



**MET Research Day**  
**28-29 Nov 2024**  
**Final Programme**

## PROGRAMME CONTAINS



### KEYNOTE SPEAKERS

Jan Hasenauer, Belinda Nedjai,  
and Andrew Daly



### PRESENTATIONS

Selected set of MET  
research presentations



### PITCHING & POSTERS

Topical highlights chosen from  
the abstracts and R2B projects



### 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)
<b>Poster exhibition</b>	At the diner, close to the Visakorpi auditorium	from Thu 28 Nov 9:00 to Fri 29 Nov at 16:00
<b>Commercial Exhibition</b>	Arvo Yellow Hall	Fri 29 Nov at 10-15

### Thursday 28 Nov 2024 (Jarmo Visakorpi auditorium)

- 9:00      Opening words:  
Dean Seppo Parkkila
- 9:10      MET Awards:
- Best PhD thesis 2024
  - Best publication 2024
  - Education award 2024
- 9:25      Minna Kellomäki: About practicalities

9:30

#### SESSION 1

Chair Professor Minna Kellomäki, co-chair Dr. Janne Koivisto

9:30

#### **MET Research Highlights talk** (á 13+2 min)

The winner of the best publication award

9:45

#### Research presentations (á 8+2 min)

- Johanna Laakkonen: Towards BBB-on-chip to study vascular defects in multiple sclerosis
- Iida Ahonen: Comparison of screen- and symptom-detected celiac disease patients at diagnosis and during follow-up: A prospective cohort study

Poster pitching (á 3 min)

10:30 Coffee break & R2B projects pitching

- Glue4Life
- Im.Engine
- OrganAnalyttics

**11:00 SESSION 2**

Chair Assistant Professor Xin Lai, co-chair Dr. Huy Tran

11:00 **Keynote: Professor Jan Hasenauer, University of Bonn:**  
***Mechanistic modelling and machine learning: A love story***

Poster pitching (á 3 min)

12:00 Self-paid lunch & posters

**13:00 SESSION 3**

Chair Associate Professor Minni Änkö, co-chair Timo Ahola

13:00 **MET Research Highlights talk** (á 13+2 min)  
Senior Research Fellow Juulia Jylhävä, Systems biology of ageing group: Decoding biological aging and frailty with AI and multiomics

13:15 Research presentations (á 8+2 min)

- Kaisa Tornberg: Organ-on-a-chip technology for multi-organ modelling of Stroke-Heart syndrome
- Joonas Uusi-Mäkelä: Chromatin accessibility analysis uncovers regulatory element activation landscape in prostate cancer progression
- Iida Salonen: Analysis of colorectal cancer microenvironment in the FinCRC cohort

Poster pitching (á 3 min)

14:00 Break

**14:15 SESSION 4**

Chair Academy Research Fellow Sanna Hagman, co-chair Dr. Tanja Hyvärinen

- 14:15 **MET Research Highlights talk:**  
Associate Prof. Soile Nymark, Biophysics of the eye group:  
Ionic activities in retinal pigment epithelium: From mechanisms to therapy development
- Research presentations (á 8+2 min)
- Negin Pournoori: Synthesis and systemic evaluation of the immunomodulatory potential of Heparin and Dextran sulfate-coated superparamagnetic iron oxide nanoparticles
  - Nabid Faiem: Letting data analysis methods developed in different computing environments work together – case SMASH-HCM
  - Lotta Isosaari: Exploring multicellular dynamics in glioblastoma: a 3D open-top chip model with integrated neurovascular networks for drug testing
- Poster pitching (á 3 min)
- 15:20 Poster session 1 & sparkling wine (100 min, ending at 17:00)

## Friday 29 Nov 2024 (Jarmo Visakorpi auditorium)

- 9:00 Opening words:  
Vice Dean for Research Minna Kellomäki, head of the Scientific Committee

9:05

### SESSION 5

Chair Associate Professor Karolina Louvanto

- 9:05 **Keynote: Associate Prof. Belinda Nedjai, Queen Mary University of London:**  
***DNA methylation biomarkers for early detection, diagnosis, and prognosis of HPV-related cancer care***
- 9:50 **MET Research Highlights talk:**  
Dr Kaarlo Paakinaho, The story of Biomendex
- Poster pitching (á 3 min)
- 10:20 Coffee break & R2B projects pitching

- PaMo
- L-Cell
- VirNE
- MindFlow



10:50

**SESSION 6**

Chair Professor Minna Kellomäki, co-chair Dr. Janne Koivisto

10:50

**Keynote: Assistant Professor Andrew Daly, University of Galway:**  
***Bioprinting models of the human heart at CÚRAM, the Research Ireland Centre for Medical Devices***

