



# **PROGRAMME CONTAINS**



### **KEYNOTE SPEAKERS**

Jeffrey Anker, Toni Seppälä, and Yannis Missirlis



### **PRESENTATIONS**

Selected set of MET research presentations



### PITCHING & POSTERS

topical highlights chosen from the abstracts



### **EXHIBITION**

Commercial exhibition in the Yellow Hall



# **PROGRAMME**

Parallel to the program of presentations we have two exhibitions that are open for all. Poster exhibition is open on both days and Commercial exhibition is open on Friday. No registration required.

EVENT	PLACE	OPEN (FOR ALL)
Poster exhibition	Arvo main lobby and the cafeteria area next to Visakorpi auditorium	from Thu 24th Nov 8:30 to Fri 25th Nov 16:00
Commercial exhibition	Arvo Yellow Hall	Fri 25th Nov 9:00-15:00

# Thursday 24 Nov 2022 (Jarmo Visakorpi auditorium)

08:30 Opening words:

Vice President for research Tapio Visakorpi & Dean Seppo Parkkila

Chair: Professor Pasi Kallio

08:45 SESSION 1

08:45 Keynote: Professor Jeffrey Anker, Clemson University

"The curious case of the flashing magnetic microsphere and other stories: Developing novel sensors for biomedical applications"

Chair: Professor Jari Hyttinen

09:30 MET research presentations (à 10 min)

Chair: Associate Professor Oommen P. Oommen

- 1. Satu Jäntti: Modular platform for epilepsy modelling
- 2. Ella Lampela: A novel, animal-free culturing setup for introducing vasculature into an engineered muscle bundle
- 3. Henna Lappi: The 3D bioprinted cardiac model: human induced pluripotent stem cell-derived in vitro model for cardiac disease modelling and drug screening
- 4. Annika Länsivaara: Wastewater-based surveillance as a pandemic preparedness tool A WastPan consortium research (TAU, THL and UH)
- 5. Paula Puistola: Multi-material 3D bioprinting of human stem cell -based corneal stroma
- 6. Anne Skogberg: SEM characterization of cell morphology on non-transparent porous materials

10:30 Posters and coffee



- 5. Reetta Nätkin: Adaptive and non-adaptive gene expression responses in prostate cancer during androgen deprivation
- 6. Iisa Tujula: Glial co-culture on a chip for modelling MS disease-related neuroinflammation in vitro
- 10:30 Industrial exhibition and coffee

#### 11:00 SESSION 2

11:00 **Keynote: Professor Yannis Missirlis, University of Patras** "Controversies and key nano insights in long standing physiological and biological dogmas"

Chair: Professor Minna Kellomäki

#### 11:45 MET research presentations (à 10 min)

Chair: Associate Professor Karolina Louvanto

- 1. Arttu Autio-Kimura: The role of human endogenous retroviruses in immune and inflammatory conditions
- 2. Yuliya Basikhina: Mitochondrial dysfunction in immune cells leads to distinct transcriptomic changes and improved immune competence in Drosophila
- 3. Barbara Genocchi: Astrocytes drive structural network formation in neuron-astrocytes cocultures
- 4. Antti Laurikka: Inflammatory glycoprotein YKL-40 is elevated after coronary artery bypass surgery and correlates with leukocyte chemotaxis and myocardial injury, a pilot study
- 5. Mikael Marttinen: Determining the molecular consequences of Alzheimer's disease non-coding risk loci in human microglia
- 6. Veronika Zapilko: Building zebrafish models of ETV6::RUNX1 B-cell leukemias for large-scale drug screens
- 12:45 Industrial exhibition, posters and lunch

#### 13:30 **SESSION 3**

#### Poster pitching session 2 (á 3 min) 13:30

Chair: Dr. Aleksi Reito

Best PhD thesis awards 2022, best publication award 2022 14:15

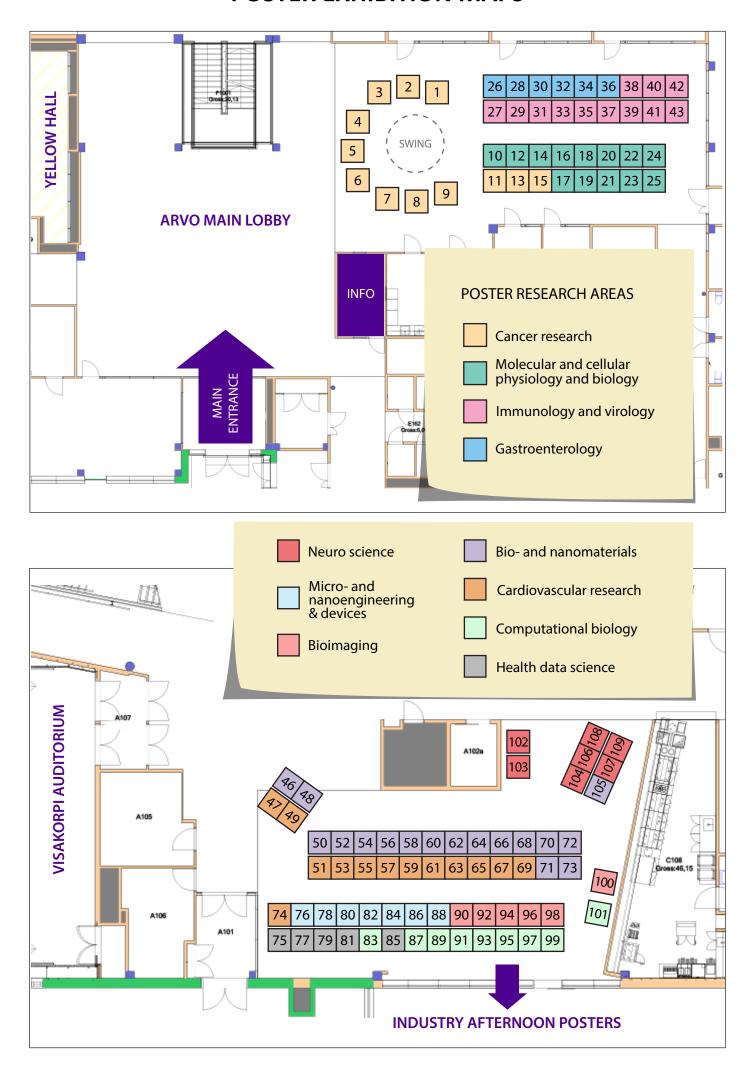
and education achievement award 2022

Chair: Dean Seppo Parkkila

14:30 Poster session 2 at the poster exhibition (90 min)



# **POSTER EXHIBITION MAPS**



## MET RESEARCH DAY COLLABORATORS









































































