thiazolidine and Disulfide-Crosslinked Hyaluronic Acid Hydrogels for 3D Bioprinting.
Shima Tavakoli, Oommen Varghese
- PoA.10.62** REVERSIGEL: REVERSIBly crosslinked hydroGELs for effective cardiac stem cell delivery.
Ken Princen, Wanda Geudens, Geert-Jan Graulus, Peter Adriaensens
- PoA.10.63** From Complementary Components to Advanced Biocomposites based on Fibrin and Silk Fibroin.
Ikram El Maachi, Stavroula Kyriakou, Stephan Rütten, Marius Köpf, Stefan Jockenhoevel, Alicia Fernández-Colino
- PoA.10.64** Fibrin Gel as tissue-mimicking material: synthesis optimization and characterization.
Sabrina Caria, Jessica Petiti, Sara Venturi, Mattia Pegoraro, Federica Celegato, Andrea Lapini, Marco Pisani, Francesca Orso, Federico Picollo, Carla Divieto
- PoA.10.65** Defined Substrate Induced Fibroblast Epigenetic Reprogramming.
Kang Lin, Kristopher Kilian
- PoA.10.66** Development of Poly(acrylic acid)-Cysteine-Based Hydrogels with Tailorable Mechanical Properties for Advanced Cell Culture Applications.
Ellen Kennedy
- PoA.10.67** Development of Photo-Cross-Linkable Catechol Conjugated hybrid Tissue Sealant Hydrogels.
Ahmet Erdem, Dilara Küçük, Feyzanur Şentürk, Aygün Iseyeva, Umit Gülyüz, Ufuk Yıldız, Gökhan Duruksu
- PoB.10.01** Investigation of polypyrrole-grafted alginate-gelatin hydrogels for cartilage tissue engineering.
Lisa Schöbel, Alexandra Springer, Christian Polley, Hermann Seitz, Aldo Boccaccini
- PoB.10.02** Alginate-based hydrogels enriched by human platelet lysate and phytotherapeutic agents for tissue engineering approaches.
Faina Bider, Artem Klotschan, Sonja Kuth, Aldo Boccaccini
- PoB.10.03** The effect of alginate/hyaluronic acid proportion on semi-IPN hydrogel properties for articular cartilage tissue engineering.
Izar Gorroñoogoitia, Sheila Olza, Ana Alonso-Varona, Ane Miren Zaldua
- PoB.10.05** 3D printed polysaccharides-based hydrogels as delivery system for plant-derived exosome-like nanovesicles in chronic wound healing application.
Tiziana Fischetti, Francesca Perut, Laura Roncuzzi, Sofia Avnet, Nicola Baldini
- PoB.10.06** Injectable hyaluronic acid/ε-polylysine hydrogels loaded with strontium hydroxyapatite nanoparticles for osteoporotic bone fracture healing.

Anna Rubina, Anastasija Tumilovica, Artemijs Sceglovs, Liga Stipiece, Kristine Salma-Ancane

- PoB.10.07** Edible microcarriers: From the bench to the bioreactor.
Rebeca E Rivero, Ricardo J.A. Oliveira, Francesco Zaccarian, Anitha A Kumar, Panagiota Moutsatsou, Mark J Post
- PoB.10.08** Tailoring supramolecular hydrogels by the design of modular proteins and polymer-peptide conjugates.
Dalia Dranseikiene, Yusuke Ota, Stéphane Bernhard, Thomas Edwardson, Elia Guzzi, Mao Hori, Camilla Massoudi, Zrinka Raguz Nakic, Christin Peters, Donald Hilvert, Mark Tibbitt
- PoB.10.09** Biomaterial driven 3D *in vitro* spheroid-based lymphangiogenesis model using click crosslinked hydrogels.
Dana E. Al-Ansari, Yangshuo Hu, Nicola Contessi Negrini, Daniela Pirri, Graeme M Birdsey, Adam D Celiz
- PoB.10.11** Bioadhesives for soft tissue attachment to transcutaneous metallic prosthesis.
Sunil Kumar Boda, Vinod Yadav, Sangeeta Shrivastava
- PoB.10.12** Multiactive hydrogel-based wound dressings.
Zdenka Víchová, Simona Káčerová, Ondřej Vašíček, Jan Vícha
- PoB.10.13** Metal-triggered hydrogels and their applications in water treatment and food spoilage detection.
Miriam Mba, Anna Fortunato
- PoB.10.14** Hydrogels based on poly(methacrylic acid) for controlled release of anti-inflammatory drugs.
Maja D. Markovic, Milica M. Svetozarevic, Vukasin Dj. Ugrinovic, Rada V. Pjanovic, Bojana M. Obradovic, Melina T. Kalagasidis Krusic
- PoB.10.16** *In vitro* 3D model for monitoring glial cell responses to particles and ions released from spinal implants.
Estefanía Echeverri, Paul O'Callaghan, Johan Kreuger, Cecilia Persson
- PoB.10.17** Silk-based microfiber structures with well-organized geometries and improved elastic properties.
Martina Viola, Gerardo Cedillo-Servin, Anne Metje van Genderen, Isabelle Imhof, Paula Vena, Marko Mihajlovic, Jos Malda, Tina Vermonden, Miguel Castilho
- PoB.10.18** New Photocleavable PEG hydrogels for subtractive two-photon biofabrication.
Wanwan Qiu, Ralph Müller, Xiao-Hua Qin
- PoB.10.19** Resveratrol-loaded antibiofilm contact lenses: biomaterials design, characterization and *in vitro-in vivo* behavior.
Maria Vivero-Lopez, Ana F. Pereira-da-Mota, Gonzalo Carracedo, Fernando Huete-Toral, Ana Parga, Ana Otero, Angel Concheiro, Carmen Alvarez-Lorenzo
- PoB.10.21** Injectable elastin-like polypeptide composite hydrogel for soft tissue biofiller application.
Mahsa Jamadi, Mahsa Ghovvati, Parvin Shokrollahi, Nasim Annabi
- PoB.10.22** Amniotic membrane-derived anisotropic hydrogels for neural tissue repair.
Joana P.M. Sousa, Inês Deus, Catarina Custódio, Emmanuel Stratakis, João F. Mano, Paula A.A.P. Marques, Cátia Monteiro
- PoB.10.23** Heparin-binding domains in elastin-like proteins: a way towards tissue integration?
Ken Princen, Niels Geysmans, Wanda Guedens, Peter Adriaensens, Geert-Jan W Graulus

- PoB.10.24** Hydrogel/alginate microspheres: comparison of bulk mixing and microfluidics preparation.
Giordana M.S.M. Peregrino, Laila Kudsiova, Marco Marengo, Matteo Santin
- PoB.10.25** Fiber-reinforced elastin-like recombinamers with biomimetic anisotropic behavior for tissue engineered heart valve application.
Federica Sallustio, Amanda Schmidt, Ikram El Maachi, Martin Frydrych, Stefan Jockenhoevel, José Carlos Rodríguez-Cabello, Alicia Fernández-Colino
- PoB.10.26** Facile 3D microgel-based bioprinting using aqueous two-phase emulsion based bioresin.
Qingbo Wang, Xiaoju Wang
- PoB.10.27** Gentamycin-vancomycin loaded emulsion-based hydrogel to treat methicillin resistant *S. aureus*-orthopedic device-related infection in a single stage revision.
Claudia Siverino, Pamela Nylund, Andrew L. Foster, Willwmijn Boot, Stephan Zeiter, Geoff R. Richards, Matteo D'Este, Fintan T. Moriarty
- PoB.10.28** Decellularized extracellular matrix particle-based biomaterials for cartilage repair applications.
Jiangyao Xu, Peng Guo, Mauro Alini, Andrea Vernengo, Sibylle Gra, Jeroen Geurts, Zhen Li
- PoB.10.29** Plasmonic control of drug release efficiency in agarose gel loaded with gold-based colloids.
Alessandro Molinelli, Elisa Lacroce, Laura Polito, Filippo Rossi
- PoB.10.30** Keratin impacts matrix modulus and cell response in tissue regeneration.
A Gnanamani
- PoB.10.31** Cell migration induces apoptosis of tumor cell via inhibition Wnt- β -catenin signaling pathway.
Yao Wang, Jing He, Fang Wu
- PoB.10.32** 3D printed mechanically interlocked PLA-hydrogel interfaces.
Lorenzo B Kunkels, Mauricio Cruz Saldívar, Niko E Putra, Carlos Pitta Kruize, Sara Panahkhahi, Sander Leeflang, Lidy E Fratila-Apachitei, Mohammad J Mirzaali, Amir A Zadpoor
- PoB.10.33** Thiol-ene-based inks for standardized tissue models via stereolithography bioprinting.
Therese Steudter, Hamidreza Pirmahboub, Joachim von Arnim, Samuel Pearson, Aránzazu del Campo
- PoB.10.34** Synthesis of 4D-printable photocrosslinkable polyurethane inks for creating dynamic humidity sensors and tissue scaffolds using digital light processing.
Hossein Goodarzi Hosseinabadi, Anant Bhusal, Ali Yousefinejad, Wolfram-Hubertus Zimmermann, Leonid Ionov, Amir K. Miri
- PoB.10.35** Magnetic hydrogel activates RAS-dependent signal cascade to induce neuronal differentiation of neural stem cells.
Jun Shu, Rongrong Jin, Jing He
- PoB.10.36** Effect of photocuring parameters on viability and activity of mesenchymal stem cells.
Masoumeh Jahani Kadousaraei, Shuntaro Yamada, Markus Edward Frøyland Wiik, Samih Mohamed-Ahmed, Kamal Mustafa
- PoB.10.38** Hydrogels for the sustained release of disulfiram to treat tumors and infections.
Carmen Alvarez-Lorenzo, Maria Vivero-Lopez, Alex Alcoba-Pacheco, Alejandro Seijo-Rabina, Angel Concheiro

- PoB.10.41** Going 3D to understand astrocyte remodeling in ischemic injury: an alginate-based approach.
Georgia Athanasopoulou, Miguel R.G. Morais, Eva D. Carvalho, Ana P. Pêgo
- PoB.10.42** Beyond the matrix: exploring the mechanobiology of astrocytes in alginate-based hydrogels.
Miguel R.G. Morais, Eva D. Carvalho, Georgia Athanasopoulou, Marco Araújo, Cristina C. Barrias, Ana P. Pêgo
- PoB.10.44** Rebuilding the anti-angiogenic character of the native IVD microenvironment through the integration of thrombospondin-1 into an ECM-derived hydrogel.
Carlos Botelho, Kaoutar Chattahy, Raquel M Gonçalves, Mário A Barbosa
- PoB.10.47** Uncovering a novel hydrogel based therapeutic approach for osteoarthritis.
Nuno M Da Silva Rosa, Morena F Fiordalisi, Susana G Santos, Mário A Barbosa
- PoB.10.48** Development of hyaluronic acid-based hydrogel for local delivery of itaconic acid to enhance bone regeneration.
Maksims Kalinins, Jingzhi Fan, Liva Vita Kaufmane, Annija Vaska, Armands Sebris, Maris Turks, Kristaps Klavins
- PoB.10.50** New biomimetic matrices for wound dressing.
Maria d'Agostino, Antonella D'Agostino, Elisabetta Cassese, Chiara Schiraldi, Annalisa La Gatta
- PoB.10.51** Impact of collagen hydrogel design on embedded smooth muscle cells for optimal 3D mechanobiology study.
Chloe Techens, Amira Ben Hassine, Edwin-Joffrey Courtial, David Eglin, Stéphane Avril
- PoB.10.52** Tough attachment of hydrogels to solid materials and simultaneous agent-free cross-linking using ion-assisted plasma polymerization technique for biomedical applications.
Ghazal Shineh, Behnam Akhavan
- PoB.10.53** Characterization of the antimicrobial and physicochemical properties of essential oil-loaded collagen type I hydrogels.
Caglar Ersanli, Yves Bayon, Ioannis Skoufos, Athina Tzora, Dimitrios I Zeugolis
- PoB.10.54** The effect of hepatocyte growth factor with click chemistry based polyethylene glycol in vocal cord palsy.
Choung Soo Kim, HeeBeom Koo
- PoB.10.55** Design and characterization of chitosan-sodium alginate hydrogel for enhanced sustained delivery of lenalidomide.
Muhammad Hadi Sultan, Ahmad Salawi, Sivakumar S Moni
- PoB.10.56** Optimization strategy for reliable cytotoxicity tests in 3D fibrin gel models.
Jessica Petiti, Sabrina Caria, Laura Revel, Mattia Pegoraro, Carla Divieto
- PoB.10.57** Cell-interactive macroporous PEG hydrogels towards a human bone in vitro model.
Marion Horrer, Doris Zauchner, Wanwan Qiu, Ralph Müller, Xiao-Hua Qin
- PoB.10.58** Mimicking extracellular matrix (ECM) features for meniscal regeneration: from biomolecular signatures to biomaterials design.
Maddalena Bracchi, Alessandro Panunti, Francesca Cadamuro, Federica Barbugian, Federico Della Torre, Marco Crippa, Luca Rigamont, Marco Bigoni, Giovanni Zatti, Marco Turati, Francesco Nicotra, Laura Russo
- PoB.10.59** 3D prostate cancer in vitro models.
Khalsa Alhusaini, Annalisa Tirella, Anna Nicolaou, Marco Domingos, Esther Chaparro

- PoB.10.61** Alginate microbead encapsulation for cell therapy: reduced fibrotic response by intermediate guluronate content and sulfation.
Joachim S Kjesbu, Berit L Strand, Anne Mari Rokstad, Abba E Coron
- PoB.10.62** Engineering naturally based composite hydrogel as flexible bioadhesive for wound healing of internal organs.
Ahmet Erdem, Dilara Küçük, Feyzanur Şentürk, Aygün Iseyeva, Gökhan Duruksu
- PoB.10.63** Functional and persistent microvascular networks in a VEGF-decorated matrix: a vascularization module.
Adelin Rouchon, Priscilla S. Briquez, Dirk J. Schaefer, Jeffrey A. Hubbel, Andrea Banfi, Nunzia Di Maggio

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- PoA.11.01** A biodegradable polycarbonate with immunomodulatory properties.
Fei Chen, Stuart Young, Brian G Amsden
- PoA.11.02** Using Alginate Hydrogel Niches to Steer Monocyte Derived Macrophage Polarization by Viscoelasticity.
Raphael S. Knecht, Georg N. Duda, Katharina Schmidt-Bleek, David J. Mooney
- PoA.11.03** Modulation of Macrophage Phenotypes by Wound Dressings of Different Biomaterial Composition.
Shirin Saberianpour, Gianluca Melotto, Lucy Redhead, Rachel Forss, Matteo Santin
- PoA.11.04** Engineered amphiphilic cyclodextrin nanoparticles for macrophage repolarization.
Felix Brettner, Stefanie Gier, Annika Haessler, Sarah Vogel-Kindgen, Maike Windbergs
- PoA.11.05** Maresin-1 Loaded Zein Nanoparticles as Inducers of Pro-regenerative Microenvironments for the Treatment of Chronic Wounds.
Ana Beatriz Sousa, Judite Novais Barbosa, Mário Adolfo Barbosa
- PoA.11.07** Magnetic responsive hydroxyapatite scaffold modulated macrophage polarization through PPAR/JAK-STAT signaling and enhanced fatty acid metabolism.
Xiaqing Sun, Yao Wu
- PoA.11.08** Size Matters: The Immunoregulatory Role of Hyaluronan Molecular Weight on Dendritic cells within 3D biomimetic microenvironments.
Brian C Quartey, Jiranuwat Sapudom, Jeremy CM Teo
- PoA.11.09** Dual Responsive Nanoparticles for Precision Therapy of Rheumatoid Arthritis.
Gizem Erensoy, Luca Dirk Menges, Tilia Selldén, Alexandra Stubelius
- PoA.11.11** Genetic Engineering of Immune Effector Cells using a Peptide Technology.
Emma M McErlean, Nicholas J Dunne, Helen O McCarthy
- PoA.11.12** Effects of low dose BMP-2 on fracture healing and cytokine levels in a femur segmental defect in rats.
Maria Schröder, Lena Gens, Laura Bernhard, Daniel Arens, Dominic Gehweiler, Stephan Zeiter, Martin Stoddart, Esther Wehrle
- PoA.11.13** Multi-functionality of Dry-Etched Titanium (DETi): Exploring Immune Cell Interactions.
Benedictus I.M. Eijkel, Lidy E Fratila-Apachitei, Iulian Apachitei, Amir A Zadpoor