Poster pitching (á 3 min)

11:50

Self-paid lunch

12:40

Coffee & Visiting Commercial exhibition at Yellow Hall



13:40

**SESSION 7**

Chair Research specialist Mariaana Savia

13:40

Research presentations (á 8+2min)

- Susanna Kaksonen: Creating patient-specific iPSCs lines for celiac disease research
- Annika Ahvenjärvi: Tracking contractile movement in engineered heart tissue with virtual particles
- Jonne Nieminen: NAMPT inhibition as novel therapy in T-acute lymphoblastic leukemia

Poster pitching (á 3 min)

14:25

Closing words:  
Vice Dean for Research Minna Kellomäki

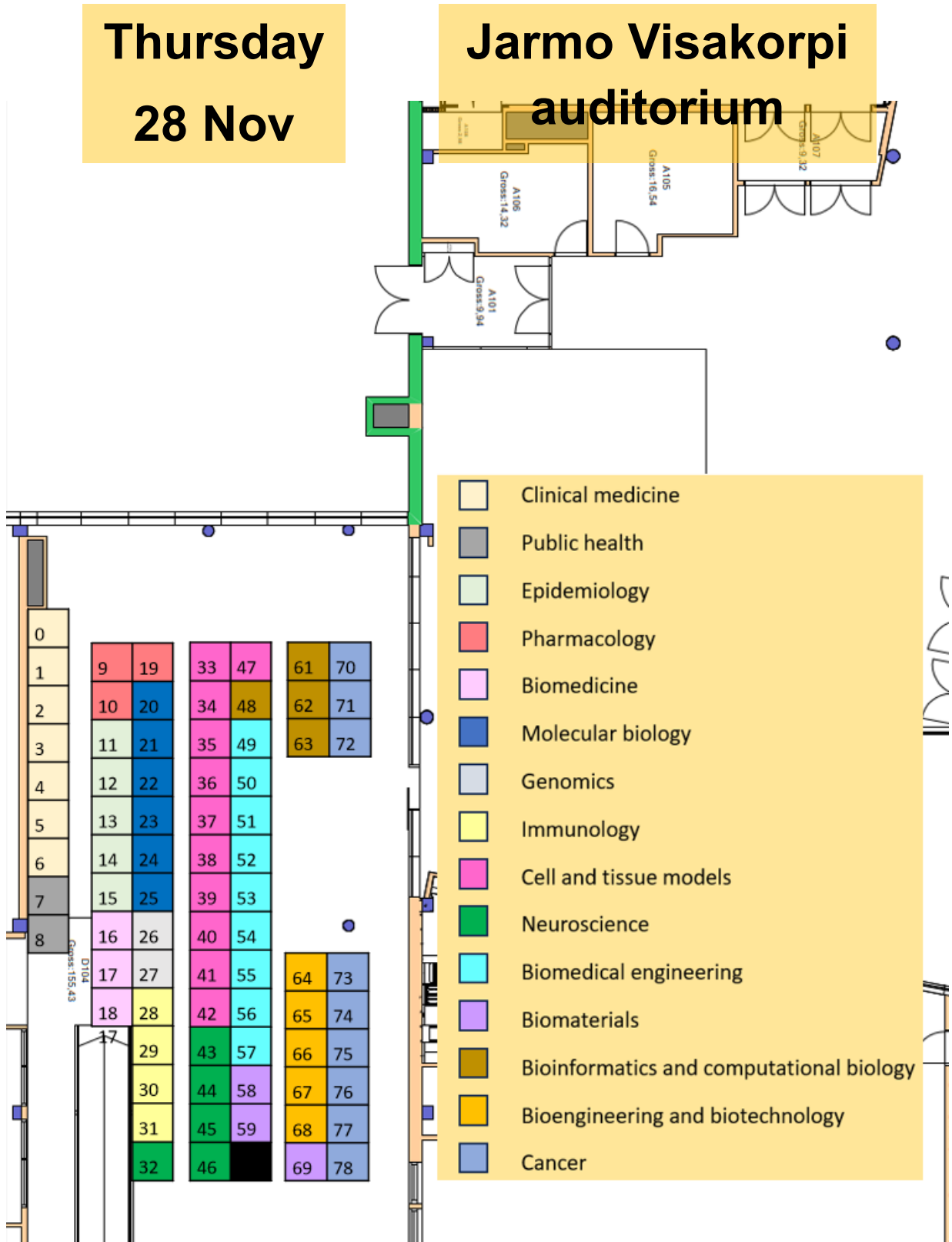
14:35

Poster session 2 & sparkling wine (85 min, ending at 16:00)

