


PROGRAM



Mon, 6 Nov

| | |
|---|---|
| 08:30-09:00 | Registration |
| 09:00-09:15 | <i>Opening Ceremony – João F. Mano & João Borges (University of Aveiro, Portugal), Insung Choi (KAIST, Korea), Ricardo Pires & Rui L. Reis (University of Minho, Portugal)</i> |
| 2nd CHEM2NATURE's workshop | |
|  | |
| Session I | |
| <u>Chairs:</u> Rui L. Reis & Ricardo Pires (<i>University of Minho, Portugal</i>) | |
| 09:15-10:15 | PL01. Virgil Percec (<i>University of Pennsylvania, USA</i>) – Programming biological membrane and protocell mimics with sequence-defined Janus glycodendrimers |
| 10:15-11:15 | PL02. Peter Williams (<i>Wrexham Glyndŵr University, Wales</i>) – Synthesis of hydrophobic inulin derivatives for the encapsulation and delivery of hydrophobic compounds |
| 11:15-11:45 | Coffee Break & Poster Session |
| 11:45-12:45 | PL03. Artur Silva (<i>University of Aveiro, Portugal</i>) – A flavor of synthetic organic chemistry towards biologically active compounds |
| Flash Talks 12:45-13:00 | FT01. Patrícia V. Mendonça (<i>University of Coimbra, Portugal</i>) – Synthesis of well-defined biorelevant cationic polymers by atom transfer radical polymerization (ATRP) techniques in aqueous media |
| | FT02. Priyanka Sahariah (<i>University of Iceland, Iceland</i>) – Synthetically modified chitosan with enhanced antimicrobial properties |
| | FT03. Victoria Leiro (<i>University of Porto, Portugal</i>) – Novel biodegradable PEG-dendrimers as vehicles of siRNA |
| | FT04. Miguel González-Pérez (<i>University of Valladolid, Spain</i>) – Self-organized elastin-like recombinamer membranes |
| 13:00-14:30 | Lunch |
| Session II | |
| <u>Chairs:</u> Virgil Percec (<i>University of Pennsylvania, USA</i>) & Artur Silva (<i>University of Aveiro, Portugal</i>) | |
| 14:30-15:30 | PL04. Kristi L. Kiick (<i>University of Delaware, USA</i>) – Biopolymer conjugates for the production of responsive biomaterials |
| 15:30-16:30 | PL05. Andrew Dove (<i>University of Warwick, UK</i>) – Tough materials through a click chemistry approach |
| 16:30-17:00 | Coffee Break & Poster Session |
| 17:00-18:00 | PL06. Harm-Anton Klok (<i>EPFL, Switzerland</i>) – Polymers at synthetic and biological surfaces |
| Flash Talks 18:00-18:15 | FT05. Maria M. Pérez-Madrugal (<i>University of Warwick, UK</i>) – Nonswelling thiol-yne hydrogel materials as cytocompatible soft tissue scaffolds |
| | FT06. Luis García-Fernández (<i>ICTP-CSIC, Spain</i>) – Bio-based three-dimensional hydrogels for cartilage regeneration |
| | FT07. Ana Margarida Pereira (<i>University of Minho, Portugal</i>) – Fabrication of polymeric protein-based materials with antimicrobial properties for biomedical applications |

