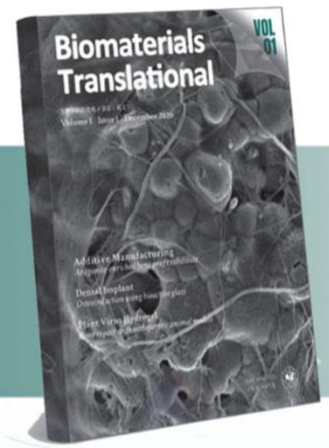


Biomaterials Translational Forum

2023-01



Advanced technology for biomaterial research

19 March 2023, Sunday

13:30-15:00 (London); 8:30-10:00 (New York); 21:30-23:00 (Beijing)

Host/Introduction: (5 min)

Dr. Zhidao Xia

Swansea University Medical School, UK

Zooming info:

<https://swanseauniversity.zoom.us/j/8266570519?pwd=aXdrN1pOUFhqSFISYlFkOjVvNDRHQT09>

Lecture 1 (20 min)

Neovasculature in Axially Vascularized Calcium Phosphate Cement Scaffolds

Professor Jake Barralet

Faculty of Dental Medicine and Oral Health Sciences, McGill University, Canada. jake.barralet@mcgill.ca



Lecture 2 (20 min)

Lasermicrotomy: Image guided preparation of hard tissue for advanced histology

Dr. Heiko Richter

Product Manager bei LLS ROWIAK LaserLabSolutions GmbH, Hannover, Germany h.richter@lls-rowiak.de



Lecture 3 (20 min)

DNA nuclear medicine

Professor Dawei Jiang

Department of Nuclear Medicine, Union Hospital, Tongji Medical College, Huazhong University of Science and Technology, China daweijiang@hust.edu.cn



Panel discussion and wrap up (25 min)



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Organizing Committee (Alphabetically):

Prof. Xu Cao

Department of Orthopaedics, Johns Hopkins University, USA

Prof. Xiaodong Guo

Department of Orthopaedics, Wuhan Union Hospital, China

Prof. Bin Li

Institute of Orthopaedics, Soochow University, China

Prof. Zengwu Shao

Department of Orthopaedics, Wuhan Union Hospital, China

Prof. Qian Wang

University of South Carolina, USA

Dr. Zhidao Xia

Swansea University Medical School, Swansea, UK

Prof. Weihua Xu

Department of Orthopaedics, Wuhan Union Hospital, China

Biography

Prof. Barralet is a Materials Science At the Faculty of Dental Medicine and Oral Health Sciences, McGill University. He was specialised in Biomaterials during his PhD at the Interdisciplinary Research Centre in Biomedical Materials, QMW, University of London. His research interests are Bioceramics in particular low temperature syntheses of nanocrystalline and amorphous inorganics, cold setting materials (cements) and precipitation to create new or improved materials or devices for tissue repair or delivery. Work on tissue engineering has focussed on new ways to build 3D structures using microscaffolds as building blocks for macroscale constructs. In addition calcium cross linked alginate has been evaluated as a tissue engineering scaffold. He has been awarded a Canada Research Chair in Osteoinductive Biomaterials and will work on this topic as well as extending prior work to include biomineralisation.

Dr. Heiko Richter is a Product Manager specialised in Laser microtomes and related technology at bei LLS ROWIAK LaserLabSolutions GmbH, Germany. He graduated from University of Münster and obtained a PhD from University of Hildesheim. He has extensive experience on animal tissue preparation for histology and the laser microtome system for hard tissue and biomaterial research.

Dawei Jiang, received his Ph.D. in Inorganic Chemistry from Shanghai Institute of Applied Physics, Chinese Academy of Sciences in 2015. After 5 years of postdoctoral training in Prof. Weibo Cai's lab at the University of Wisconsin - Madison, he joined Wuhan Union Hospital as a full professor in 2020. His research interests include the design and development of DNA-based nanoprobe for biomedical imaging and disease treatment. He has published more than 100 academic papers and was awarded "2019 Ones to Watch" and "Michael J. Welch Postdoctoral Award" from the Society of Nuclear Medicine and Molecular Imaging. He is currently the Editor-in-Chief of Am. J. Nucl. Med. Mol. Imaging and serves in editorial boards of Molecular Pharmaceutics and Journal of Nanobiotechnology.



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