



MET Research Day
30 Nov – 01 Dec 2023
Final Programme

PROGRAMME CONTAINS



KEYNOTE SPEAKERS

Teresa Coque, Pavel Tomancak,
and Kati Kristiansson



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	Close to the Visakorpi auditorium	from Thu 30th Nov 8:30 to Fri 1st Dec 16:00
Commercial exhibition	Arvo Yellow Hall	Fri 1st Dec at 10-15

Thursday 30 Nov 2023 (Jarmo Visakorpi auditorium)

08:30 Opening words:
Dean Seppo Parkkila, the Vice President for Research Tapio Visakorpi, and the Vice President for Stakeholder Relations and Partnerships Jarmo Takala
Chair: Professor Andre Ribeiro

08:45 SESSION 1

08:45 **Keynote: Teresa Coque, Ramón y Cajal Institute for Health Research: Antimicrobial Resistance in the Global Health Network: “Known Unknowns” and Challenges for Efficient Responses in the 21st Century**

Chair: Professor Andre Ribeiro

09:30 Poster pitching 1 (à 3 min)

Chair: Professor Andre Ribeiro

10:00 Poster session 1 with coffee and savory pastries

11:00 SESSION 2

11:00 Research presentations 1 (à 8+2 min)

Chair: Associate Professor Oommen Oommen

- Laura Martin-Diaz: Unveiling the role of a novel actin filament remodelling protein expressed in pancreatic insulin-producing cells
- Emre Kapucu: Human tripartite cortical network model for temporal assessment of alpha-synuclein aggregation and propagation in Parkinson’s Disease
- Reetta Nätkin: Transcriptomic and phenotypic characterization of different treatment resistances in castration resistant prostate cancer cells



11:30 Research highlights from MET (à 13+2 min)

Chair: Associate Professor Oommen Oommen

- Assistant Professor (tenure track) Xin Lai:
Cooperative MicroRNA Therapeutics in Cancer
- Senior Research Fellow Alfonso Urbanucci:
Understanding the metastatic potential of single prostate cancer cells

12:00 Lunch

13:00 SESSION 3

13:00 Poster pitching 2 (à 3 min)

Chair: Associate Professor Oommen Oommen

13:30 PARALLEL SESSIONS:

- A) Clinical Session in Jarmo Visakorpi auditorium, OR
- B) Industry Afternoon in the Yellow Hall

Detailed schedules of the parallel sessions are shown below and on the next page.

CLINICAL SESSION IN JARMO VISAKORPI AUDITORIUM:

13:30 Opening words: MET RD Scientific Committee Members Associate Professor Karolina Louvanto and Associate Professor Alekski Reito

13:40 Keynote: Kati Kristiansson, Wellbeing Services County of Pirkanmaa: Collaborative Synergy: Tampere University Hospital and Tampere University Empowering Clinical Research

Chair: Associate Professor Karolina Louvanto

14:10 Research presentations (à 8+2 min)

Chair: Associate Professor Alekski Reito

- Antti Laurikka: Myocardial MCP-1, IL-6 and E-Selectin expression is markedly increased in patients undergoing coronary artery bypass grafting surgery. A GWEA based pilot study
- Linnea Aitokari: Alanine aminotransferase measurements in children increased 3.9-fold in 1992–2018, while proportion of abnormal results fluctuated without major change
- Argyro Bizaki-Vallaskangas: A novel association of annexin A13 to secretory otitis media along with studying of genetics of chronic non-suppurative otitis media
- Rasmus Liukkonen: Predicting failure after revision arthroplasty due to early postoperative prosthetic joint infection of the knee or hip: an external validation of the KLIC-score
- Aarno Leino: Possibilities of partial HPV genotyping in the Finnish national cervical cancer screening program

15:00 Poster pitching (à 3 min)

Chair: Associate Professor Alekski Reito

Pitching session is followed by a visit to the poster exhibition. The event has a common poster session with dedicated area for posters from this parallel session.



