

## Turku Biomaterials Days 2023

### Emerging technologies for biomedical applications: additive manufacturing, biosensors and bioelectronics

*As 2023 the topic for this year will provide useful information on the latest developments and applications of additive manufacturing, biosensors and bioelectronics a cross healthcare industry and science*

26<sup>th</sup>- 27<sup>th</sup> of October 2023 (12-12 Arje Scheinin hall, Dentalia 2<sup>nd</sup> floor, Lemminkäisenkatu 2

**BIOCITY TURKU**  
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Turun yliopisto  
University of Turku



#### Thursday October 26<sup>th</sup>

11.45 – 12.00

#### Registration

12.00 – 12.10

#### Opening remarks

Sufyan Garoushi (UTU) and Chunlin Xu (Åbo), Directors of Biomaterials and Medical Devices Research Program in Turku

12.10 – 13.10

#### The cutting edge of 3D printed dentures

Prof. Manabu Kanazawa, Tokyo Medical and Dental University, Japan

13.10 – 14.00

#### The best of both worlds? Combining synthetic and biobased hydrogels for improved bioink printability.

Prof. Robert Luxenhofer, University of Helsinki, Finland

14.00 – 14.30

#### Poster Session and Coffee Break

14.30-15.30

#### Synthetic peptide antibodies - Principle and application of molecularly imprinted polymer nanogels.

Prof. Karsten Haupt, University of Technology of Compiègne, France

15.30-16.00

#### Additive Manufacturing from Prototype to Clinical Practice and Beyond

Assoc. Prof. Niko Moritz, University of Turku, Finland

16.00-16.30

#### Engineering Functional Bioinks with Photo-curable Woody Biopolymers and Nanomaterials

Dr. Xiaoju Wang, Åbo Akademi, Finland

16.30-16.40

#### Discussion & Closing remarks

16.40

#### Poster Session and Get-together Reception

Organizers:

BioCity Turku Biomaterials and Medical Device Research Program and Turku Science Park Ltd

## Friday October 27<sup>th</sup>

**9.00 – 9.30**

### **Biomaterials in future diagnostics**

Assoc. Prof. Emilia Peltola, University of Turku, Finland

**9.30 – 10.30**

### **Electrochemical aptamer assays for clinical diagnostics: e-ELASA versus ELISA**

Assoc. Prof. Elena Ferapontova, Aarhus University, Denmark

**10.30 – 11.00**

### **Bioinspired Architectures and Materials for Flexible Health Technology Devices**

Ass. Prof. Vipul Sharma, University of Turku, Finland

**11.00 – 11.30**

### **Poster Session and Coffee Break**

**11.30 – 12.30**

### **PhD candidate and Postdoc presentations**

6 presenters 10 min each

**12.30**

### **Closing remarks**

### **Registration at:**

<https://konsta.utu.fi/Default.aspx?tabid=88&tap=16155>

### **Abstract submission call is open at:**

<https://link.webropolsurveys.com/Participation/Public/42963cf4-dd5b-4539-9aa1-4e2a67957793?displayId=Fin2832163>

Best Poster and Oral Presentation will be chosen and awarded

## Welcome!