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- PoA.12.01** Textural properties and the mechanism of pore formation in 45S5 bioactive glass microspheres fabricated by alkali activation-flame synthesis.
Si Chen, Jozef Kraxner, Martin Michálek, Dušan Galusek

- PoA.12.02** Effect of common ion concentrations on bioactive glass dissolution *in vitro*.
Minna Siekkinen, Markus Engblom, Leena Hupa
- PoA.12.03** Structure and antibacterial activity of strontium silicate nanoparticles.
Yun-Ru Huang, Shinn-Jyh Ding
- PoA.12.04** *In vitro* Mineralization Properties of Dental Filling Materials.
Timo Peltola, Minna Siekkinen, Leena Hupa, Eija Säilynoja
- PoA.12.05** Fate of preosteoblast cell line in contact with a various alpha-tricalcium phosphate-based bone cements *in vitro*.
Oznur Demir, Dagnija Loca
- PoA.12.07** Bioinspired Mineralization Strategies for Advanced *in vitro* Bone Models.
Bregje W.M. de Wildt, Nico A.J.M. Sommerdijk, Anat Akiva, Ralph Müller, Keita Ito, Sandra Hofmann, Xiao-Hua Qin
- PoA.12.09** Nature-inspired biomineralization process for the development of a stable phycocyanin - apatite multifunctional system for biomedical applications.
Chiara Artusi, Elisabetta Campodoni, Franco Furlani, Rosaria Lauceri, Monica Sandri
- PoA.12.11** Synergistic combination of artemisinin and cerium mesoporous nanoparticles for the induction of osteogenic properties in human periodontal ligament cells.
Ioannis Tsamesidis, Georgia K. Pouroutzidou, Iason Chatzimentor, Anastasia Beketova, Evgenia Lymperaki, Maria Bousnaki, Eleana Kontonasaki
- PoA.12.13** Effect of cobalt doping in biphasic calcium phosphate nanoparticles for immunomodulation regulated bone tissue regeneration.
Deepa Negi, Yashveer Singh
- PoA.12.14** Zinc-doped bioactive glass nanoparticles for tissue regeneration.
Zuzana Neščáková, José Joaquín Velázquez García, Martin Michálek, Dušan Galusek, Aldo R. Boccaccini
- PoA.12.15** Effects of thermal cycling and acidic storage on the surface properties and biocompatibility of different dental restorative materials.
Panagiotis Pandoleon, Anna Theocharidou, Theocharidou, Eleana Kontonasaki
- PoB.12.01** β -TCP from 3D-printed scaffold can act as an effective phosphate source during the osteogenic differentiation of human mesenchymal stromal cell.
Luan Phelipe Hatt, Angela Rita Armiento, Daphne van der Heide, Maria Eugenia Pirera, Martin James Stoddart
- PoB.12.02** Calcium phosphate nanoparticles for intracellular drug delivery.
Lea Andrée, Rong Wang, Fang Yang, Merel Adjobo-Hermans, Sander C.G. Leeuwenburgh
- PoB.12.03** 3D Printing of alginate dialdehyde-gelatin hydrogels incorporating Ce and Ga-containing mesoporous bioactive glass nanoparticles for bone tissue engineering.
Fatih Kurtuldu, Nurshen Mutlu, Liliana Liverani, Dušan Galusek, Aldo R. Boccaccini
- PoB.12.06** Antiviral and antibacterial potential of air filters functionalized with Ag₂O, ZnO and CuO particles.
Bruno Filipe Gomes Ribeiro, Antonio Vazquez-Lopez, Miguel Vazquez-Puffleau, Mirella Llamosi, Julio Sempere, De--Yi Wang, José Yuste, Miriam Domenech, Javier LLorca, Monica Echeverry Rendón
- PoB.12.07** Effects of carbonate content on replacement of carbonate apatite bone substitute to new bone.
Kunio Ishikawa, Kaai Deguchi, Akira Tsuchiya

- PoB.12.08** Renacer®-fibers: A non-toxic, fully resorbable and environmentally friendly biomaterial platform.
Bastian Christ, Tobias Weigel, Christina Ziemann, Sofia Dembski, Jörn Probst
- PoB.12.09** Release products of 3D printed composite scaffolds containing copper-modified mesoporous bioactive glass have different effects on cell viability and differentiation depending on cell type and donor.
Vera Guduric, Richard F. Richter, Anne Bernhardt, Anja Lode, Michael Gelinsky
- PoB.12.10** Therapeutic elements-doped mesoporous bioactive glass nanoparticles with potential to accelerate wound healing.
Sara Pourshahrestani, Ehsan Zeimaran, Aldo Boccaccini
- PoB.12.11** Hydroxyapatite inverse opal on bioactive glass S53P4 for bone tissue engineering.
Adriana Augurio, Virginia Alessandra Gobbo, Riccardo Tognato, Mauro Alini, Jonathan Massera, Tiziano Serra
- PoB.12.12** Effect of Sr functionalized hydroxyapatite nanoparticles fabricated using different Sr sources on their physicochemical properties and *in vitro* performance.
Liga Stipniece, Anna Ramata-Stunda, Inta Kreicberga, Dora Livkisa, Anna Rubina, Artemijs Scegljovs, Jana Vecstaudza, Kristine Salma-Ancane
- PoB.12.13** Importance of the solid and liquid phase composition in calcium phosphate bone cement for the development of local drug delivery systems.
Estere Oselska, Athanasia Pylostomou, Dagnija Loca
- PoB.12.14** Calcium silicate/phosphate bioceramics with a multi-scale porosity derived from geopolymer precursor.
Tomáš Kovářik, Jiří Hájek, Michal Pola, Jana Dvořáková, Lucie Wiesnerová, Václav Babuška, Jaroslav Kadlec, Miloš Svoboda, Jan Beneš, Zdeněk Jansa

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- PoB.13.03** An injectable living hydrogel with encapsulated probiotics to fight against pathogen infections in wounds.
Siyuan Tao, Sixuan Zhang, Kongchang Wei, Katharina Maniura, Qun Ren
- PoB.13.05** Harnessing stem cells to deliver TRAIL via magnetic nanomaterial-mediated gene delivery for triple-negative breast cancer treatment.
Hsiang-Tzu Lee, Chien-Wen Jeff Chang
- PoB.13.06** Biofabrication of living materials for carbon sequestration with photosynthesis-based calcification.
Dalia Dranseikiene, Yifan Cui, Andrea Shin Ling, Felix Donat, Stéphane Bernhard, Margherita Bernero, John Oakey, Benjamin Dillenburger, Mark William Tibbitt
- PoB.13.08** Biopolymer-based strategies toward heavy metal removal and neurodegenerative diseases management.
Cristina Casadidio, Lakshmi Sathi Devi, Maria Rosa Gigliobianco, Piera Di Martino, Roberta Censi
- PoB.13.09** Cell-derived extracellular matrix – characterization, application and modification of a promising biomaterial.
Svenja Nellinger, Petra Juliane Kluger
- PoB.13.10** Cold-induced assembly of non-canonical collagens.
Mengjie Shen, Dmitrii Fedorov, Karoliina Elfving, Markus Linder, Sesilja Aranko
- PoB.13.11** Recombinant production of native-sized spider-silk proteins by engineering a novel catcher/Tag pair.

Ruxia Fan, Johanna Hakanpää, Karoliina Elfving, Helena Taberman, Markus Linder, Sesilja Aranko

- PoB.13.12** In vitro engineering of a growing cartilage using human adult mesenchymal stromal cells to study the growth plate biology.
Gangyu Zhang, Adrien Moya, Ivan Martin, Scherberich Arnaud
- PoB.13.13** A novel steerable and soft microcatheter actuated by an engineered muscle tissue.
Lorenzo Vannozzi, Carlotta Salvatori, Ignazio Niosi, Diego Trucco, Leonardo Ricotti
- PoB.13.14** Light-responsive living biomaterials based on *Lactococcus lactis*.
Aleixandre Rodrigo-Navarro, Manuel Salmeron-Sanchez
- PoB.13.16** Advantages and challenges regarding genus *Vaccinium* fruit extract encapsulation in ethosomes.
Ance Bārzdiņa, Supandeep Singh Hallan, Dace Bandere, Agnese Brangule
- PoB.13.17** Systematic optimisation and scaling-up of cost-effective bacterial cellulose production for biomedical applications.
Elliot Amadi, Mahendra Raut, Syed Mohammad Syed Daniel Mohamed, David Gregory, Gavin Welsh, Ipsita Roy
- PoB.13.18** Effective decellularization of human skin tissue for regenerative medicine by supercritical carbon dioxide technique.
Pham Ngoc Chien, Trinh Xuan Tung, Nguyen Ngan Giang, Nguyen Van Long, Nam Sun Young, Heo Chan Yeong
- PoB.13.20** Effective decellularization of porcine nerve matrix with supercritical carbon dioxide for nerve regeneration in medicine.
Nam Sun Young, Pham Ngoc Chien, Le Thi Thuy Linh, Trinh Xuan Tung, Nguyen Ngan Giang, Le Van Long, Heo Chan Yeong
- PoB.13.21** Formulation of nisin-loaded gelatin microparticles for eliciting bioactivity in bacterial nanocellulose.
Maša Hren, Janja Trček, Silvo Hribernik, Mateja Erdani Kreft, Hristina Obradović, Selestina Gorgieva
- PoB.13.22** Optimization and characterization of enzymatically crosslinked hyaluronic acid microgels for cell encapsulation.
Parisa Torabi Rahvar, Mohammad J. Abdekhodaie

Medical Devices and Metal

- PoA.14.01** Bond Strength and Adhesion Mechanisms of Novel Bone Adhesives.
Sarah J Upson, Matthew J Benning, David A Fulton, Ian P Corbett, Kenneth W Dalgarno, Matthew J German
- PoA.14.02** Recycled polysulfone-based composites with potential for load-bearing applications.
Shinn-Jyh Ding, Chi-Nan Chang
- PoA.14.03** Evaluation of bone fusion capability of interface free HA PEEK cage.
Minseong Chae, Kang-Sik Lee, Sung Tan Cho, Seung Hyun Baek, Yu-Chan Kim, Hojeong Jeon, Seung-Hoon Um, Hwachul Jung, Dongkyu Koo, Dong-Ho Lee
- PoA.14.04** Biomaterial coatings with lubricious, slippery properties for improved urinary catheter performance.
Jasmine L Ross, Colin McCoy, Matthew Wylie
- PoA.14.05** Post-operative clinical effects of intra-socket concentrated growth factor (CGF) after third lower molar extraction: a randomized controlled clinical trial.
Alberto Pispero, Elena Maria Varoni, Giovanni Sacilotto, Giovanni Lodi

- PoA.14.06** Critical size defect model in the sheep tibia with locking compression plate fixation for bone regeneration research: partial results.
Geissiane M Marcondes, Nicole F Paretsis, Anderson F Souza, Joice Fülber, Danielli CB Silva, Grazieli CM Silva, Thamires SPM Koga, Marília N Cardoso, Silvia RG Cortopassi, Ana MG Plepis, Virginia' CA Martins, André LV De Zoppa
- PoA.14.07** The effect of PET meshes on the mechanical and structural properties of a photo-curable hydroxyapatite composite intended as internal fixation in complex bone fractures.
Guillaume Patt-Lafitte, Sarah Rasolonjatovo, Daniel J. Hutchinson, Michael Malkoch, David Eglin
- PoA.14.09** Diffusion doping of analgesics into UHMWPE for pain management of total joint replacement.
Nicoletta Inverardi, Sashank Lekkala, Keith K Wannomae, Brad Micheli, Hany Bedair, Orhun K Muratoglu, Ebru Oral
- PoA.14.10** PHAsT: Sustainable and Renewable Materials for Biomedical Applications.
Andrea Mele, Ipsita Roy, David Alexander Gregory, Daniel Syed Mohammad Syed Mohamed
- PoA.14.11** Application of Computer Vision for the Assessment of Degradation-related Microstructural Changes within Injectable Cements.
Ghayadah Al-kharusi, Tanya Levingstone, Chiara Vitale Brovarone, Sonia Fiorilli, Ilaria Corvaglia, Federica Banche Niclot, Nicholas Dunne, Suzanne Little
- PoA.14.13** Comparative Evaluation of the mechanical and optical properties of Zircon-Zirconia Multiphase Ceramics in Simulated body fluid.
Gulsan A S Kazi, Bashir Ahmmad
- PoA.14.14** Development of Metallic Biomaterials: Processing and Surface Modification for Improved Biomedical Response.
Ana Lúcia do Amaral Escada, João Pedro Aquiles Carobolante, Kerolene Barboza da Silva, Rita de Cássia Reis Rangel, Danielle Duque Domingues, Celso Bortolini Jr, Andre Luis Reis Rangel, Ana Paula Rosifini Alves
- PoB.14.01** Preparation and testing of a pH-sensitive surface based on mixed oxides of titanium and iridium for the detection of inflammation around the implant.
Jitrenka Jiru, Vojtech Hybasek, Jaroslav Fojt
- PoB.14.02** Particle load and immune response in peri-implant soft tissue over osteosynthesis plates made of CFR-PEEK and titanium - A study at the proximal humerus.
Evi Fleischhacker, Christoph Martin Sprecher, Stefan Milz, Ronny Wirz, Robert Zboray, Annapaola Parilli, Maximillian Saller, Tobias Helfen, Wolfgang Böcker, Ben Ockert
- PoB.14.03** Effects of stress on corrosion of magnesium.
Takamasa Shimogami, Noriyuki Takano
- PoB.14.04** Enhanced corrosion resistance of the AZ31 magnesium alloy with electrochemical oxidised (ECO) ceramic coatings.
Berzah Yavuzyeğit, Katerina Karali, Arianna DeMori, Roxane Bonithon, Nigel Smith, Pavel Shashkov, Gordon Blunn
- PoB.14.05** Design of high throughput techniques for functional additively manufactured medical devices.
Victor M. Villapun, Luke N. Carter, Daisy Rabbitt, Xue Cao, Billy Plant, Sophie C. Cox
- PoB.14.06** Bi-layered coatings for the protection and functionalisation of Mg-based alloys.
Jonathan M A Wilson, Colin A Scotchford, David M Grant, Matthew D Wadge

