

# BIOREMIA Winter School & Mid-Term Check

## Biomaterials and Antibacterial Technologies

9 – 12 February 2021 (online)

### Program

---

#### LOCATION

Online event  
- via ZOOM -

#### ORGANISERS

BIOREMIA ETN project  
<https://www.bioremia.eu/>  
Event organised by: Prof. Serena Best, Prof. Ruth Cameron,  
Prof. Lindsay Greer  
University of Cambridge, UK

#### FUNDING

This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska - Curie grant agreement No. 861046.



## 9 February

Tuesday

18:00 – 21:00 Welcome party (optional)	Miguel Brito Costa and Tim Kreuz (UCAM, UK)
--	---

## 10 February

Wednesday

08:30 Opening the virtual room & technical check	
09:15 Introduction to the Workshop & Briefing on the BIOREMIA training program	Serena Best (Winter School organizer) Mariana Calin (BIOREMIA Coordinator)
<b>Biomaterials and Bone Regeneration</b>	
Moderator: Serena Best (UCAM, UK)	
<i>Invited Talks</i>	<i>Invited speakers*</i>
09:30 Tissue Engineering	Daniel Bax (UCAM, UK)
10:15 Macromolecular Biomaterials	Ruth Cameron (UCAM, UK)
11:00 Coffee break	
Moderator: Ruth Cameron (UCAM, UK)	
11:15 Bioceramics	Serena Best (UCAM, UK)
12:00 Nature's Selection of Materials in Living Systems	Lindsay Greer (UCAM, UK)
12:45 Lunch break	
Moderator: Annett Gebert (IFW, D)	
13:45 Metallic Biomaterials	Damien Fabrègue (MATEIS-INSA Lyon, F)
14:30 Scientific Network Discussion and Round-up (briefing of ESRs projects progress)	(5 min/ESR) 15 ESRs
16:00 Tea break	
Moderators: Miguel Brito Costa and Tim Kreuz (UCAM, UK)	
16.15 ESR Intercultural Dissemination Session	15 ESRs
17.30 End of Day 1	

# 11 February

Thursday

08:45 Opening the virtual room & technical check	
<b>Transferable Skills</b>	
Moderator: Robin Büscher (Stryker, D)	
<i>Invited Talks</i>	<i>Invited speakers*</i>
<b>09:30 Commercialisation and Regulatory Pathways</b>	Udo Greiser (Ashland, IE )
<b>10:00 Basics of IPR</b>	Tim Barga (Stryker, D)
<b>10:30 Q&amp;A</b>	
10:45 Coffee break	
Moderator: Lindsay Greer (UCAM, UK)	
<b>11:00 IMPULSE - a programme for Tech Innovators: from researcher to entrepreneur!</b>	Yupar Myint (Maxwell Centre, UCAM, UK)
<b>11:45 Electronics on the Brain</b>	George Malliaras (Engineering Department, UCAM, UK)
12:30 Lunch break	
<b>Surface Modification</b>	
Moderator: Andreas Blatter (PXS, CH)	
<b>13:30 Corrosion and Tribocorrosion</b>	Benoît Ter-Ovanesian (MATEIS-INSa Lyon, F)
<b>14:15 Anodization Treatments of Ti and its Alloys for Biomedical Use</b>	Annett Gebert (IFW, D)
<b>15:00 Creating Surface Patterns on Metals: Nanomolding Very Close to and Very Far from Equilibrium</b>	Jan Schroers (Mechanical Eng. & Materials Science Department, Yale University, USA)
15:45 Coffee break	
<b>16:00 Info &amp; Preparation of MTC (for ESRs +PIs)</b>	Mariana Calin (IFW, D)
<b>16:15 Network Management session (2 virtual rooms: a-for PIs, b-for ESRs)</b> a) Consortium Management Meeting / b) Fellows' Networking Event	a) Anne Hönemann (IFW, D) b) Ludovico Alberta (IFW, D)
16:45 End of Day 1	

# Mid-Term Check

12 February

Friday

08:30	Opening the virtual room & technical check	
09:30 - 09:35	<b>Introduction:</b> Short introduction by the REA Project Officer and the Project Coordinator on the purpose of the meeting	
09:35 - 10:30	<b>Tour de table:</b> All scientists-in-charge should briefly present their research team and describe their role within the network. Introduction of the Participating Organisations (~ 3 min / participating institution)	
	<b>Beneficiaries:</b> <ol style="list-style-type: none"> <li>1. IFW Dresden (IFW, Germany) -&gt; A. Gebert</li> <li>2. Montanuniversität Leoben (MUL, Austria) -&gt; J. Eckert/F. Spiekermann</li> <li>3. University of Ioannina (UOI, Greece) -&gt; Ch. Lekka</li> <li>4. Goeteborgs Universitet (UGOT, Sweden) -&gt; A. Palmquist /M. Trobos</li> <li>5. University of Cambridge (UCAM, UK) -&gt; S. Best/R. Cameron/A.L. Greer</li> <li>6. Universitat Autònoma de Barcelona (UAB, Spain) -&gt; J. Sort</li> <li>7. Università degli Studi di Torino (UNITO, Italy) -&gt; P. Rizzi</li> <li>8. PX Services SA (PXS, Switzerland) -&gt; A. Blatter</li> <li>9. Ashland Specialties Ireland Ltd (Ireland) -&gt; U. Greiser</li> <li>10. Anthogyr SAS (France) -&gt; N. Courtois</li> <li>11. Stryker Trauma GmbH (Germany) -&gt; R. Büscher</li> </ol>	<b>Partner Institutions:</b> <ol style="list-style-type: none"> <li>12. University College Dublin (Ireland) -&gt; Tadhg Ó'Cróinín</li> <li>13. INSA Lyon (France) -&gt; D. Fabrègue/J. Chevalier</li> <li>14. Universitätsklinikum Gießen &amp; Marburg (Germany) -&gt; Ch. Heiß</li> <li>15. Yellow Research BV (The Netherlands) -&gt; L. Jaspers</li> <li>16. TU Dresden (Germany) -&gt; K. Nielsch</li> <li>17. Yale University (US) -&gt; U. Schwarz/J. Schroers</li> </ol>
10:30 - 10:50	<b>REA Project Officer presentation:</b> presentation on the monitoring of project implementation, reporting and purpose of the mid-term check	
10:50 – 11:50	<b>Coordinator's report:</b> Presentation of the Network and the progress	
	Lunch break	