INDUSTRY AFTERNOON IN THE YELLOW HALL:

- 13:30 Opening: Professor Antti Vehkaoja
Greeting from Business Tampere, Aino Salmi
- 13:40 Modulight: Experiences on RDI collaboration
CEO, Founder Petteri Uusimaa
- 14:00 DSII - Doctoral School of Industrial Innovation
combining academy and industry in research,
Director, Research and Innovation Services Pauli Kuosmanen
- 14:20 eLive Ecosystem Oy: EU IHI Innovative Health Initiative
CEO Mikko Saajanlehto
- 14:40 Orion: Business Finland Veturi-ecosystem
Discovery Data Technology Lead Julius Sipilä
- 15:00 Examples of other opportunities for collaboration
between industry and academia

15:30 Poster session 2 with sparkling wine (90 min)

Friday 01 Dec 2023 (Jarmo Visakorpi auditorium)

09:00 Opening words:
Head of the MET RD Scientific Committee Andre Ribeiro
Chair: Dr. Jack Morikka

09:05 SESSION 1

09:05 **Keynote: Pavel Tomancak, Max Planck Institute of Molecular Cell Biology and Genetics: Evolution of Morphogenesis**

Chair: Dr. Jack Morikka

09:50 Research highlights from MET (à 13+2 min)

Chair: Dr. Jack Morikka

- Associate Professor (tenure track), Minni Änkö:
RNA – the Swizz knife of biomedicine
- Academy Research Fellow, Minna Hankaniemi:
An overview to vaccine development against pandemic viruses

10:20 Research presentations 2 (à 8+2 min)

Chair: Dr. Jack Morikka

- Yuliya Basikhina: Mitochondrial perturbation in immune cells enhances cell-mediated innate immunity in Drosophila
- Saana Soppela: Characterization of immune response towards modified Coxsackie B virus-like particle vaccine in a murine model
- Erdogan Pekcan Erkan: PANORG: a precision oncology approach for colorectal cancer treatment
- Hatai Jongprasitkul: Tailoring the injectability and printability of photocrosslinkable polypeptides and polysaccharides



11:00 Commercial exhibition and coffee

12:00 Lunch

13:00 SESSION 2

13:00 Research presentations 3 (á 8+2 min)

Chair: Associate Professor Minni Änkö

- Antonio Federico: Systems pharmacology for drug discovery in dermatological diseases
- Ismaïl Hermelo: Unsupervised clustering reveals non-canonical myeloid cell subsets in brain tumour microenvironment
- Austin Evans: Non-shrinking photo crosslinking collagen I-hyaluronic acid hydrogels support hiPSC derived cardiac tissue formation and function
- Annika Länsivaara: Wastewater surveillance of influenza A virus and respiratory syncytial virus epidemics at the national level in Finland
- Leena-Maija Vanha-aho: MMAR_3485 does not form functional amyloid but contributes to cording morphology in *Mycobacterium marinum*
- Hannu Välimäki: Cell-friendly 3D oxygen imaging for microphysiological systems
- Arjen Gebraad: Bone-on-chips for studying cancer metastasis

14:15 Break

14:40 SESSION 3

14:40 Research presentations 4 (á 8+2 min)

Chair: Associate Professor Minni Änkö

- Sanna Korpela: Hydrogel platform enabling traction force characterization of retinal pigment epithelium during phagocytosis
- Rolle Rahikainen: Optical control of covalent protein assembly reveals hierarchy of adhesion protein recruitment
- Nemanja Milićević: The circadian modulation of melanin biosynthesis by binding to the ROR regulatory motif in the retinal pigment epithelium

15:10 Career event for PhD students and Postdocs: Organization representatives introducing job opportunities in their organizations and their own career paths

Chair: HR Partner Emmi Mustaniemi

- ModuLight, Petteri Uusimaa
- Fimea, Hanna Kankkonen
- Novartis, Elina Wiik
- European Commission, DG GROW, Kirsti Ala-Mutka

16:30 Awards: PhD thesis, publication and education achievement

Chair: Professor Pasi Kallio

16:40 Closing of the event (5 min): Vice Dean for Research Pasi Kallio

POSTER EXHIBITION MAP

POSTER RESEARCH AREAS

- Bioimaging
- Biomaterials
- Cancer
- Cardiovascular diseases
- Cell and tissue engineering
- Clinical
- Computational biology
- Gastroenterology
- Health data science
- Immunology and virology
- Mitochondrial research
- Molecular and cellular physiology and biology
- Neurology and neuroscience
- Other fields of medicine
- Sensing and actuation devices, micro- and nanoengineering

Jarmo Visakorpi auditorium



A106

A105

A102a

D106

Diner

C111

C110

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MET RESEARCH DAY COLLABORATORS