- PoB.14.07** Biocompatibility and hemolytic activity of novel CuO doped CeO₂ nanoparticles.
Anastasia Beketova, Ioannis Tsamesidis, Georgia K. Pouroutzidou, Chrysanthi Papoulia, Maria Bousnaki, Eleana Kontonasaki
- PoB.14.09** Development of calcium phosphate coated biodegradable magnesium with enhanced corrosion resistance for orthopaedic applications.
Tins Sadat Hashemi, Mert Celikin, Helen O. McCarthy, Tanya Levingstone, Nicholas Dunne
- PoB.14.10** A novel, simple approach to develop hyaluronan-based wound dressings with maximized bioactivity.
Elisabetta Cassese, Emiliano Bedini, Antonella D'Agostino, Marcella Cammarota, Livio Luongo, Chiara Schiraldi, Annalisa La Gatta
- PoB.14.11** Fabrication and Characterization of a Powder-Type Anti-Adhesion Agent with Improved Tissue Adhesion Property
Oh Hyeong Kwon, Yu Jin Kim, Donghyun Lee
- PoB.14.12** Novel chitosan dermal filler with enhanced moldability and elasticity.
Ji-Ung Park, Jie Young Kim, Su Hee Kim, Misun Cha

Microenvironments /organ on chip In vitro/Engineered niche

- PoA.15.01** Green processing of SAIB/Chitin based membranes: Structural and Functional Analysis.
Cristiana Gonçalves, Simone S. Silva, Hajer Radhouani, Rui L. Reis, J. Miguel Oliveira
- PoA.15.02** An in vitro blood-air barrier model based on electrospun poly(ϵ -caprolactone) meshes as the basement membrane mimic.
Neval Sevinc Ozdemir, Halime Kenar, Vasif Hasirci
- PoA.15.03** Unraveling the Transcriptome Profile of Pulsed Electromagnetic Field (PEMF) Stimulation In Bone Regeneration Using an In Vitro Investigation Platform Based on a Perfusion Bioreactor and 3D-Printed Bone-like Scaffolds.
Farah Daou, Beatrice Masante, Stefano Gabetti, Giovanni Putame, Eleonora Zenobi, Federico Mochi, Cristina Bignardi, Federica Dell'Atti, Francesco Favero, Costantino Del Gaudio, Diana Massai, Andrea Cochis, Lia Rimondini
- PoA.15.04** Dynamic Bioreactor for Studying Mechanobiological Responses of Periodontal Ligament Cells during Orthodontic Tooth Movement.
Kuo-Hui Chiu, Mert Karpat, Johannes Hahn, Sanja Aveic, Horst Fischer
- PoA.15.05** An innovative in vitro microfluidic and three-dimensional blood-brain-barrier model able to mimic the neurovascular unit environment.
Maria Cristina Ceccarelli, Matteo Battaglini, Gianni Ciofani
- PoA.15.06** Decoupling the effects of pore size and extracellular matrix stiffness on 3D stem cell mechanosensation.
Samuel J Maher, Chrissie Astell, Sebastian E Amos, Vihara Ellepola, Yongsung Hwang, Jennifer L Young, Yu Suk Choi
- PoA.15.07** Role of Serum Protein Acidic and Rich in Cysteine and Human Serum Albumin in Cancer Drug Delivery.
Ramakrishna Prasad Are, Anju R Babu
- PoA.15.08** Decellularized extracellular matrix as a scaffold for a 3D model of Dupuytren's disease.
Jarmila Knitlova, Martina Doubkova, Adam Eckhardt, Roman Stachon, Elena Filova
- PoA.15.09** The in-vitro efficacy of GAG-collagen scaffold in induction of cell growth with/without growth factor.
Shuanfu Liu, Changhui Chen, Kevin Yen

- PoA.15.10** Vascularised Cardiac Spheroids-on-a-Chip for Testing the Toxicity of Therapeutics.
Stefania Di Cio, Malcolm Haddrick, Julien E Gautrot
- PoA.15.11** Biofabrication of a bone model for breast cancer bone metastasis drug screening.
Anaïs Lamouline, Simone Bersini, Giuseppe Talo, Chiara Arrigoni, Matteo Moretti
- PoA.15.12** Gellan gum-based hydrogels optimized with lignin or resveratrol: investigating cartilage-like tissue maturation under a normal state or oxidative stress.
Alessandro C Scalia, Stefania Cometa, Andrea Cochis Francesco Busto, Piergiorgio Gentile, Lia Rimondini, Elvira De Giglio
- PoA.15.14** Co-culture spheroids as in vitro models to replicate the inflammatory microenvironment of the vulnerable atherosclerotic plaque.
Ibukunoluwa Naiyeju, Stephanie Lehoux, Maryam Tabrizian
- PoA.15.15** The Influence of WNT Signaling on Migration of Isolated Fetal Membrane Cells.
Katharina Gegenschatz-Schmid, Eva Luzia Müller, Lukas Moser, Nicole Ochsenbein-Kölble, Martin Ehrbar
- PoA.15.16** Engineering brain ECM-like hydrogels with Schiff-base dynamic covalent cross-links.
Marta Sacchi, Antoine Hoang, Heloise Castiglione, Lucie Madrange, Frank Yates, Jean-Philippe Deslys, Isabelle Texier
- PoA.15.17** Growth and Metabolic Activity of Preosteoblast Cells in Meta-Biomaterials with Controlled Poisson's Ratio.
Ebrahim Yarali, Amir A. Zadpoor, Maria Klimopoulou, Urs Stauer, Lidy E. Fratila-Apachitei, Angelo Accardo, Mohammad J. Mirzaali
- PoA.15.18** Novel methods to analyze cell-generating tractional and intracellular force for understanding the mechanotransduction.
Sung Sik Hur, Ji Hoon Jeong, Kyung Mu Noh, Jin Kwon Chung, Jae Hong Park, Yongsung Hwang
- PoA.15.20** SERS sensing and imaging in 3D printed in vitro cancer models.
Clara García-Astrain, Malou Henriksen-Lacey, Elisa Lenzi, Paula Vázquez-Aristizabal, Patricia González-Callejo, Dorleta Jimenez de Aberasturi, Luis Liz-Marzán
- PoA.15.22** Anisotropic 3D hydrogels with spatial patterns in degradation guide hMSC differentiation.
Claudia Garrido, Daniela Garske, Shahrouz Amini, Katharina Schmidt-Bleek, Georg N Duda, Amaia Cipitria
- PoA.15.24** Alginate and hyaluronic acid-based hydrogels loaded with antioxidant nanoentities as human dental pulp stem cells carriers to improve cell therapy in central nervous system.
Sara Martín-Colomo, Gaskon Ibarretxe, Jose Ramon Pineda, Aitor Larrañaga
- PoA.15.25** Correlation between cell-material and cell-cell interactions and the formation of spheroids during culture.
Roberta Teixeira Polez, Ngoc Huynh, Chris S. Pridgeon, Juan José Valle-Delgado, Riina Harjumäki, Monika Österberg
- PoA.15.26** The antifibrotic effect of minoxidil administration on clubfoot derived cells in a crowded microenvironment.
Martina Doubkova, Jarmila Knitlova, Adam Eckhardt, Martin Ostadal, Tomas Novotny, Elena Filova
- PoA.15.28** A Synthetic Void-Forming Hydrogel for In Vitro Generation of Functional Bone Cell Networks.
Doris Zauchner, Monica Z. Müller, Leana Bissig, Feihu Zhao, Sung Sik Lee, Ralph Müller, Xiao-Hua Qin

- PoA.15.29** Spheroid Calcification for Regenerative Medicine Applications.
Steven Vermeulen, Kèvin Knoops, Hans Duimel, Denis van Beurden, Carmen López Iglesias, Stefan Giselsbrecht, Roman Truckenmüller, Pamela Habibović, Zeinab Tahmasebi Birgani
- PoA.15.31** Next-generation tissue engineering: advancing in vitro cell culture with human protein-based materials.
Catarina A Custódio, Cátia F Monteiro, Sara C. Santos, Diogo Correia, João F. Mano
- PoA.15.32** Micro-perfusion of bioengineered tissues with an automated platform to induce vascularization.
Stéphanie Boder-Pasche, Sarah Heub, Ary Marsee, Manon Garzuel, Charlotte Fonta, Diane Ledroit, Jonas Goldowsky, Réal Ischer, H. Baris Atakan, Thomas M. Valentin, Kerstin Schneeberger, Bart Spee, Gilles Weder
- PoA.15.33** Extracellular matrix as a key component in the production of functional and physiologically stable artificial pancreatic islets using the inkjet method.
Marta Klak, Dominika Ujazdowska, Oliwia Janowska, Sylwester Domański, Andrzej Berman, Michał Wszola
- PoA.15.35** Generation of three-dimensional hepatic spheroids by ink-jet method for testing the activity and cytotoxicity of drugs.
Małgorzata Popis, Oliwia Janowska, Anna Papierniak-Wyglądała, Tomasz Dobrzański, Michał Wszola, Marta Klak
- PoA.15.37** Exploring osteoblast-osteoclast interactions in an organ-on-chip model via biomimetic bone-remodeling micro-units.
Francisco Conceição, Nuno Araújo-Gomes, Johanna Husch, Jeroen van den Beucken, Jeroen Leijten, Liliana M. Teixeira
- PoA.15.38** On the communication between nuclei and mitochondria in a hydrogel environment.
Cathrine Abild Meyer, Brigitte Städler
- PoA.15.39** Pharmacological Applications of a Comparative Inflammation-on-a-Chip with Complete 3D Interface.
Soohyun Kim, Sung Kyun Lee
- PoA.15.40** Design, Fabrication, and Applications of Soft Microrobots for Thermal Biology.
Philipp Harder, Nergishan İyisan, Chen Wang, Fabian Kohler, Irina Neb, Harald Lahm, Martina Dreßen, Markus Krane, Hendrik Dietz, Berna Özkale
- PoA.15.41** Dynamic 3D culture promotes lymphoid tissue maturation and allows the study of Chronic Lymphocytic Leukemia (CLL) cells dissemination in vitro.
Dafne Barozzi, Fiorella Scagnoli, Francesco Mantegazza, Federica Barbaglio, Davide Ribezzi, Silvia Farè, Barbara Vergani, Valeria Berno, Paolo Ghia, Cristina Scielzo
- PoA.15.42** In vitro evaluation of breast cancer cells behaviour under simulated microgravity.
Silvia Strada, Cristina Volpini, Nora Bloise, Patrik Hollos, Livia Visai
- PoA.15.43** ASTROCARDIA: A heart-on-chip platform in space to study cardiac ageing.
Agnes Dobos, Kevin Tabury, Jasper Van Hoorick, Aysu Arslan, Hilde Stenuit, Martijn Reniers, Sarah Baatout
- PoB.15.01** Advanced brain-on-a-chip platforms fabricated by two-photon lithography for drug screening applications: investigations of drug delivery and target selectivity.
Attilio Marino, Matteo Battaglini, Omar Tricinci, Alessio Carmignani, Gianni Ciofani
- PoB.15.03** Application of 3D-printed β -TCP scaffolds in skeletal diseases modelling.
Ksenia Menshikh, Virginia Alessandra Gobbo, Jonathan Massera, Andrea Cochis, Lia Rimondini

- PoB.15.04** Peptide-modified biomaterial interfaces to attract and instruct bone forming cells in a non-union bone healing on-a-chip model.
Gulistan Kocer, Francisco Conceição, Dorothee Wasserberg, Nathalie Bravenboer, Jenneke Klein-Nulend, Peter Nolte, Liliana Moreira Teixeira, Pascal Jonkheijm
- PoB.15.07** Fabrication and advanced characterization of a tumor on a chip platform for cancer therapy.
Ionut-Cristian Radu, Catalin Zaharia, Madalina Necolau, Eugenia Tanasa, Bianca Galateanu
- PoB.15.08** From modular scaffold manufacturing to recapitulating endochondral ossification in perfusion bioreactor: A systematic approach to generate tailored bone-like constructs.
Benjamin Kruppke, Sandra Rother, Franziska Alt, Salman Muhammad Ilyas, Ricardo Bernhardt, Poh Soo Lee
- PoB.15.09** Enhancing the mineralization capacity of human bone progenitor cells using IL-10 and BMP-7 in a novel model of the fracture hematoma.
Matthias G Wiesli, Stefanie Kiderlen, Arlyng González-Vásquez, Katharina Maniura, Markus Rottmar, William A Lackington
- PoB.15.10** Comparison of colloidal probe and single-cell force spectroscopy techniques for the quantification of cell-material interactions.
Ngoc Huynh, Roberta Teixeira Polez, Chris S. Pridgeon, Juan José Valle-Delgado, Riina Harjumäki, Monika Österberg
- PoB.15.11** Chemical microscopy of biomaterials and their interaction with cells: A label-free and non-destructive approach.
Nathalie Jung, Felix Rohde, Till Moreth, Ernst H. K. Stelzer, Francesco Pampaloni, Maike Windbergs
- PoB.15.12** Antimicrobial, antiviral, and anti-inflammatory coatings: implementation of innovative production tools using ultrasonic waves.
Yijie Li, Chloé Guilbaud-Chéreau, Cynthia Calligaro, Nihal Engin Vrana, Philippe Lavallo
- PoB.15.13** Human 3D tendon-on-chip model to unravel cellular crosstalk in tendinopathy.
Syeda Mahwish Bakht, Alberto Pardo, Manuel Gómez-Florit, David Caballero, Subhas C. Kundu, Rui L. Reis, Rui M. A. Domingues, Manuela E. Gomes
- PoB.15.14** Using electrospun scaffolds to emulate the inflammatory microenvironment in intestinal in vitro models.
Nathalie Jung, Felix Rohde, Maike Windbergs
- PoB.15.15** High efficiency functional elucidation of human bone marrow stromal cells in vivo.
Matteo Monticelli, Bianca Maria Carrara, Katharina Gegenschatz-Schmid, Queralt Vallmajó Martín, Martin Ehrbar
- PoB.15.16** Characterization of in vivo bone organoid formation unravels developing hematopoietic niches.
Bianca Maria Carrara, Charles Bataclan, Olaia Naveiras, Martin Ehrbar
- PoB.15.17** Development of innervated 3D cartilage-engineered micro tissues using microfluidic technologies.
Emine Kahraman, Estrela Neto, Meriem Lamghari
- PoB.15.18** Bone-on-a-chip based on a 3D osteocytic network for the screening of anabolic anti-osteoporotic drug.
Sofia Avnet, Mariaveronica Lipreri, Gemma Di Pompo, Gabriela Graziani, Elisa Boanini, Nicola Baldini