PROGRAM

| | |
|--|---|
| | FT08. Patrícia C. Henriques (<i>University of Porto, Portugal</i>) – Graphene/Polyurethane coatings for antimicrobial surfaces: exploring different coating strategies |
| 19:00-21:00 | Welcome Reception |
| Tue, 7 Nov | |
| Session III | |
| Chairs: Peter Williams (<i>Wrexham Glyndŵr University, Wales</i>) & Insung Choi (<i>KAIST, Korea</i>) | |
| 09:00-10:00 | PL07. Phillip Messersmith (<i>University of California, USA</i>) – Polyphenolic materials inspired by mussels, tea, wine, and chocolate: From biomolecular phenomena to applications |
| 10:00-11:00 | PL08. Carsten Werner (<i>Leibniz Institute of Polymer Research Dresden, Germany</i>) – Dissectively cell-instructive matrices based on glycosaminoglycan-containing hydrogels |
| 11:00-11:30 | Coffee Break & Poster Session |
| 11:30-12:30 | PL09. Catherine Picart (<i>Grenoble Institute of Technology, France</i>) – Delivering growth factors to cells via biomaterials reveals so far hidden phenomena |
| Flash Talks | FT09. Alexandra Brito (<i>University of Minho, Portugal</i>) – Sugar coated supramolecular nanofibers as minimalistic proteoglycan mimics |
| | FT10. Daniela F. S. Fonseca (<i>University of Aveiro, Portugal</i>) – Bacterial cellulose based functional nanomaterials for dermal drug delivery and skin treatment |
| | FT11. Sara Amorim (<i>University of Minho, Portugal</i>) – Model surfaces to study Hyaluronan-CD44 interactions in gastric cancers |
| | FT12. Hanna Tiainen (<i>University of Oslo, Norway</i>) – Multifunctional polyphenolic nanocoatings for titanium implants |
| 12:45-14:30 | Lunch |
| Session IV | |
| Chairs: Kristi L. Kick (<i>University of Delaware, USA</i>) & Catherine Picart (<i>Grenoble Institute of Technology, France</i>) | |
| 14:30-15:30 | PL10. Sébastien Lecommandoux (<i>University of Bordeaux, France</i>) – Biomimetic polymer vesicles: Virus and cell mimics towards innovative biomaterials |
| 15:30-16:30 | PL11. José Carlos Rodríguez-Cabello (<i>University of Valladolid, Spain</i>) – Elastin-like recombinamers as advanced biomaterials |
| 16:30-17:00 | Coffee Break & Poster Session |
| 17:00-18:00 | PL12. Insung Choi (<i>KAIST, Korea</i>) – Cell-material interfaces: Artificial spores and neurons on nanotopographies |
| Flash Talks | FT13. Filippo Cipriani (<i>University of Valladolid, Spain</i>) – “Dual” SMART Elastin-Like recombinamer |
| | FT14. Diana D. Lopes (<i>University of Aveiro, Portugal</i>) – Design of a perfusion bioreactor for the high-throughput analysis of combinations of ECM proteins on human mesenchymal stem cells behavior in dynamic 3D conditions |
| | FT15. Márcia Tavares (<i>University of Lisbon & University of Aveiro, Portugal</i>) – Calcium and phosphorous incorporation in silica nanoparticles for stem cell differentiation in bone regeneration |
| | FT16. José L. Gómez Ribelles (<i>Polytechnic University of Valencia, Spain</i>) – Biomimetic microspheres for 3D mesenchymal stem cells culture and characterization |

PROGRAM

| | |
|---|--|
| 19:30-... | Dinner |
| Wed, 8 Nov | |
| Session V: Training session (TS) on <i>Scientific Management and Translational Research</i> | |
| <u>Chair:</u> Håvard Haugen (<i>University of Oslo, Norway</i>) | |
| 09:00-09:45 | TS01. Susana Armário (<i>INPI, Portugal</i>) – Managing intellectual property rights and innovation |
| 09:45-10:30 | TS02. Christopher Mann (<i>Asphalion, Spain</i>) – Regulatory issues in translational research |
| 10:30-11:00 | Coffee Break & Poster Session |
| 11:00-11:45 | TS03. Rafael Antunes (<i>Hovione, Portugal</i>) – R&D within Hovione: Key strategies for better academic-industry partnerships |
| 11:45-12:30 | TS04. Hélène Liette Lauzon (<i>PRIMEX EHF, Iceland</i>) – From the lab to the market: The successful case of Primex EHF |
| 12:30-14:00 | Lunch |
| Session VI: Marine Biotechnology (MB) | |
| <u>Chair:</u> Ricardo Calado (<i>University of Aveiro, Portugal</i>) | |
|   | |
| 14:00-14:30 | MB01. Tiago Silva (<i>University of Minho, Portugal</i>) – Marine biomaterials and biomimetics on the development of biomedical applications and advanced therapies |
| 14:30-15:00 | MB02. Már Másson (<i>University of Iceland, Iceland</i>) – Chitosan derivatives and conjugates for antimicrobial action and drug delivery applications. |
| 15:00-15:30 | MB03. Håvard Haugen (<i>University of Oslo, Norway</i>) – Debridement of infected dental implants- could chitosan brushes be useful tool? |
| 15:30-16:00 | Coffee Break & Poster Session |
| 16:00-16:30 | MB04. Janne Reseland (<i>University of Oslo, Norway</i>) – Why do biomaterials fail, and can failure be minimized? |
| 16:30-17:00 | MB05. Henrik Birkedal (<i>Aarhus University, Denmark</i>) – Self-healing mussel-inspired hydrogels |
| 17:00-17:15 | <i>Closing Remarks & Best Poster Award</i> – João F. Mano & João Borges (<i>University of Aveiro, Portugal</i>) |