# POSTER EXHIBITION MAP, THURSDAY

**Thursday  
28 Nov**

**Jarmo Visakorpi  
auditorium**

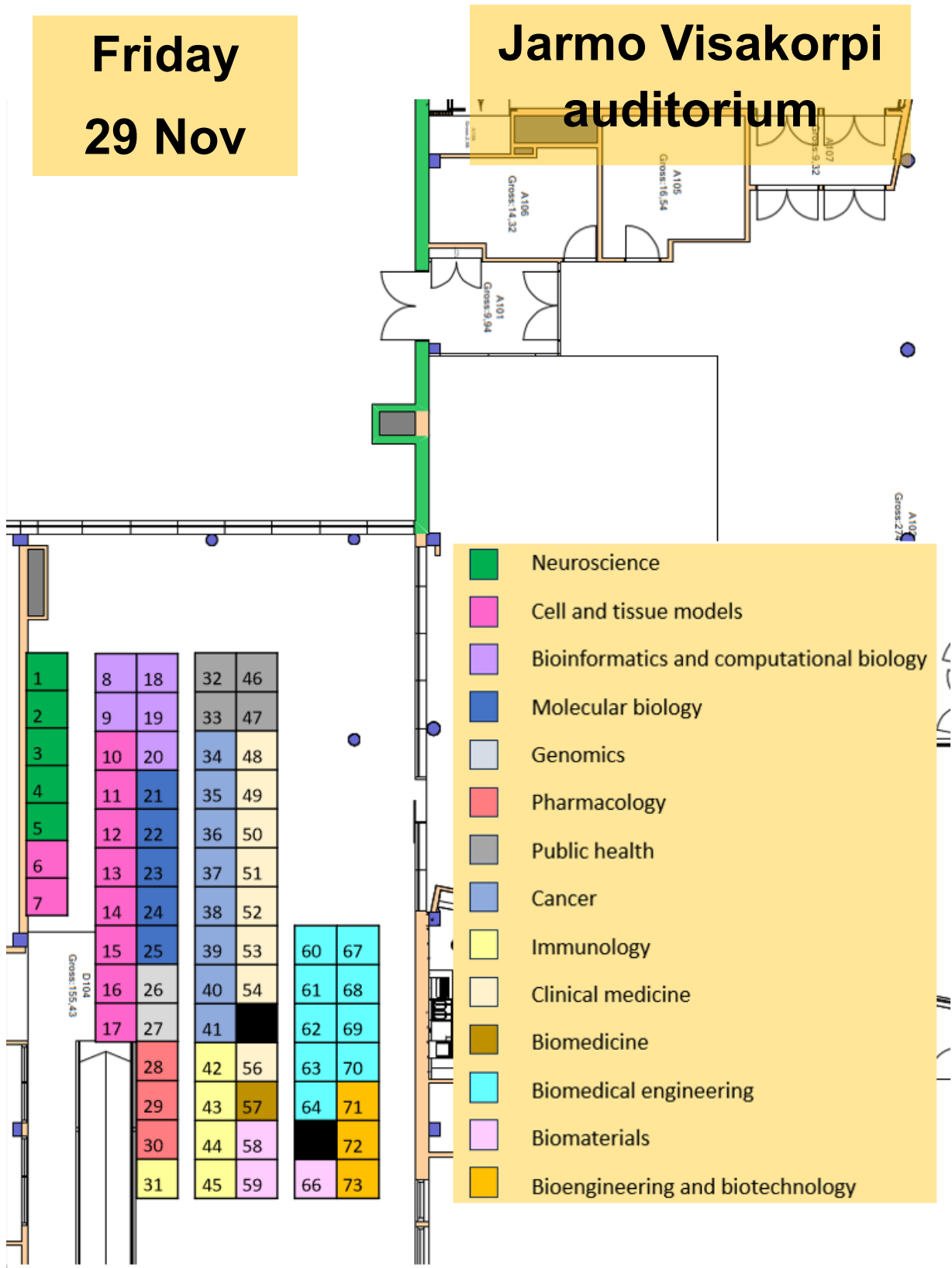




# POSTER EXHIBITION MAP, FRIDAY

**Friday  
29 Nov**

**Jarmo Visakorpi  
auditorium**



# MET RESEARCH DAY COLLABORATORS

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