- PoB.15.19** Identification of Optimal Proteins and Biomaterial Substrates for Supporting Skeletal Muscle Satellite Cell Adhesion, Growth, and Differentiation.
Aryako Rahimi, Laila Kudsiova, Matteo Santin
- PoB.15.21** Non-invasive tuning of collagen fibril orientation to recapitulate the progression of fibrosis.
Jiranuwat Sapudom, Shaza Karaman, Brian Chesney Quartey, Walaa Kamal Eldin Mohamed, Nick Mahtani, Anna Garcia-Sabaté, Jeremy Teo
- PoB.15.22** In-vitro glioblastoma model: hyaluronan as a key player of cancer invasion and metastasis.
Sara Amorim, Rui L. Reis, Ricardo A. Pires
- PoB.15.23** Green approaches based on solvent-free methods to prepare nanoparticles and on alternative in vitro models for their validation: application in the treatment of metastatic melanoma.
Carlotta Mattioda, Clara Mattu, Gianluca Ciardelli
- PoB.15.24** Development of Customized Biinks for 3D Printed Dynamic Cancer Models.
Paula Vazquez-Aristizabal, Malou Henriksen-Lacey, Clara García-Astrain, Dorleta Jimenez de Aberasturi, Ander Izeta, Luiz M Liz Marzán
- PoB.15.27** Cellulose hydrogels for immune cell ex vivo applications.
Maria Heilala, Rita Turpin, Nikolaos Pahimanolis, Nonappa Nonappa, Olli Ikkala, Pauliina M Munne
- PoB.15.28** Adipogenic Differentiation of Mesenchymal Stem/Stromal Cells in 3D Culture.
Anne Wolff, Marcus Frank, Susanne Staehlke, Olga Hahn, Kirsten Peters
- PoB.15.29** Modification of a fluidic chamber system to study biomaterials under flow conditions.
Manuel Gatzke, Stefan Oschatz, Niels Grabow, Jana Markhoff
- PoB.15.30** Engineered instructive surfaces to study muscle regeneration-degeneration in vitro.
Sarah Willems, Carlo F. Natale, Maurizio Ventre, Paolo A. Netti
- PoB.15.31** Directing the fusion, growth and remodeling of cellular microtissues to engineer anisotropic soft tissues.
Francesca D Spagnuolo, Gabriela Soares Kronemberger, Kyle Storey, Daniel John Kelly
- PoB.15.32** Chondroitin sulfate (CS-A) containing artificial extracellular matrices (aECM) coupled with low pO₂ and slightly acidic conditions enhanced chondrogenic fate of human mesenchymal stem cells (hMSCs).
Bianca de Freitas Machado, Vera Hintze, Franziska Alt, Leif Riemenschneider, Gianauelio Cuniberti, Poh Soo Lee
- PoB.15.33** Light-sensitive nanostructured device for optical modulation and control of non-excitable cell functions.
Anthea Villano, Vanessa Spagnolo, Gabriele Tullii, Maria Rosa Antognazza
- PoB.15.35** Encapsulation of Mesenchymal Stem Cells with Alginate using Microfluidic Device.
Alex Slater, Narjes Rashidi, Giordana Peregrino, Matteo Santin
- PoB.15.36** 3D Cell Migration Chip a new tool toward breast cancer modelling.
Silvia Buonvino, Joanna Filippi, Eugenio Martinelli, Dror Seliktar, Sonia Melino
- PoB.15.37** Development of 3D microphysiological systems to study intestinal stem cell fate and model early steps of tumorigenesis.
Elise Ponthier, Lucien Guth, Julie Foncy, Anne Prel, Daniel Ferri-Angulo, Laurent Malaquin, Arnaud Besson

- PoB.15.38** Feasibility study of injectable intervertebral disc-mimetic cell encapsulated microgels for nucleus pulposus regeneration.
Parisa Torabi Rahvar, Leon Schlagenhof, Mohammad J. Abdekhodaie, Benjamin Gantenbein
- PoB.15.39** Dual crosslinked glycosaminoglycan-peptide interpenetrating hydrogels with tailored viscoelasticity and degradability for directing induced pluripotent stem cell morphogenesis.
Prannoy Seth, Nicole Fertala, Yanuar Dwi Putra Limasale, Uwe Freudenberg, Carsten Werner
- PoB.15.40** Alginate hydrogel characteristics regulate NHDF biology.
Aman S Chahal, Daria Zaytseva-Zotova, Hanne Haslene-Hox, Øystein Arlov, Andrea Draget Hoel, Robin Mjelle, Wenche Iren Strand, Anita Akbarzadeh Solbu, Geir Klinkenberg, Øyvind Halaas, Vidar Beisvag, Håvard Sletta, Pål Sætrom, Berit L Strand
- PoB.15.41** Physiological mechanical stimulation improves the maturation and organization of three-dimensional cardiac bioconstructs in vitro.
Clotilde Castaldo, Anna Maria Sacco, Immacolata Belviso, Giulia Ricci, Veronica Romano, Daria Nurzynska, Angiolina Catizone, Fabrizio Schonauer, Stefania Montagnani, Franca Di Meglio
- PoB.15.42** Organ-on-chip-based in vitro approaches for co-culturing 3D human cancer tissues and circulating capillary flow-driven immune cells for more predictive drug testing and human disease modeling.
Silvia Scaglione, Elisabetta Palama, Maurizio Aiello

Musculoskeletal tissues

- PoA.16.01** Evaluation of the biological properties of biopolymer- and gold-/silver-nanoparticles-bioactive glass composites - in vivo protocol.
Alexandra I Dreanca, Eموke Pall, Corina Toma, Andreea N Astilean, Marian Taulescu, Klara Magyari
- PoA.16.02** Creating an innovative 3D-printable bone substitution ink – β -TCP and Ca polyphosphate reinforced by in situ orthophosphate polymerization.
Meik Neufurth, David Molter, Xiaohong Wang, Werner E.G. Müller
- PoA.16.03** Manufacturing and assessment of a multi-well osteoblast-osteoclast co-culture in vitro model.
Alexander Sieberath, Kenny Dalagarno, David Eglin, Elena Della Bella, Christoph Sprecher, Jochen Salber
- PoA.16.04** Dynamic in-vitro study of an aligned polymeric scaffold for tendon engineering.
Florencia Diaz, Nicholas R Forsyth, Aldo R Boccaccini
- PoA.16.05** Ferroelectric BaTiO₃ coating on beta-titanium alloy supported stem cell osteogenic differentiation in vitro and bone healing in vivo.
Elena Filova, Premysl Vanek, Ladislav Cvrcek, Elena Buixaderas, Jan Drahokoupil, Andrej Litvinec, Rastislav Ballay, Radka Vrbova, Stefan Juhas, Jana Juhasova Juhasova, Martin Bartos Bartos, Lucie Svobodova, Radek Sedlacek, Kristyna Kubasova, Lucie Bacakova Bacakova
- PoA.16.06** Collagen gel and rhPDGF-BB with collagen gel vehicle improved defect regeneration of alveolar bone in osteoporotic rats.
Hyun Ju Kim, Kyoung-Hwa Kim, Yang-Jo Seol
- PoA.16.07** Bone regeneration driven by a “green” and sustainable biocomposite scaffold for periodontal tissue application.
Mariana Souto-Lopes, Liliana Grenho, Yaideline Manrique, Madalena Dias, José Carlos Lopes, Maria Helena Fernandes, Fernando Jorge Monteiro, Christiane Salgado

- PoA.16.08** Development of a new decellularized and lyophilized human amnio-chorionic membrane for bone regeneration.
Paul Galvez, Naïma Ahmed Omar, Robin Siadous, Samantha Roques, Marlène Durand Xavier Lafarge, Florelle Gindraux, Loic Sentilhes, Nicolas L'Heureux, Jean-Christophe Fricain, Mathilde Fenelon
- PoA.16.09** Development of two novel polysaccharidic membranes for guided bone regeneration: in vitro and in vivo studies.
Naïma Ahmed Omar, Paul Galvez, Jéssica Roque, Robin Siadous, Olivier Chassande, Sylvain Catros, Joëlle Amédée, Samantha Roques, Marlène Durand, Céline Bergeaut, Laurent Bidault, Paola April, Didier Letourneur, Jean-Christophe Fricain, Mathilde Fenelon
- PoA.16.10** Development of a Bioresorbable Bone Adhesive for Bone Fixation Using Calcium Phosphate Cement, Phosphoserine, and Polydopamine Nanoparticles.
Matthias Schlund, Julien Dartus, Sarah Defrançois, Joël Ferri, Nicolas Blanchemain, Patrice Woisel, Joël Lyskawa, Feng Chai
- PoA.16.11** Evaluation of the neoformation bone using Micro CT analysis in osteoporotic rats following the application of bioactive glass and gold nanoparticles doped composites.
Aștolean Andreea Niculina, Dreancă Alexandra, Gog-Bogdan Sidonia, Tăulescu Marian, Dindelegan Maximilian, Gherman Mădalina Luciana, Magyari Klara, Oana Liviu Ioan
- PoA.16.12** Osteoinductivity and immunogenicity of engineered human cartilage grafts in immunocompetent models.
Alejandro Garcia Garcia, Sujeethkumar Prithviraj, Deepak B. Raina, Steven Dupard, Magnus Tägil, Paul E. Bourguine
- PoA.16.13** 3D Printed pectin constructs for the regulation of mesenchymal stem cell differentiation in an endochondral ossification in vitro model.
Daliila Petta, Anna Lapomarda, Chiara Arrigoni, Maria Vittoria Colombo, Mike A Geven, Elena Pulidori, Celia Duce, Christian Candrian, Giovanni Vozzi, Matteo Moretti, Carmelo De Maria
- PoA.16.14** Autologous tissue engineered graft for phalanx construction in children with symbrachydactyly, a proof of concept.
Romain Schaller, Masoor Chaaban, Gangyu Zhang, Dirk Schaefer, Alexandre Kaempfen, Ivan Martin, Scherberich Arnaud, Adrien Moya
- PoA.16.15** New advanced nanostructured coatings from mollusks for orthopaedics and dentistry.
Gabriela Graziani, Enrico Sassoni, Giuseppe Falini, Fabio Nudelman, Daniele Ghezzi, Martina Cappelletti, Matteo Montesissa, Giorgia Borciani, Tiziana Fischetti, Nicola Baldini
- PoA.16.16** Silicate and silicate bioactive glasses restore bisphosphonate-inhibited bone formation.
Maria Florez-Martin, Weijia Huang, Mohammad Aghamir, Joel Turner, Azadeh Rezaei, Kaveh Shakib, Gavin Jell
- PoA.16.17** A multifunctional coating strategy for promotion of immunomodulatory and osteo/angiogenic activity.
Jidong Li, Shiqi Xiao, Yubao Li
- PoA.16.18** Comparative study of novel 3D printed bioceramic b-TCP implants and off-the-shelf b-TCP implants.
Sif S Dahl, Nanna B Madsen, Martin B Jensen
- PoA.16.19** Unravelling the role of biomaterial properties in orchestrating osteoclastogenic events during biomaterials-driven bone regeneration.
L. Fermin, D. de Melo Pereira, H. Yuan, N. Davison, E. R. Balmayor, P. Habibovic, Z. Tahmasebi Birgani

- PoA.16.20** A biomimetic in vitro bone model based on osteoclasts-osteoblasts spheroidal co-culture.
L. Fermin, N. Davison, E. R. Balmayor, P. Habibovic, Z. Tahmasebi Birgani
- PoA.16.22** 3D printed nanocomposite scaffolds with the potential to enhance osteogenesis-angiogenesis coupling.
Athanasios Xanthopoulos, Eleni Mourkogianni, Artemis Tsirogianni, Lykourgos Kontaxis, Constantinos Athanassopoulos, Vassilis Kostopoulos, Despoina Deligianni, Evangelia Papadimitriou
- PoA.16.23** Degradable thiol-ene composites for bone repair.
Jorge San Jacinto, Daniel J Hutchinson, Natalia Sanz del Olmo, Michael Malkoch
- PoA.16.24** A clinical translation path for human engineered & decellularized, osteoinductive extracellular matrices.
Sebastien Pigeot, Alejandro Garcia-Garcia, Thibaut Klein, Anke Wixmerten, Sylvie Miot, Andrea Montali, Tim Buchholz, Lena Gens, Dominic Gehweiler, Dirk Nehrbass, Deepak B. Raina, Magnus Tägil, Stephan Zeiter, Paul E. Bourguine, Ivan Martin
- PoA.16.25** Bioactivity of pyromelanin and pyromelanin-modified polymer/nano-hydroxyapatite composites in the process of targeted bone tissue regeneration.
Mateusz M. Urbaniak, Przemysław Płociński, Marcin Włodarczyk, Monika Biernat, Paulina Tymowicz-Grzyb, Agnieszka Antosik, Anna Woźniak, Adrian Najmrodzki, Monika Nowak, Justyna Sawicka, Sylwia Rodziewicz-Motowidło, Małgorzata Gazińska Karolina Rudnicka
- PoA.16.26** Development of a low-intensity pulsed ultrasound print-head to drive the differentiation of 3D bioprinted skeletal stem cells.
Martina Marcotulli, Chiara Scognamiglio, Andrea Barbetta, Giancarlo Ruocco, Dario Carugo, Gianluca Cidonio
- PoA.16.28** LOOKING AT SCAFFOLD-BASED STRATEGY FOR BONE DISEASE MANAGEMENT: FROM DRUG LOADING TO ALTERNATIVE ANTIMICROBIAL AGENTS.
Elisabetta Campodoni, Sara Bernardoni, Valentina Possetti, Antonio Inforzato, Cristina Sobacchi, Monica Sandri
- PoA.16.29** Engineered 3D-printed vascularized hydrogels for efficient presentation of growth factors.
Oana Dobre, Xie Ruoxiao, Liliang Ouyang, Molly Stevens, Manuel Salmeron-Sanchez
- PoA.16.30** pMHMGCL melt electrowritten scaffolds covalently grafted onto silk fibroin methacryloyl hydrogels to improve the mechanical properties of cartilage constructs.
Martina Viola, Madison Ainsworth, Marko Mihajlovic, Miguel Castilho, Jos Malda, Tina Vermonden
- PoA.16.31** Polyhydroxyalkanoate/bioactive glass 3D printing composite scaffolds with antimicrobial properties for bone tissue engineering applications.
Andrea Mele, Ipsita Roy, Aldo Roberto Boccaccini, Atiq Ur Rehman Muhammad
- PoA.16.32** Assessment of cell migration into fibrin hydrogels in an ex-vivo murine bone model.
Miruna Chipara, Richard Moakes, Melissa Finlay, Amy Naylor, Liam Grover
- PoA.16.33** Biomimetic bioreactors as a tool for more relevant biomaterial assessment.
Jovana Zvicer, Jasmina Stojkovska, Djordje Veljovic, Mia Milosevic, Bojana Obradovic
- PoA.16.34** Biomechanical analysis of a novel osteosynthesis device with standard and physiological testing.
Peter Schwarzenberg, Thomas Colding-Rasmussen, Daniel J Hutchinson, Jorge San Jacinto Garcia, Stine Jacobsen, Peter Horstmann, Michael Mørk Petersen, Dominic

Mischler, Viktor Granskog, Tatjana Pastor, Tine Weis, Michael Malkoch, Christian Wong, Peter Varga

