

# Symposium on Biomaterials

## ~for Biomedical and Ecological Applications~

**DATE:** 22<sup>nd</sup> and 23<sup>rd</sup> May 2024

**PLACE:** 1F, Buid. 4, Nagoya Institute of Technology, Gokiso-cho, Showa-ku, Nagoya, 466-8555 Japan

### PROGRAM

----- 22<sup>nd</sup> May -----

**12:25 Opening**

**12:30**

“Tonic therapy for bone regeneration in health and disease”

Gavin Jell

Faculty of Medical Science, University College London

**13:30 Coffee Break**

**13:40**

“Sol-gel systems of concentrated colloidal nanocrystals for biomedical applications”

Yasuaki Tokudome

Osaka Metropolitan University

**14:20**

“Structure of calcium phosphate invert glasses for biomedical applications”

Sungho Lee

National Institute of Advanced Industrial Science and Technology (AIST)

**15:00 Coffee Break**

**15:15**

“Printed pathways: Navigating microfluidic frontiers with 3D printing”

Amirpasha Moetazedian, Nazia Zeb, Siyun Liu, Liam Cox, Liam Grover and Gowsihan Poologasundarampillai

School of Engineering, University of Hull, School of Dentistry, University of Birmingham

**15:55**

“First-principles study of local structures in amorphous materials”

Tomoyuki Tamura

Division of Applied Physics, Nagoya Institute of Technology

**16:35 – 17:35**

**Student Poster Presentation (with snacks and drinks)**

----- 23<sup>rd</sup> May -----

**13:00**

“Coacervate as a versatile growth factor delivery system for tissue engineering & therapeutic applications”

Justin J. Chung <sup>1,2</sup>

<sup>1</sup> Department of Transdisciplinary Medicine, Seoul National University Hospital, Republic of Korea

<sup>2</sup> Department of Medicine, Seoul National University College of Medicine, Republic of Korea

**14:00 Coffee Break**

**14:10**

“Biopolymer-silica hybrid hydrogels”

Francesca Lewns, Siyun Liu, Xinyi Zhu, Amirpasha Moetazedian, Liam Cox and Gowsihan Poologasundarampillai

School of Dentistry, University of Birmingham

**14:50**

“Design of ion-release organic-inorganic hybrid materials for periodontal tissue regeneration”

Jin Nakamura

Kyushu Institute of Technology

**15:30 Coffee Break**

**15:45**

“Hydrothermal conversion of agricultural wastes to environmental materials”

Hiroataka Maeda

Nagoya Institute of Technology

**16:25**

“Models to study management and prevention of (oral) biofilms”

Sarah Kuehne

School of Science and Technology, Nottingham Trent University

**17:05 Closing**

-----  
**Organizer**

Sarah Kuehne, Gowsihan Poologasundarampillai, Amirpasha Moetazedian, Akiko Obata  
*JSPS Bilateral Program (JPJSBP120235703)*

**Co-Organizer**

Yasuaki Tokudome, Akiko Obata  
*JSPS KAKENHI (JP24K01165)*

**Contact**

Akiko Obata, 052-735-5400, obata.akiko@nitech.ac.jp