

## Turku Biomaterials Days 2024

### Nanomaterials for Biomedical Applications

*The topic for this year will provide useful information on the latest developments and applications of nanomaterials a cross healthcare industry and science*

24<sup>th</sup>- 25<sup>th</sup> of October 2024 (Mauno Koivisto centre in BioCity/ Presidentti auditorium)



#### Thursday October 24<sup>th</sup>

11.45 – 12.00

#### Registration

12.00 – 12.10

#### Opening remarks

Prof. Pekka Vallittu

12.10 – 12.50

Dr. Erkkä Frankberg (Tampere University, Finland)

Ductile glass at room temperature and high strain rates

12.50 – 13.30

Prof. Xu Zhang (Jiangsu University, China)

Exosomes in cancer diagnosis and therapy

13.30 – 14.00

Dr. Arto Hiltunen (University of Turku, Finland)

Nanoplastic pollution in the environment

14.00-14.30

#### Coffee Break and Networking

14.30-15.10

Prof. Min Zhou (Zhejiang University, China)

Microalgae-Based Drug Delivery System

15.10-15.40

Dr. Shiqi Wang (University of Helsinki, Finland)

Polysaccharide-conjugated amphiphilic polymers for intracellular drug delivery

15.40 – 16.10

Dr. Vimalkumar Balasubramanian/ Bayer Oy

Nanoparticles in medicine: Evolution or revolution?

16.10-16.15

#### Closing remarks

16.15-17:00

Poster mingling with cocktail bites (Biocity aula & Manu)

17:00 Gala dinner with live music (Joki Cave)

## Friday October 25<sup>th</sup>

9.00 – 9.40

**Dr. Cindy Elschner (Institute Polymer Materials, Germany)**

Sustainable composites based on hydrolytically active glass fibres and bio-based coatings for medical and technical applications

9.40 – 10.20

**Prof. Gianluca Turco (University of Trieste, Italy)**

Nanostructured biomaterials: the role of roughness in promoting osteointegration

10.20 – 10.50

**Coffee Break and Networking**

10.50 – 11.30

**Prof. Gilles Subra (University of Montpellier, France)**

Marrying sol-gel and peptide chemistry to design bioactive materials

11.30 – 12.00

**Dr. Sybil Obuobi (The Arctic University of Tromsø, Norway)**

Tailoring drug delivery and antimicrobial properties: The role of nucleic acid nanostructure design

12.00

**Closing remarks**

**Registration at:**

<https://konsta.utu.fi/Default.aspx?tabid=88&tap=19877>

**Abstract submission:** Please send your abstracts to [mastal@utu.fi](mailto:mastal@utu.fi)

**Welcome!**