- PoA.16.35** Phosphoserine-enhanced alpha-TCP adhesive for improved bone regeneration with novel mechanical and handling properties.
Antzela Tzagiollari, Gerard Insley, Philip Procter, Benjamin Pippenger, Ole Zoffmann Andersen, Helen O. McCarthy, Tanya J. Levingstone, Nicholas J. Dunne
- PoA.16.36** Pleiotrophin-loaded mesoporous silica nanoparticles as a possible treatment for osteoporosis.
Daniel Lozano, Beatriz Leiva, Inés S Gómez-Escalonilla, Sergio Portal-Núñez, Arancha R de Górtazar, María Vallet-Regí, Miguel Mazano
- PoA.16.37** Delivery of osteoanabolic genetic cargo using a peptide-based delivery system for healing of large bone defects.
Ahmed Elkashif, Monika Ziminska, Jordan Wilson, John Redmond, Antzela Tzagiollari, Auden Balouch, Seth Donahue, Nicholas J Dunne, Helen O McCarthy
- PoA.16.39** Tailored polyelectrolyte multilayer systems by variation of polyelectrolyte composition and EDC/NHS cross-linking: Controlled drug release vs. drug reservoir capabilities and cellular response for improved osseointegration.
Uwe Schirmer, Johanna Ludolph, Klaus Liefeth, Christina Behrens, Henning Schliephake
- PoA.16.43** Gallic acid-functionalized, MgO nanoparticle-loaded hydrogels for the treatment of rheumatoid arthritis.
Yashika Thakur, Yashveer Singh
- PoA.16.44** Novel device for vacuum-assisted loading of hydrogel into a PCL-TCP scaffold for bone tissue engineering applications.
Jolene Quek, Yen Choo, Kee Woei Ng
- PoB.16.01** Biofabrication of microtissue-derived constructs for articular cartilage repair.
Gabriela S Kronemberger, Francesca D Spagnuolo, Kyle J Storey, Daniel J Kelly
- PoB.16.02** An acellular self-healed trilayer cryogel combined with acupuncture as a new approach to induce osteochondral regeneration.
Tsai-Yu Chen, Shan-hui Hsu, Niann-Tzyy Dai Dai, Tsung-Kai Wen
- PoB.16.03** Constructing a Cellular Scaffold Using Photo-crosslinkable Polymer Hydrogel For Artificial Cartilage.
Ryoma Takagi, Tadashi H Nakaji, Chiaki Yoshikawa
- PoB.16.04** Porous acellular PHB/CHIT based scaffold as a promising biopolymer in treatment of chondral and osteochondral defects.
Eva Petrovova, Marek Tomco, Lenka Luptakova, Zuzana Demcisakova, Zuzana Tirpakova, Lubomir Medvecký
- PoB.16.05** Bioadhesive Microcapsules as a New Cellular Treatment for the Diffuse Cartilage Lesions.
Desiré Venegas-Bustos, A Vega-Castrillo, JC Rodríguez-Cabello, M Alonso-Rodrigo
- PoB.16.06** Braided, Long-Term Biodegradable Scaffolds for Anterior Cruciate Ligament Tissue Engineering: A Biomechanical Investigation.
Caroline Emonts, Pauline Riedl, Benedict Bauer, Thomas Gries
- PoB.16.07** Development of a Multilayered, Bifunctional Substitute for Osteochondral Tissue Engineering: An in vitro study.
Deniz Basoz, Vasif Hasirci, Deniz Yucel

- PoB.16.08** Analysing the impact of tendon biomimetic scaffold morphology and chemical composition on immunological recognition.
Sara Gil Cantero, Francesco Iorio, Irem Unalan, Veronica Pinnaro, Sarojinidevi König, Claus Wenhardt, Peter Steinberger, Aldo R Boccaccini, Johannes Stöckl
- PoB.16.09** Core-Shell Microgels as a Platform for the Chondrogenic Differentiation of Mesenchymal Stem Cells.
Chun-Chi Yang, Chien-Wen Jeff Chang
- PoB.16.10** Novel, biocompatible thermoplastic polyurethanes and their aligned porous scaffolds for uterosacral ligament reconstruction.
Charlie Bateman, Biqiong Chen
- PoB.16.11** Designing an immunomodulatory, biomimetic ACL graft based on cellulose nanostructures.
Matthew A Graham, Julie Gough, Leela Biant, Ahu Dumanli
- PoB.16.12** Biofabrication of a 3D model of Human Skeletal Muscle to study muscular fibrosis.
Riccardo Francescato, Giuseppe Talò, Megi Ishmaku, Simone Bersini, Matteo Moretti
- PoB.16.13** Alginate-based biomaterials for the formation of 3D bovine muscle tissue.
Sergio Spaans, Lea Melzener, Guy Wijler, Nicolas Hauck, André Pötgens, Mark Post, Arin Doğan
- PoB.16.14** Resorbable high-strength suture for orthopedic fixation of soft tissue.
Benedict Bauer, Caroline Emonts, Louisa Bonten, Thomas Gries
- PoB.16.15** Development of Imaging System of Extracellular Matrix Using Multiple Wavelength Lights for Cultured Cartilage.
Shota Minami, Koji Yamamoto, Yusuke Morita
- PoB.16.16** Effects of proliferation period on myoblast differentiation for tissue-engineered skeletal muscle fiber.
Nao Takahashi, Koji Yamamoto, Yusuke Morita
- PoB.16.17** Effect of electrical stimulation on contractility and myokine secretion from tissue-engineered skeletal muscle.
Kaito SASAKI, Tomohiro NAKAMURA, Toshia FUJISATO
- PoB.16.18** Injectable thermo-sensitive interpenetrated network based on chitosan hydrogel for intervertebral disc repair.
Inès Hamouda, Francesco Touani Kameni, Atma Adoungotchodo, Sophie Lerouge
- PoB.16.19** Characterization of heparin-conjugated poly(ϵ -caprolactone)/gelatin aligned nanofibers for tendon tissue engineering.
Francesco Iorio, Mohammad El Khatib, Valentina Russo, Barbara Barboni, Aldo R. Boccaccini
- PoB.16.20** A Chitosan-based injectable hydrogel for drug delivery and viscosupplementation in the treatment of temporomandibular joint disorders.
Henry Chijcheapaza-Flores, Florent Barry, Marie Béret, Nicolas Tabary, Frédéric Cazaux, Feng Chai, Nicolas Blanchemain, Bernard Martel, Romain Nicot, Maria José Garcia-Fernandez
- PoB.16.21** Understanding Soluble Silicate Species (Si) Interactions with Bone Cells.
Joel Turner, Adriana Radu, Lloyd Zheng, Azadeh Rezaei, Julian R Jones, Gavin Jell
- PoB.16.23** Myokine secretion from tissue-engineered skeletal muscle and its collection by hydrogel encapsulation.
Toshia Fujisato, Manaka Sai, Takaya Iwai, Sho Yokoyama, Tomohiro Nakamura

- PoB.16.24** In vitro Comparison of Four Types of Commercially Available Scaffolds for Cartilage Tissue Engineering.
Arianna De Mori, Ian Graney, Marta Roldo, Gordon Blunn
- PoB.16.25** Engineering freestanding multilayered membranes as delivery vehicles for cell-based therapies in early-osteoarthritis.
Sónia G. Patrício, Catarina T. Passos, Maria P. Sousa, Marian Fürsatz, Haeshin Lee, João F. Mano, Sylvia Nürnberger
- PoB.16.26** Encapsulation of umbilical cord-derived stem cells toward an in vitro model for endochondral ossification.
Mariana Carreira, Inês Fernandes, Sónia Patrício, Clara Correia, Sara Nadine, João Mano
- PoB.16.27** Lack of cartilage surface preservation with PMOXA in collagenase-induced osteoarthritis rat model.
Sami Kauppinen, Lucia Baixauli Marin, Gonçalo Barreto, David Fercher, Patrick Weber, Ville-Pauli Karjalainen, Salla-Mari Tuutijärvi, Giulia Morgese, Edmondo Benetti, Simo Saarakkala, Marcy Zenobi-Wong, Mikko AJ Finnilä
- PoB.16.28** A human-scaled knee biomimetic bioreactor for patient-specific osteochondral tissue engineering.
Adrian Djalali-Cuevas, Noelia Campillo, Juan Antonio Marchal, José M. Baena
- PoB.16.29** Decoupling the chemical and structural properties of collagen to study tendon regeneration.
Francesca Giacomini, David Barata, Hoon Suk Rho, Zeinab Tahmasebi Birgani, Stefan Giselbrecht, Roman Truckenmüller, Pamela Habibović
- PoB.16.30** Enthesis inflammation-on-a chip.
Francesca Giacomini, Zeinab Tahmasebi Birgani, Hoon Suk Rho, Maria José Eischen-Loges, Martijn van Griensven, Stefan Giselbrecht, Pamela Habibovic, Roman Truckenmüller
- PoB.16.31** Cytokine-induced osteoarthritis platform for evaluating miRNA-based therapeutic polyplexes.
Annachiara Scalzone, Xiao Nong Wang, Ana Marina Ferreira-Duarte, Kenny Dalgarno, Piergiorgio Gentile
- PoB.16.32** Characterization of photo-crosslinkable methacrylated gellan gum hydrogels for the in situ treatment of chondral defects.
Alessia Bacci, Diego Trucco, Lorenzo Vannozzi, Elena Gabusi, Enrico Lenzi, Cristina Manfredini, Liliana Agresti, Maria Rosaria Pascale, Sandra Cristino, Gina Lisignoli, Leonardo Ricotti
- PoB.16.33** Polycarbonate-Urethane Articulation on Cartilage – a Pin-on-Disc in Vitro Study.
Roger Claude von Mentlen, Lea Tiziana Dal Fabbro, Daniel Baumgartner, Viola Mai
- PoB.16.37** Meeting a clinical need with an advanced biomimetic adhesive material: development of a novel porcine osteochondral fragment fixation model.
Alicja J Bojan, Philip Procter
- PoB.16.38** Bioengineering an inflammatory model of AF failure in 3D collagen type I hydrogels.
Ana Luísa Castro, Mário A Barbosa, Raquel M Gonçalves
- PoB.16.39** A biofidelic platform for preclinical assessment of hydrogel efficacy in multiaxially loaded intervertebral discs.
Amra Šećerović, Marcia Mürner, Francesco Crivelli, Sarah Heub, Gilles Weder, Stephen J Ferguson, Diane Ledroit, Sibylle Grad

- PoB.16.41** Pro-Chondrogenic anti-inflammatory biomaterial-based therapy for Articular Cartilage: Ibuprofen vs Diclofenac loaded Chitosan/Poly-gamma-glutamic Acid Nanoparticles.
Beatriz Ribeiro, Ana Luisa Castro, Cristiana Couto, Sofia Pilao, Cristina Ribeiro, Mario M Barbosa, Susana G Santos, Raquel M Goncalves
- PoB.16.42** Cell-derived extracellular matrix tailoring using CRISPR/dCas9: a novel intervertebral disc regeneration strategy.
Catarina Milheiro, Raquel M. Gonçalves, Mario Amendola, Mário A. Barbosa, Joana Caldeira
- PoB.16.43** Incorporation of Decellularised Anterior Cruciate Ligament Extracellular Matrix in an Aligned Fibre Tissue-Polymer Hybrid Scaffold to Promote an Enhanced Cellular Response and Ligament Protein Deposition.
Dominic Andrew Williams, Michael McNicholas, Jonny Blaker, Julie Elizabeth Goug
- PoB.16.44** Multi-layer hybrid scaffolds for articular cartilage repair.
Rachel Cordeiro, Nuno Alves, Ana C. Maurício, Carla Moura
- PoB.16.45** Bioprinted Nano-Zirconia composite scaffolds for Intervertebral disc restoration.
Julia Ce de Andrade, Philipi Cavalcante Ricardo, Frank Jorg Clemens, Bruno de Castro Henriques, Marcio Celso Fredel
- PoB.16.46** An investigation of the fluid structure interaction in articular cartilage across disparate scales.
Emily J Butler, David Head, Mark Walkley, Michael Bryant, Greg de Boer
- PoB.16.47** Chitosan biomineralized with ions-doped nanohydroxyapatite as a cytocompatible and anti-bacterial tool for bone regeneration.
Franco Furlani, Alfredo Rondinella, Matilde Clarissa Malfatti, Matteo Zanocco, Elisabetta Campodoni, Barbara Skerlavaj, Monica Sandri, Gianluca Tell, Lorenzo Fedrizzi
- PoB.16.48** BMP-2 along with ERK inhibitor and Phenamil effectively enhance osteogenesis of human adipose-derived stem cells cultured on SrO- or ZnO-modified bioactive glass-PLGA composites in static and dynamic cultures.
Karolina Truchan, Barbara Zagrajczuk, Katarzyna Cholewa-Kowalska, Anna Maria Osyczka

Nano-Biomaterials

- PoA.17.01** Polydopamine nanoparticles as a photoacoustic contrast agent.
Matteo Battaglini, Alessio Carmignani, Paolo Armanetti, Luca Menichetti, Margherita Montorsi, Gianni Ciofani
- PoA.17.02** NIR-II activated photothermal/NO combination therapy from plasmonic heterostructured nanotherapeutics against triple-negative breast cancer.
Hsin-Cheng Chiu, Reesha Kakkadavath Vayalakkara
- PoA.17.03** Synthesis of biobased emitters for application in sustainable optoelectronics.
Jia Wang, Yongfeng Liu, Shi Tang, Henry Opoku, Ludvig Edman
- PoA.17.05** Anti-CD44 antibody decorated gold nanoparticles for endometriosis photothermal therapy.
Cristina Volpini, Nora Bloise, Mattia Dominoni, Fabio Barra, Valerio Gaetano Vellone,
- PoA.17.06** Dipeptide mediated biosynthesis of zinc (hydro)oxide nanoparticles on biohybrid nanofibers; a wound healing material.
Shahin Homaeigohar, Mhd Adel Assad, Amirhossein Azari, Mady Elbahri
- PoA.17.07** The end of orthopedic device-related infections using dhvar5-chitosan nanogels fabricated by microfluidic.

Bruna Costa, Pedro Alves, Diana Fonseca, Filipa Campos, Ana C. Monteiro, Rúben Pereira, Paula Gomes, Guillermo Martínez-de-Tejada, Cláudia Monteiro, M.C.L Martins

- PoA.17.08** Nanodiamonds for sequestration of fibroblast growth factor-2.
Stepan Stehlik
- PoA.17.09** Multifunctional Eu³⁺-tannic acid nanocomplexes for targeted bone regeneration under oxidative and inflammatory microenvironments.
Daniel Fernández-Villa, María Rosa Aguilar, Luis Rojo
- PoA.17.10** Impact of physicochemical properties of biofilms on nanoparticle-biofilm interactions: toward development of high-efficacy nanodrugs against multidrug-resistant biofilms.
Mihyun Lee, Qun Ren Zulian
- PoA.17.11** Influence of the different structures of cerium (IV)-oxide nanoparticles on the applicability in biological systems.
Zsejke Réka Tóth, Alexandra Dreancă, Emma Bobu, Alexandra Feraru, Lilla, Nánai, Kata Saszet, Lucian Baia, Klara Magyari
- PoA.17.12** Assessment of antioxidant activity and biocompatibility of the graphene oxide-based nanocomposite material for tissue engineering applications.
Bansod Sneha Bharat, Thirumalai Deepak, Ramakrishna Prasad Are, Anju R Babu
- PoA.17.13** Characterization of novel biomaterials to enable mechanobiology studies of living cells.
Maximilian Seuss, Dimitar R Stamov, Tanja Neumann, André Körnig, Torsten Müller, Heiko Haschke
- PoA.17.14** Designing novel photo-crosslinked metacryloyl gelatin (GelMA)-based nanogels for drug delivery applications.
Roberta Pappalardo, Monica Boffito, Valeria Chiono, Gianluca Ciardelli
- PoA.17.15** Evaluation of the antibacterial properties of Ce and Ca co-doped mesoporous silicate nanoparticles produced by the sol gel method.
Anastasia Beketova, Georgia K. Pouroutzidou, Veronica S. Giourieva, Konstantinos Tsachouridis, Rigini M. Papi, Ioannis Tsamesidis, Antonios D. Anastasiou, Petros Koidis, Eleana Kontonasaki
- PoA.17.16** Manganese-loaded CMChT-PAMAM nanoparticles for magnetic resonance Imaging in biomedical applications.
Eduarda P. Oliveira, F. Raquel Maia, Lorena Colás, Rui L. Reis, Pedro Ramos-Cabrer*, J. Miguel Oliveira*
- PoA.17.17** Insights into the effects of magnetic nanoparticles and their heating mechanisms on healthy and tumor cell lines.
Joana Santos, Catarina Rolo, João Paulo Borges, Tânia Vieira, Paula I.P. Soares
- PoA.17.18** Biocompatibility and osteogenic potential of cerium oxide nanoparticles.
Iason Chatzimentor, Ioannis Tsamesidis, Maria Bousnaki, Maria-Eleni Ioannou, Georgia K. Pouroutzidou, Eleana Kontonasaki
- PoA.17.20** Tailoring PLA surface with anchor lipids to fabricate transmembrane protein-loaded nanometric bioresorbable platform.
Ahmed HM Mohammed-Sadhakathullah, Paria Pashazadeh-Panahi, Sofia Paulo-Mirasol, Elaine Armelin, Slawomir Sek, Juan Torras
- PoA.17.21** Topical skin delivery of tyrosinase using functionalized carbon nanotubes.
Woojin Jeong, Min Jeong Lee, Junghyeon Ko, Nathaniel S Hwang, Seon-Yeong Kwak
- PoA.17.22** Stabilizing polymer coatings alter the protein corona of DNA origami and can be engineered to bias the cellular uptake.
Hugo J. Rodríguez-Franco, Jorieke Weiden, Pauline Hendrickx, Maartje M.C. Bastings