13:00 - 14:45	<b>Fellows' individual presentation:</b> Every fellow funded by the project will present herself/himself, his background and present his/her individual research project (foreseen research, training, secondments, etc.). Scientific results are not expected in the presentations ( <i>5-7 minutes/fellow</i> )	
	<b>ESR 1</b> - Yannick Fortouna (UOI, Greece) <b>ESR 2</b> - Ludovico Alberta (IFW, Germany) <b>ESR 3</b> – Aleksandra Bartkowska (UAB, Spain) <b>ESR 4</b> – Fei-Fan Cai (MUL, Austria) <b>ESR 5</b> – Miguel Brito Costa (UCAM, UK) <b>ESR 6</b> – Tim Kreuz (UCAM, UK) <b>ESR 7</b> – Kirti Tiwari (UNITO, Italy) <b>ESR 8</b> – Michael Escobar Hernandez (UAB, Spain)	<b>ESR 9</b> – Marina Roshchina (IFW, Germany) <b>ESR 10</b> – David Zermeno (Ashland, Ireland) <b>ESR 11</b> – Adam Turner (UGOT, Sweden) <b>ESR 12</b> – Paula Milena Giraldo (UGOT, Sweden) <b>ESR 13</b> – Juan José Londoño Rueda (PXS, Switzerland) <b>ESR 14</b> – Yohan Douest (Anthogyr, France) <b>ESR 15</b> – Sebastião Barros (Stryker, Germany)
14:45 – 16:15	<b>Restricted session with the fellows</b>	
16:15 – 16:30	<b>Restricted session:</b> Meeting between coordinator and Project Officer to discuss any issue	
16:30 – 17:00	<b>Feedback and open discussion:</b> Feedback from the REA Project Officer on the output of the network so far, on possible training areas for future exploitation or the impact on fellows' future careers development	
17:00 – 17:15	<b>Concluding remarks and end of Mid-Term Check</b>	

<b>*Further Information</b>	
Professor Serena Best	Director of the Cambridge Centre for Medical Materials (joint) and Professor of Materials Science, Department of Materials Science & Metallurgy, University of Cambridge, UK
Professor Ruth Cameron	Head of Department (joint), Director of the Cambridge Centre for Medical Materials (joint) and Professor of Materials Science, Department of Materials Science & Metallurgy, University of Cambridge, UK
Professor A Lindsay Greer	Professor of Materials Science, Department of Materials Science & Metallurgy, formerly Head of School of the Physical Sciences, University of Cambridge, UK
Dr Daniel Bax	Post-Doctoral Research Associate, Cambridge Centre for Medical Materials, Department of Materials Science & Metallurgy, University of Cambridge, UK
Professor Damien Fabrége	Professor at Materials Engineering and Science (MATEIS) Laboratory, METals and Alloys (METAL) group, National Institute of Applied Science (INSA) Lyon, France
Dr Udo Greiser	Managing Director, Ashland Specialties Ireland Ltd., Dublin, Ireland
Tim Barga	Senior Manager Intellectual Property Rights, Stryker Trauma GmbH, Germany
Yupar Myint	Head of Entrepreneurship Programme, Impulse - for tech innovators, Maxwell Centre, formerly Director of International Business Development at Cambridge's Centre for Entrepreneurial Learning, University of Cambridge, UK
Professor George Malliaras	Bioelectronics Laboratory team leader and Prince Philip Professor of Technology at the Department of Engineering, University of Cambridge, UK
Assoc. Professor Benoît Ter-Ovanesian	Associate Professor at Materials Engineering and Science (MATEIS) Laboratory, Corrosion and Surface Engineering (CORRIS) group, National Institute of Applied Science (INSA) Lyon, France
Dr Annett Gebert	Head of Dept. 'Chemistry of Functional Materials', Institute for Complex Materials, Leibniz-Institute for Solid State and Materials Research Dresden (IFW Dresden), Germany
Professor Jan Schroers	Professor of Mechanical Engineering & Materials Science, Department of Mechanical Engineering and Materials Science, School of Engineering & Applied Science, Yale University, USA