- PoA.17.23** Engineering DNA-based nanoparticles with lipid coating for cytoplasmic drug delivery.
Pauline Hendrickx, Sarina Kopf, Maartje Bastings
- PoB.17.01** Osteoinductive properties of SAPO zeolites and metal organic frameworks synthesized with lithium and calcium.
Cristian Covarrubias, Camila Torres, Daniel Vargas, Amaru Agüero, Miguel Neira, David Beltrán, Rolando Vernal, Benjamin Le Monnier, Michael Tsapatsis, Emma Whitehead, Warren Grayson
- PoB.17.02** Effect of Cerium Precursor to Gelatin Ratio on the Development of Cerium Oxide Nanoparticles.
Georgia K. Pouroutzidou, Konstantinos Tsachouridis, Ioannis Tsamesidis, Anastasia Beketova, George Vourlias, Antonios D. Anastasiou, Eleana Kontonasaki
- PoB.17.04** Effect of synthesis modifications on the biological behavior of cerium oxide NPs.
Ioannis Tsamesidis, Dimitrios Gkiliopoulos, Anna Theocharidou, Diana Samara, Athanasios Lettas, Eleana Kontonasaki
- PoB.17.05** Sustainable synthesis of nano- and micro- particles in microfluidic reactors.
Konstantinos Tsachouridis, Antonios D Anastasiou
- PoB.17.06** Ciprofloxacin-loaded mucosomes outperform the free drug in the treatment of *S. aureus* and *P. aeruginosa* lung-resident in vitro infections.
Giuseppe Guagliano, Cosmin S Butnarusu, Elisa Restivo, Paola Petrini, Livia Visai, Sonja Visentin
- PoB.17.09** Covalent organic framework nanosheet anchored with highly dispersed Au nanoparticles as a novel nanoprobe for DNA methylation detection.
Yao Wu
- PoB.17.10** Hydrophilic magnetic covalent organic frameworks for highly integrated pre-enrichment and analysis of colorectal cancer differential glycoproteomics.
Zhiyu Li
- PoB.17.11** Processable 1D Conductive nanocomposite of Polypyrrole Structured by Cellulose Nanofibril for Constructing Biointerfaces and Bioscaffolds.
Xiaoju Wang, Shujun liang
- PoB.17.12** Hybrid Extracellular Vesicles-Liposomes Camouflaged Magnetic Vesicles Cooperating with Bioorthogonal Click Chemistry for High-Efficient Melanoma Circulating Tumor Cells Enrichment.
Ke Kang, Yujia Zhang, Xiaoxi Zhou, Yue Yu, Nanhong Zhu, Jia Cheng, Qiangying Yi, Yao Wu
- PoB.17.13** Flame-Spray-Synthesis of ultrabright, nanoscale near-infrared fluorescent copper silicates for in vivo bioimaging.
Robert Nißler, Quanyu Zhou, Björn Hill, Benjamin Mächler, Xosé Luís Deán-Ben, Sebastian Kruss, Daniel Razansky, Inge Katrin Herrmann
- PoB.17.16** Nanofibrous cellulose hydrogel as release reservoir for light sensitive liposomes.
Zahra Gounani, Puja Gangurde, Vili-Veli Auvinen, Patrick Lauren, Tatu Lajunen, Timo Laaksonen
- PoB.17.18** Tumor pH-triggered Vanadium carbide nanosheets degradation enabled NIR-II photothermal cascade catalysis treatment against breast cancer.
Jun Cao, Hai Zhu, Bin He
- PoB.17.19** Antibacterial activity of functionalized carbon nanoparticles.
Alicja K. Olejnik, Radosław A. Wach, Bożena Rokita, Justyna Fraczyk, Anna Gajda, Beata Kolesinska, Anna Karczewska, Ahmed El-Mallul, Dariusz Witkowski

- PoB.17.20** Biological characterization of Zn containing SiCa mesoporous nanoparticles for periodontal regeneration.
Anastasia Beketova, Ioannis Tsamesidis, Georgia K. Pouroutzidou, Chrysanthi Papoulia, Maria Bousnaki, Petros Koidis, Dagnija Loca, Eleana Kontonasaki, Janis Locs
- PoB.17.22** Cytotoxicity studies of functionalized carbon nanoparticles.
Bożena H. Rokita, Radosław A. Wach, Alicja K. Olejnik, Anna Gajda, Beata Kolesinska, Anna Karczewska, Ahmed El-Mallul, Dariusz Witkowski
- PoB.17.23** Challenges of the preparation and biocompatibility of the cannabidiol-containing liposomes.
Margarita Brante, Andra Grava, Arita Dubnika

Soft Tissues and Organs

- PoA.18.01** Transplantation of neuron-inducing grafts embedding positively charged gold nanoparticles for the treatment of spinal cord injury.
Seil Sohn
- PoA.18.02** Functionalization of soft contact lens with copolymer modification.
Tadashi Nakaji-Hirabayashi, Jun Isobe, Chizuko Ishihara, Shusaku Mandai
- PoA.18.04** Poly(sebacic-co-ethylene glycol anhydride) microparticles loaded with azithromycin as drug delivery systems to the lungs.
Konrad Kwiecień, Karolina Knap, Rick Heida, Dorota Ochońska, Joanna Płonka, Daria Niewolik, Alicja Kazek-Kęsik, Katarzyna Reczyńska-Kolman, Monika Brzychczy-Włoch, Katarzyna Jaszcz, Peter Olinga, Elżbieta Pamuła
- PoA.18.05** Encapsulation of hydrophobized tobramycin in polyanhydride microparticles to treat lower respiratory tract infections.
Karolina Knap, Konrad Kwiecień, Gabriela Markowicz, Daria Niewolik, Dorota Ochońska, Katarzyna Jaszcz, Monika Brzychczy-Włoch, Elżbieta Pamuła
- PoA.18.06** Engineering of a glomerular filtration unit of the kidney using polyhydroxyalkanoates.
Syed Mohammad Daniel Syed Mohamed, Jack Tuffin, Elbaraa Elghazy, Judy Watson, Caroline Sarah Taylor, Hamta Majd, Mohan Edirisinghe, Gavin Welsh, Ipsita Roy
- PoA.18.08** High throughput biofabrication of in vitro connective tissue and fibrotic model representative of glaucoma.
Hannah C Lamont, Michael Jones, Showan N Nazhat, Liam M Grover, Alicia J El Haj, Anthony D Metcalfe
- PoA.18.09** Generation and characterization of scaffolds for peripheral nerve tissue engineering through 3D bioprinting technology.
Miguel Etayo-Escanilla, Óscar Darío García-García, José Manuel Baena, David Sánchez-Porras, Noelia Campillo, Víctor Carriel
- PoA.18.10** Decellularized porcine liver: Improved scaffold preparation and its characterization including initial cell-scaffold interaction.
Vladimira Moulisova, Lenka Cervenkova, Maria Stefania Massaro, Richard Palek, Jachym Rosendorf, Roshan Kumar Singh, Miroslav Jirik, Lukas Bolek, Shashank Pandey, Magdalena Chottova-Dvorakova, Claudia Schindler, Janine Arlt, Sandor Nietzsche, Uta Dahmen, Vaclav Liska
- PoA.18.11** Development and characterisation of commercial ophthalmic biomaterials for contact lens applications.
Gregor Mack, Adyl-Michaël El Guamra, Paul Demian, Mouad Lamrani, Julie Gough, Michael Read, Philip Morgan
- PoA.18.12** Improved treatment of bladder disease through hydrogel augmentation.

Paige J LeValley, Alexandre H. C. Anthis, Thomas Rduch, Inge K Herrmann

- PoA.18.13** Replacement of decellularized tissues by synthetic 3D fibrous polymer scaffolds: full thickness equivalents of the small intestine and airways.
Niklas Pallmann, Sabrina Herrmann, Tobias Weigel, Christina Fey, Jeanne Mérignac-Lacombe, Rinu Sivarajan, Totta Ehret-Kasemo, Agmal Scherzad, Stephan Hackenberg, Maria Steinke, Daniela Zdzieblo, Jörn Probst, Florian Groeber-Becker
- PoA.18.14** Investigating the effects of local delivery of glial cell-derived neurotrophic factor on neurite growth in vitro and ex vivo.
Rebecca Lomax, Fred Claeysens
- PoA.18.15** Natural polymer based nerve guidance conduit design to increase vascularization in peripheral nerve tissue regeneration.
Dila Hatun SAL, Caroline S. Taylor, Emmanuel Asare, John W. Haycock, Ipsita Roy
- PoA.18.16** Skin models for the prevention of pressure injuries in newborns.
Tino A. Jucker, Simon Annaheim, René M. Rossi
- PoA.18.17** Development of tribological skin models for the investigation of material - skin interaction.
Magda I. Plaga, Fabian Itel, Nicola Migliore, Rolf Stämpfli, Simon Annaheim, René M. Rossi
- PoA.18.18** Evaluation of the performance of a ZnO-nanoparticle-coated hydrocolloid patch in wound healing.
Le Thi Van Anh, Trinh Xuan Tung, Pham Ngoc Chien, Nguyen Ngan Giang, Zhang Xin Rui, Nam Sun Young, Heo Chan Yeong
- PoA.18.19** A regenerative bioadhesive for the treatment of infected corneal ulcers.
Yashoda Chandorkar, Annina Mittelholzer, Kongchang Wei, Kuldeep Dole, Shilpa Joshi, Simon Pot, Markus Rottmar
- PoA.18.20** Development of a 3D-printed bio-hybrid skin model for photothermal therapy applications.
Dardan Bajrami, Fabrizio Spano, Kongchang Wei, Mathias Bonmarin, René Rossi
- PoA.18.21** Bioactive bacterial nanocellulose loaded with bromelain as a promising strategy for the enzymatic debridement of burns.
Urška Jančič, Janja Trček, Selestina Gorgieva
- PoB.18.01** Self-supporting films from hyaluronan derivatives for wound healing applications.
Josef Chmelař, Vojtěch Pavlík, Jana Bažantová, Jiří Mrázek, Lenka Součková, František Ondreáš, Eva Kriváková, Lukáš Kubala, Luboš Sobotka, Vladimír Velebný
- PoB.18.02** Biochemical and Biomechanical clues to promote angiogenesis for tissue engineering application.
Jéssica Pinto, Belén Arteaga, Ana Guerra, Renato Natal, Fernando Monteiro, Christiane Salgado
- PoB.18.03** Use of freeze-dried human amniotic membrane of umbilical cord (hAM-UC) as scleral patch graft for treatment of scleral thinning.
Laurence Barnouin, Justine Bosc, Florine Grossetete
- PoB.18.04** Scaffold properties aside from stiffness modulate myofibroblast activation without using biochemical signals.
Anna DY Rhodes, Claire Higgins, Nuria Oliva
- PoB.18.05** Effect of resection line geometries on the stress distribution near the resection line.
Hitomi Sakai, Sumiko Maeda, Noriyuki Takano
- PoB.18.06** Human skin equivalent epidermis/derma and endothelial barrier with immune cell components: a case report for skin sensitization.

Edith Filaire, Dario Fassini, Marina Simon, Pierre Gaudriault, Christian Poinot

- PoB.18.07** Effect of bioactive glass with spherical gold nanoparticles in diabetic wound healing.
Klara Magyari, Sorin Marza, Mirela Moldovan, Zsejke-Reka Toth, Ionel Papuc, Lucian Baia
- PoB.18.08** Antithrombotic modification of hair-derived keratin.
Soki Sonohara, Kazuya Sawada, Toshia Fujisato
- PoB.18.10** Tunable patterning of vascular networks for hierarchical tissue engineering.
Silvia Pravato, Lisa A. Krattiger, Dhananjay V. Deshmukh, Jürg Dual, Silvia Farè, Mark W. Tibbitt, Martin Ehrbar
- PoB.18.11** Lung organoids formed from mouse primary cells.
Kouhei Adachi, Toshia Fujisato
- PoB.18.12** Evaluation of in vitro self-assembly of microvessels-like structures induced by co-culture of human osteoblasts and human dermal microvascular endothelial cells on silicate, zinc co-substituted hydroxyapatite.
Paula Milena Giraldo-Osorno, Tim Kreuz, Daniel V Bax, Farah Asa'ad, Margarita Trobos, Serena M Best, Anders Palmquist
- PoB.18.13** Development of dermo-epidermal skin substitute scaffold using reverse bioengineering.
Prasad Sawadkar, Jia Hua, Karin Greco, Ferdinand Lali
- PoB.18.14** Antibacterial Bacteriocin-Modified Nanocellulose Wound Dressing for Treatment of Wound Infections.
Elisa Zattarin, Emanuel Wiman, Zeljana Sotra, Yagmur Bas, Kristina Hanna, Jonathan Rakar, Linn Berglund, Robert Selegård, Emma M. Björk, Hazem Khalaf, Kristiina Oksman, Johan P. E. Junker, Torbjörn Bengtsson, Daniel Aili
- PoB.18.15** Nanofibrous proteolytic mats for wounds and burns sensitive debridement.
Miroslava Rysova, Hana Tomankova, Milena Maryskova, Marketa Schaabova, Pavel Kejzlar, Alena Sevcu
- PoB.18.16** Using the Chicken Ex Ovo Chorioallantoic Membrane Model as a Pre-Screening Method for Evaluation of Angiogenesis in an Acellular Porous Biomaterial Based on Polyhydroxybutyrate and Chitosan.
Zuzana Demcisakova, Lenka Luptakova, Zuzana Tirpakova, Alena Kvasilova, Lubomir Medvecký, Ward De Spiegelaere, Eva Petrovova
- PoB.18.17** Fresh printing of sacrificial 3D network for 3D in vitro models development.
Matteo Pitton, Chiara Liguori, Silvia Farè
- PoB.18.18** Epidermis-on-a-chip for toxicological evaluation of cosmetic nanoformulations.
Ana Rosa Ribeiro, Samantha Costa, Ana Beatriz Carneiro
- PoB.18.19** Diverging nano-fiber architectures and their influences on an immortalized motoneuronal cell line as a model system to study neurodegenerative diseases.
Maya Kasteleiner, Nicoletta Murenu, Zan Lamberger, Gregor Lang, Natascha Schäfer
- PoB.18.20** Hydrogel platform for modeling retinal pigment epithelium interaction with retina.
Sanna Korpela, Heli Skottman, Soile Nymark, Teemu O Ihalainen
- PoB.18.22** Plasma-activated hydrogels for in vitro fibrotic cardiac tissue modelling.
Inès Hamouda, Alice Zoso, Elena Marcello, Valeria Chiono

Polymeric Materials

- PoA.19.03** Encapsulation phenomena of PLA-PCL blending.

Fabiana Amiri, Pierpaolo Fucile, Gianmarco Nuzzo, Massimiliano Zingales, Lorenzo Moroni

- PoA.19.04** Crystallinity index and mechanical properties of explanted polyethylene cup.
Jaroslav Lukes, Vlastimil Kralik, Miroslav Slouf
- PoA.19.05** In vivo release kinetics and histopathological evaluation of a PDMS-based balloon-type drug delivery device.
Muhammad Tausif, Jin-Kyu Park, Sohee Kim
- PoA.19.07** Cryopreservation by intracellular permeation of zwitterionic polymers.
Ryota Yamasaki, Kazuaki Matsumura
- PoA.19.08** Relationship between structure and cryoprotective effect of synthesized polyampholytes using variable-temperature solid-state NMR.
Ryota Yamasaki, Robin Rajan, Kazuaki Matsumura
- PoA.19.10** Spinning of high-strength Poly (vinyl alcohol) fiber with high orientation -Approach by addition of salt-
Yusuke Taoka, Riza Asmaa Saari, Takumitsu Kida, Masayuki Yamaguchi, Kazuaki Matsumura
- PoA.19.11** Facile preparation of hydrogel with high mechanical strength by syndiotactic rich Poly (vinyl alcohol).
Yusuke Taoka, Miyu Nakazawa, Kazuaki Matsumura
- PoA.19.12** Design and fabrication of a fully biodegradable oral device for GI delivery of macromolecules.
Reece McCabe, Lasse Højlund Eklund Thamdrup, Mahdi Ghavami, Anja Boisen
- PoA.19.13** Stabilization of polyampholytes coacervates by PEGylation during phase separation behavior.
Tomoka Hirose, Kazuaki Matsumura
- PoA.19.14** Hybrid composites of polyampholytes and liquid metals as next-generation temperature-responsive DDS carriers.
Tomoka Hirose, Eijiro Miyako, Kazuaki Matsumura
- PoA.19.15** Mechanical characterization of thermoformed and non thermoformed polyethylene terephthalate glycol and 3D printed shape memory resin used for orthodontic aligners production.
Sara Drago, Marco Migliorati, Virginia Astio, Alberto Lagazzo
- PoA.19.16** Silk sericin nanomaterials as carriers for therapeutic substances in cancer therapy.
Catalin Zaharia, Ionut-Cristian Radu, Bianca Galateanu, Madalina Necolau, Ariana Hudita, Eugenia Tanasa, Cosmin Catalin Mustaciosu, Roxana Popescu
- PoA.19.17** Polymeric oxygen-generating microparticles as enhanced synthetic erythrocytes.
Francisca L. Gomes, Roger Mora, Jasper van Weerd, Pascal Jonkheijm, Jeroen Leijten
- PoA.19.19** A modular microfluidic platform for development of biomedical fiber materials.
Kongchang Wei, Wuchao Wang, Khushdeep Sharma, René M. Rossi, Luciano F. Boesel
- PoA.19.20** Doxorubicin-loaded chitosan-copper microspheres for the treatment of bone tumor.
Andrea Lončarević, Sandra Clara Trujillo, Leonard Bauer, Gloria Gallego Ferrer, Anamarija Rogina
- PoA.19.21** Antimicrobial self-conforming silicone-based sponge for rapid hemostatic treatment.
Pritha Sarkar, Kausik Mukhopadhyay
- PoA.19.22** In vivo biocompatibility and tissue response of poly(glycerol sebacate urethane) scaffolds.

Andreas Samourides, Zacharoula Xenou, Despoina Kokkinidou, Kyriakos Spanoudes, Konstantinos Kapnisis, Andreas Anayiotos

- PoA.19.23** Development of multi-kinase inhibitor encapsulated polymeric nanoparticles for potential treatment of hepatocellular carcinoma.
Mattika Thaweesuvannasak, Chatchawan Srisawat, Vorapan Sirivatanauksorn, Nathachit Limjunyawong, Primana Punnakitikashem
- PoB.19.01** New device for tissue adhesion using heat produced by ultra-vibration of polymeric material.
Megumi Higuchi, Toshia Fujisato
- PoB.19.02** Anisamide-targeted Poly(beta aminoester) nanoparticles encapsulating mTOR siRNA for lung cancer therapy.
Antoni Torres, Cristina Fornaguera, Coral Garcia, Salvador Borros
- PoB.19.03** Novel, Biomimetic Poly(Glycerol Sebacate) Based Elastomers for Adipose Tissue Engineering.
Reece Griffith, Biqiong Chen
- PoB.19.04** Playing with microfluidics: a straightforward approach to obtain chitosan nanoparticles functionalized with antimicrobial peptides.
Diana R. Fonseca, Estrela Neto, Beatriz Custódio, Sofia Guimarães, Pedro M. Alves, Rúben F. Pereira, Paulo Freitas, Marco Martins, Cátia Teixeira, Paula Gomes, Paula Parreira, M. Cristina L. Martins
- PoB.19.06** Exploring laser-patterning of never-dried bacterial nanocellulose (BNC) envisioning the development of immunomodulatory surfaces.
Lígia Costa, Alexandre F. Carvalho, António J.S. Fernandes, Florinda M. Costa, Miguel Gama
- PoB.19.07** Zwitterionic terpolymer brush with enhanced antifouling properties: a tool to prevent implant infections.
Alina Pilipenco, Guruprakash Subbiahdoss, Michala Forinová, Monika Spasovová, Oleksandr Romanyuk, Alexandr Dejneka, Erik Reimhult, Hana Vaisocherová-Lísalová
- PoB.19.08** Rational design of a multi-compartmentalized conformable implant for brain cancer.
Irene Guerriero, Cristiano Pesce, Daniele Di Mascolo, Anna Lisa Palange, Paolo Decuzzi
- PoB.19.09** Unexpected Unique Properties of Conducting Polymer.
Petr Humpolíček, Daniela Jasenská, Věra Kašpárková, Ondřej Vašíček, Lukáš Münster
- PoB.19.10** Adhesive films based on marine-derived fucoidan and chitosan with antibacterial potential.
Cátia Correia, Diana S. Costa, Ana Rita Inácio, A. Catarina Vale, Daniela Peixoto, Tiago H. Silva, Rui L. Reis, Iva Pashkuleva, Natália M. Alves
- PoB.19.11** Development of Novel Cyclodextrin-based Nanogels for hydrophobic drug delivery.
Yanjing Ji
- PoB.19.13** TRAP-6 modified PVA materials as a potential treatment of chronic wounds.
Miriam Zintl, Raffael Reichsöllner, Xiao-Hua Qin, Heinz Redl, Paul Slezak
- PoB.19.14** Widely applicable theranostics based on poly[N-(2,2-difluoroethylacrylamide)].
Kristyna Kolouchova, Ondrej Groborz, Vit Herynek, Laurens Parmentier, Anna Szabo, Lana Van Damme, Martin Hruby, Richard Hoogenboom, Sandra Van Vlierberghe
- PoB.19.15** Complex polyester-poly(glycerol methacrylate) copolymer architectures for regulating cell activation and targeted drug delivery.
Ilaria Porello, Francesco Cellesi

- PoB.19.16** Combination of microwave-assisted polycondensation and UV-curing in polyglycerol sebacate synthesis.
Mariella Rosalia, Davide Rubes, Maddalena Patrini, Massimo Serra, Aldo Boccaccini, Ida Genta, Rosella Dorati, Bice Conti
- PoB.19.18** Blending PHBV and PCL with PLLA for enhanced mechanical properties.
Raasti Naseem, Giorgia Montalbano, Georgia-Ioanna Kontogianni, Priscila Melo, Matthew German, Piergiorgio Gentile, Ana Marina Ferreira, Maria Chatzinikolaidou, Kenneth Dalgarno
- PoB.19.19** Surface modification of a 3D-printed polyurethane stent-graft for anti-thrombotic properties.
Kim Vanden Broeck, Michel Daher, Mickaël Maton, Nicolas Tabary, Maria-José Garcia-Fernandez, Thomas Menard, Jonathan Sobocinski, Feng Chai, Bernard Martel, Nicolas Blanchemain
- PoB.19.20** Biodegradable polyesters blends in urological applications.
Anna Sobczyk-Guzenda, Karolina Rosinska, Dorota Bociaga
- PoB.19.21** Modifying physical, mechanical and microstructural properties of lactide-based (co)polymers.
Pieter van Delft, Caitlin Pieneman, Erik Kroeze

Porous Scaffolds

- PoA.20.02** Annealing high aspect ratio microgels into macroporous 3D scaffolds allows for higher porosities and effective cell migration.
Alisa Celina Sutura, Andreas Josef Dietrich Krüger, Kathrin Neidig, Nina Klos, Michelle Bund, Nina Dolfen, Till Gronemann, Rebecca Sebers, Anna Manukanc, Ghazaleh Yazdani, Yonca Kittel, Dirk Rommel, Tamas Haraszti, Jens Köhler, Laura De Laporte
- PoA.20.03** 3D-Printed nanoporous scaffolds for engineering T cell activation and transduction.
Morteza Aramesh, Lotte Duijn, Cecilia Persson
- PoA.20.04** The comparison of the effect of fetal bovine serum, human platelet lysate and hyperacute serum on growth and differentiation of human adiposed tissue-derived mesenchymal stem cells.
Eva Filová, Věra Hedvičáková, Veronika Hefka Blahnová, Aiva Simaite, Monika Šupová, Håvard Jostein Haugen, Olga Kuteń Pella
- PoA.20.06** Investigating novel multi-functional coatings via LbL assembly for their use in bone tissue scaffold development to improve the mechanical integrity of open cell structures and enhance bone defect reparation through the incorporation of therapeutic agents.
Aoife McFerran, Patrick Lemoine, Brian J. Meenan, Jonathan G. Acheson
- PoA.20.07** Biopolymeric cryogels based on alginate-gum arabic polysaccharides as biodegradable macroporous scaffolds.
Alexandra Feraru, Zsejke Réka Tóth, Marieta Mureşan-Pop, Monica Baia, Tamás Gyulavári, Emőke Páll, Klára Magyari, Lucian Baia
- PoA.20.08** Combining phase separation and particulate leaching with 3D printing to fabricate porous scaffolds for bone tissue engineering applications.
Mehmet Serhat Aydin, Theo Jean Luciani, Samih Mohamed-Ahmed, Kamal Mustafa, Ahmad Rashad Elsebahy
- PoA.20.10** Natural polymer-based hemostatic dressings: A promising approach for achieving effective hemostasis in deep wounds.
Kaushal Shakya, Vivek Verma

- PoA.20.11** Chitosan functionalized MWCNTs as reinforcement of bioresorbable polymers designed for bone tissue engineering: Preparation of 3D-printed scaffolds, mechanical characterization, and cell response.
Lykourgos C Kontaxis, Artemis Tsirogiani, Dafni Graikioti, Athanasios Kotrotsos, Athanasios Xanthopoulos, Constantinos M Athanassopoulos, Vassilis Kostopoulos, Evangelia Papadimitriou, Despina Deligianni
- PoA.20.12** Printing speed as a key factor in finite element analysis prediction of mechanical properties of melt electrowritten scaffolds.
Piotr Stanisław Zieliński, Zhaohang Zhang, Ilaria Squillante, Marcus Koch, Giuseppe Portale, Anastasiia Krushynska, Marleen Kamperman, Małgorzata Katarzyna Włodarczyk-Biegun
- PoA.20.13** Porous iron-based 3D systems as biodegradable implants.
Gabriela Gasior, Marlena Grodzicka, Tomasz Jędrzejewski, Jarosław W. Drelich, Aleksandra Radtke
- PoA.20.14** Curvature-induced cell suturing controls tissue formation in small tissue defects with implications for biomaterial design.
Aaron Herrera, Georg N Duda, Isabel Orellano, Erik Brauer, Alicia Serrano, Rose Behncke, Hans Leemhuis, Ansgar Petersen
- PoA.20.16** Tunability of scaffolds for bone regeneration by core-shell design and additive manufacturing of bioresorbable polymers.
Chiara Pasini, Stefano Pandini, Matteo Ferroni, Federica Re, Domenico Russo, Luciana Sartore
- PoA.20.20** 3D printed plga scaffolds impregnated with adenoviral constructs for effective gene delivery.
Maria A Khvorostina, Victoria O Mokrousova, Irina A Nedorubova, Tatiana B Bukharova, Vladimir K Popov, Anatoly A Kulakov
- PoA.20.21** Design and fabrication of calcium phosphate scaffolds with concave surfaces by direct ink writing.
Irene Lodoso-Torrecilla, Ethan Segura, Oriol Romeu, Maria-Pau Ginebra
- PoA.20.22** Biofunctionalised 3D-printed gellan gum scaffolds for bone tissue regeneration.
Alessandra Soriente, Ugo D'Amora, Alfredo Ronca, Stefania Scialla, Paola Manini, Alessandro Pezzella, Giovanna Calabrese, Maria Grazia Raucci, Luigi Ambrosio
- PoA.20.23** Manufacturing of dense biphasic (HA/ β -TCP) scaffolds with macroporous architecture by stereolithography.
Stéphane Hocquet, Danielle Madufo Tchuyassi, Florian Jean, Marie Lasgorceix, Jean-Marie Raquez
- PoA.20.24** The taiwanese cirripede exhibits promising bioceramic and bioactive properties in bone graft.
Long Chang, Zhi-Hong Wen
- PoB.20.02** New Insights into the Thixotropic Behaviour of Insoluble Collagen Type I Suspensions for Scaffold Production.
Emma Z Gough, Serena M Best, Ruth E Cameron
- PoB.20.03** Mechanically compliant 3-Dimensional spongy scaffold for bone tissue engineering.
Anupama Devi V. K., Amit Kumar Jaiswal
- PoB.20.04** Tailorable mechanical and biochemical properties of mineralized collagen scaffolds for controlled local BMP-2 release.
Leonie Schlicht, Anne Bernhardt, Johannes Jähnichen, Richard Richter, Gauri Tendulkar, Anja Lode, Michael Gelinsky

- PoB.20.08** Optimal Crosslinking of Layer-by-Layer Assembly Coated Porous Bone Scaffolds for Stable Mechanical Performance under Hydrated Conditions.
MohammadAli Sahebalzamani, Tanya Levingstone, Helen O. McCarthy, Nicholas Dunne
- PoB.20.09** Regulated porous structure by SLM technique effects on release of Sr ions incorporated into Ti surface by chemical and heat treatment.
Seiji Yamaguchi, Tomiharu Matsushita
- PoB.20.10** Additive manufactured porous titanium with graded structure balancing bone ingrowth and antibacterial activity: Mechanical property and ion-release capacity.
Seiji Yamguchi, Mahmoud Elroubi, Phuc Thi Minh Le, Seine A Shintani, Hiroaki Takadama, Tomiharu Matsushita, Hisashi Kitagaki, Shintaro Honda, Yaichiro Okuzu, Shunsuke Fujibayashi
- PoB.20.11** Ice-templated collagen scaffolds for culturing alveolar organoids.
Vivien Alves Passing, Daniel V. Bax, David J. Barrett, Kyungtae Lim, Emma L. Rawlins, Ruth E. Cameron, Serena M. Best
- PoB.20.12** Ways to enhance mechanical and biological properties of biomimetic 3D-printed calcium phosphate bone grafts: PLGA-based strategies.
Linh Johansson, Yago Raymond, Cédric Labay, Miguel Mateu Sanz, Maria-Pau Ginebra
- PoB.20.13** Ice-templated Hierarchically Porous 3D Silica Nanoparticle Assemblies as Implants for Controlling Anticancer Drug Delivery.
Sandeep Kumar Palvai, George Newham, Stephen D Evans, Zhan Yui Ong
- PoB.20.15** Collagen from marine sponge *Chondrosia reniformis* on the production of porous scaffolds for tissue engineering.
Miguel S Rocha, Catarina F Marques, Ana C Carvalho, Eva Martins, Rui R Reis, Tiago H Silva
- PoB.20.16** Design and evaluation of a crosslinked chitosan-based scaffold containing hyaluronic acid for the articular cartilage tissue engineering.
Salim Hamidi, Henry Chijcheapaza-Flores, Frédéric Cazaux, Bernard Martel, Nicolas Blanchemain
- PoB.20.18** Combination of hydrogel with PolyHIPE materials for 3D cell culture.
Sweeta Akbari, Mart Kroon, Minna Kellomäki, Jari Hyttinen
- PoB.20.19** Poly(L-lactide-co-glycolide)/poly(isosorbide sebacate) electrospun fibers as a biodegradable platform for vascular regeneration.
Monika Śmiga-Matuszowicz, Jakub Włodarczyk, Małgorzata Skorupa, Dominika Czerwińska-Główka, Kaja Fołta, Małgorzata Pastusiak, Małgorzata Adamiec-Organiecki, Magdalena Skonieczna, Roman Turczyn, Michał Sobota, Katarzyna Krukiewicz
- PoB.20.20** Porous chitosan/bioglass composites, dedicated to filling bone defects, enriched with biologically active peptide fibrils - production and properties.
Monika Biernat, Anna Woźniak, Lidia Ciołek, Justyna Sawicka, Milena Chraniuk, Mirosława Panasiuk, Piotr Bolin, Beata Gromadzka, Sylwia Rodziewicz-Motowidło, Zbigniew Jaegermann
- PoB.20.21** The effect of calcium phosphate particles on degradation process of porous polymer scaffolds for bone regeneration.
Monika Biernat, Anna Woźniak, Agnieszka Szablowska, Agata Kurzyk, Paulina Tymowicz-Grzyb, Adrian Najmrodzki, Agnieszka Antosik, Joanna Pagacz, Piotr Szterner, Andrzej Plichta, Piotr Wieciński, Mirosław Kasprzak

- PoB.20.22** 3D printing as a tool for cartilage engineering: novel bioinks based on methacrylated gelatin, poly(aspartic) acid, hyaluronic acid and biofermentative chondroitin.
Celeste Di Meo, Lauren De Grave, Nicola Alessio, Sandra Van Vlierberghe, Annalisa La Gatta, Chiara Schiraldi
- PoB.20.25** hBMSC-Seeded 3D Chitosan-Gelatin-Genipin Scaffolds Enhance Extracellular Matrix Mineralization When Cultured Under Perfusion Flow.
Gabriele Boretti, Emanuele Giordano, Mariana Ionita, George Mihail Vlasceanu, Ólafur Eysteinn Sigurjónsson, Paolo Gargiulo, Joseph Lovecchio

Sensing

- PoA.21.03** Novel multi-azide polyoxazoline coating.
Tobias Komsthöft, Niccolò Bartalucci, Mark W Tibbitt, Samuele Tosatti, Stefan Zürcher
- PoA.21.04** DNA tetrahedron and metal-nanoparticle tagging powered CRISPR/Cas12a-based biosensor for multiplex HPV-DNA genotype analysis.
Xiaohui Zhan, Fang Lan, Yao Wu
- PoA.21.05** Magnetic metal-organic framework composites for detection of circulating tumor DNA.
Fang Lan, Peng An, Yao Wu
- PoA.21.06** Highly sensitive detection of melanoma exosomal PD-L1 via a self-calibrated magnetic aptamer sensor with dual lanthanide-assisted time-resolved luminescence.
Nanhang Zhu
- PoA.21.07** Organ origin identification of circulating tumor cells based on AND logic recognition-triggered hybridization chain reaction.
Qiangying Yi
- PoA.21.09** Microfluidic chip-based optical sensing platform for ovarian cancer multimarkers.
Neelam Vishwakarma, Suman Singh
- PoA.21.10** Oxidase-based enzymatic assessment of diabetes biomarkers.
Andrea Rescalli, Luca Casanova, Elena Maria Varoni, Francesco Cellesi, Pietro Cerveri
- PoA.21.11** Synthesis of a wearable strain sensor using AgNW and PANI.
Halldór Kárasón, Pierluigi Ritrovato, Francesco Tortorella, Nicola Maffulli, Aldo Boccaccini

Surfaces

- PoA.22.01** Atmospheric pressure plasma spraying of hydroxyapatite coatings w/o zinc alloying on 3D printed, temperature and distortion sensitive polymer and titanium implants for reconstruction of face, jaw and finger bone defects.
Juergen M. Lackner, Dietmar F Kopp, Wolfgang Waldhauser, Reinhard Kaindl, Andreas Hinterer, Maximilian Stummer, Felix Spiess, Bernd Pretenthaler, Guenter Russmueller, Barbara Kapeller, Roman Major
- PoA.22.02** Positive regulation of osteogenesis on titanium surface by modification of nanosized Ca²⁺-exchanged EMT zeolites.
Minghan Chi, Na Li, Neha Sharma, Florian Markus Thieringer
- PoA.22.03** Modelling heparin binding domain of fibronectin onto polymer surfaces by using molecular dynamics simulations.
Viswanath Vittaladevaram
- PoA.22.04** Surface functionalization of cell culture plates for biomolecule immobilisation using plasma treatment.
Clara Thao Hoang Tran, Xuege Feng, Stuart Fraser, Marcela Bilek

- PoA.22.06** Characterization of the functional layer formed on titanium bone wedge and drug stability in polymer after sterilization processes.
Alicja Kazek-Kęsik, Weronika Maciak, Jakub Adamek, Monika Śmiga-Matuszowicz, Małgorzata Krok-Borkowicz, Anna Taratuta, Marcin Basiaga
- PoA.22.07** Development of a photoresponsive drug delivery system targeting dopaminergic neurons.
Hajar Alghamdi, Giuseppe Mantovani, Keith Spriggs, Pavel Gershkovich, Mischa Zelzer
- PoA.22.09** Metallic glass thin films, microfibers and bulk systems for biomedical applications.
Elham Sharifikolouei, Baran Sarac, Sara Ferraris, Ziba Najmi, Andrea Cochis, Alessandro Calogero Scalia, Sergio Perrero, Maryam Aliabadi, Silvia Spriano, Lia Rimondini
- PoA.22.10** Layer-by-layer deposition of silk fibroin aqueous solution: Mechanical and adhesion properties.
Benedetta Isella, Alexander Kopp, Ted J Vaughan
- PoA.22.11** Erythrocyte-inspired lipid membranes for improved particle hemocompatibility.
Francisca L. Gomes, Rick Edelbroek, Jasper van Weerd, Pascal Jonkheijm, Jeroen Leijten
- PoA.22.12** Plasma-activated coatings for rapid, covalent, linker-free biomolecule attachment to cell culture surfaces-from the research bench to the commercialisation space.
Stuart T Fraser, Thao H Tran, Kanako Coffi Dit Gleize, Badwi B Boumelhem, Jameel Sardharwalla, Auriol Purdie, Aaron Gilmour, Xuege Feng, Shelley FJ Wickham, Marcela MM Bilek
- PoA.22.15** Bioinstructive light-curable coatings direct pericellular laminin to induce hemidesmosome formation on transepithelial implants.
Nicholas G. Fischer, David A. De Jong, Conrado Aparicio
- PoA.22.16** Differences of cell migration between ADSC and osteoblast differentiated from ADSC by micro-patterned surface and electrical stimulation.
Mi Hee Lee, Jong-Chul Park
- PoB.22.01** Neural interfacing biomaterials coated with the firmly tethered neuro-specific lipid bilayer.
Md Lemon Hasan, Ga Eul Kim, Mahmoud A. Elnaggar, Chun Ho Kim, Yoon Ki Joung
- PoB.22.02** Anchor peptides: a robust and versatile technology for the functionalization of medical and healthcare materials.
Niklas Herrmann, Manuela Garay-Sarmiento, Alexander Boes, Elisabeth Heine, Felix Jakob, César Rodriguez-Emmenegger, Ulrich Schwaneberg
- PoB.22.03** A study of surface parameters causing a change in bacterial activity over magnesium alloys for future implant materials.
Vivek Singh Yadav, Lalit Mohan Pandey
- PoB.22.04** Coating of neurovascular stents to improve their efficiency.
Dyhia Kersani, Marie Lacaze, Eric Largen, Benoit Ho-tin-noe
- PoB.22.05** Exploring the Properties of Zwitterionic Polymer Brushes using Surface Enhanced-Raman Spectroscopy.
Monika Spasovová, Marek Procházka, Josef Štěpánek, Ivan Barvík, Ondřej Kylián, Markéta Vrabcová, Milan Houska, Alexandr Dejneka, Nicholas Scott Lynn, Hana Vaisocherová Lísalová
- PoB.22.06** Supramolecular biomaterials encompassing peptide amphiphiles, biopolymers and graphene oxide for tissue engineering.
Maria Lopes, Joana Sousa, Paula A. A. P. Marques, João Borges, João F. Mano

- PoB.22.07** Controlled biomimetic approach for implant surface modification.
Agnese Carino, Simon Berner, Philipp Gruner, Federico Dalcanale, Michael de Wild2, Walter Moser, Simon Göddeke, Burkard Höchst, Andrea Testino
- PoB.22.08** Surface functionalization of medical devices by plasma treatment and peptide immobilization for antimicrobial coatings.
Mohadeseh Zare, Artemis Stamboulis
- PoB.22.09** EXTRACELLULAR MATRIX-MIMETIC PEPTIDE HYDROGELS FOR CONTROLLED CELL ADHESION AND TISSUE FORMATION.
Vytautas Cėpla, Airina Mazėtytė-Godienė, Tadas Jelinskas, Romuald Eimont, Tomas Rakickas, Ramūnas Valiokas
- PoB.22.10** Bioactive coatings of titanium implants containing Sr and Zn. From nano self-assembling monolayers to biohybrid sol-gel coatings.
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- PoB.22.11** Biologically-relevant interactions at the polyurethane surface: in silico and in vitro studies.
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- PoB.23.08** Designing the next generation of biomaterials through screening hybrid cell-microparticle spheroids.
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- PoB.23.17** Simple fabrication of a conductive bilayer film with a cellulose nanoparticle composite suspension.
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- PoB.23.18** Light-induced nanoscale deformation in azobenzene thin film triggers rapid intracellular Ca²⁺ increase via mechanosensitive cation channels.
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- PoB.23.19** Molecular Orientation and Optimization of Membrane Dyes Based on Conjugated Oligoelectrolytes.
Ji-Yu Zhu, Guillermo Carlos Bazan

SOCIAL ACTIVITIES

Run/Walk around Lake Davos



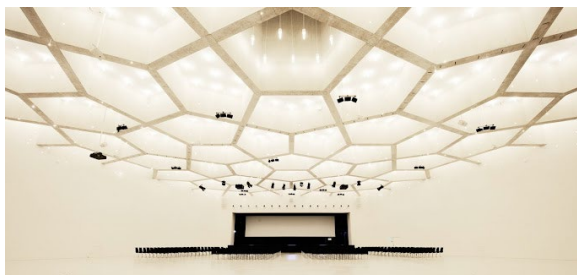
<https://my.raceresult.com/236609/results?lang=en>

On Wednesday 6th of September join us on a run/walk around the beautiful Davos Lake.

The path is mostly flat, although due to a construction site one extra small climb is added to the standard path. The meeting point is at “Bachi's Strandbad Davos” at 13.00. We will get ready, take a group picture at 13:15, and start the run at 13:30 and the walk at 13:40. During the [registration](#) process, please let us know if you prefer running or walking.

Bibs with numbers will be assigned to all participants. Runners, after the race, can check their result at:

Conference Gala Dinner



On Thursday September 7th, join us for ESB2023 Gala Dinner at Davos Congress Center. The dinner will start at 19:30 and will be followed by musical entertainment.

Tickets are available until Tuesday September 5th for delegates and accompany persons at the registration desk.

Young Scientist Forum Night Out



The Young Scientist Forum night out will take place at [Mountain Restaurant Höhenweg Parsenn](#) on Wednesday, September 6th at 19:30. Two drinks and dinner are included.

The travel times of the mountain railway are as follows:

Outward: 7:35 and 7:50 pm

Return: 11:20 pm and 12:20 am

“Young Scientists” are those eligible to the Jean Leray Award, i.e. up to 40 years of age and less than

8 years after PhD graduation: <https://www.esbiomaterials.eu/cms/content/jean-leray-award> .

Researchers beer – casual conversations about research for all



September 5, 2023

Location: Kulturplatz Davos, Promenade 58c, Davos Platz

Start: 8:00 PM

Graubünden has a diverse and an internationally well-connected scientific landscape. The Davos research institutes, which employ more than 300 researchers, are part of this. In addition, there is a large number of research-interested locals and guests who populate the “Science City”.

At the “[Researchers Beer](#)” in the foyer of the Kulturplatz Davos, scientists and citizens with a

thirst for knowledge meet at on the first Tuesday of the month to exchange ideas and get to know each [esb2023.org](https://www.esb2023.org)

other. To each “Researchers Beer” the [Academia Raetica](#) invites a person from its scientific network, who talks about their research in Graubünden shares their knowledge with the audience.

On September 5, the Academia Raetica welcomes Claudia Loebel as our special guest. Claudia completed her PhD in Health Sciences and Technology at ETH Zurich and the AO Research Institute Davos in 2016. Since 2021, she has been leading her own research group at the University of Michigan, the Loebel Lab. Together with her team, she develops biomaterials and engineering technologies to better understand how cells interact with their extracellular microenvironment. On the occasion of the ESB conference, we welcome her back to Davos.

The event will be held in English. Participants of the ESB conference are cordially invited to attend the Researchers Beer. No registration necessary.

Contact:

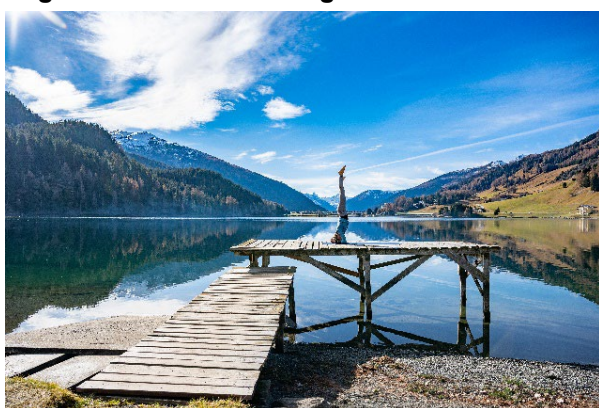
Academia Raetica

Barbara Haller Rupf

barbara.haller@academiaraetica.ch

Tel. 081 410 60 80

Yoga class in the morning



From Tuesday until Thursday, the early birds can join a 30 minutes Yoga class at 7.30 AM at the conference center. On Friday the class will start at 8.00 AM. Places are limited and based on a first-come, first-serve priority. To participate, delegates must get a (free) ticket at the registration desk. Conference organizers and Yoga class instructors decline every responsibility in case of injuries.

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