



# FoHS Doctoral Researcher Symposium 2024

May 15-16, 2024

University of Eastern Finland – Snellmania – Kuopio

## Wednesday 15.5.2024

**8:00 Registration and poster set up for poster session I** (SN lobby)

**9:00 Opening** (SN100)

*Coordinators of FoHS Doctoral Programmes*

*Jussi Pihlajamäki, Dean, Faculty of Health Sciences, University of Eastern Finland*

**9:15 Keynote lecture** (SN100)

*Prof. Jukka Mönkkönen, Rector, University of Eastern Finland*

*10:00 Coffee for poster presenters and sponsors* (SN lobby)

**10:15 Poster session 1**

Posters 29-54 (SN lobby)

Coffee and exhibition (SN lobby)

**11:15 Session I – oral presentations** (SN100)

*Chairs: Doctoral researchers Sini Pitkänen and Sonja Korhonen*

*11:15 Melina Estela (DPMM) - Histological classification of rat brain using autoencoders.*

*11:30 Katri Vainionpää (DPDR) - Elevation of retinal dopamine content and metabolism in a retinitis pigmentosa mouse model*

*11:45 Raju Gudhe (DPCR) - Predicting cell type counts in whole slide histology images using evidential multi-task learning.*

*12:00 Juuso Jussila (DPHS) - Associations of active commuting and leisure-time physical activity with mental health symptoms among Finnish adults: a population-based study*

*12:15 Darren Healy (DPHS) - Longitudinal associations of low-dose air pollution with cardiometabolic outcomes in children and the role of diet*

**12:30 Lunch and exhibition** (SN lobby)

**13:45 Sponsor talk** (SN100)

*Jouko Lukkarinen, Berner Oy*

**14:00 Session II – oral presentations** (SN100)

*Chairs: Doctoral researchers Pracheta De and Johanna Matilainen*

*14:00 Mohammad Rezaie (DPMM) - Towards Standardized MEA Data Analysis: A Novel Software Framework*

*14:15 Riikka Salmi (DPDR) - Evaluation and development of the decontamination methods for firefighters' PPEs*

*14:30 Jonna Niskanen (DPMM) - Uptake of alpha-synuclein preformed fibrils is suppressed by inflammation and induces an aberrant phenotype in human microglia.*

*14:45 Sam Asher (DPCR) - Dental caries, dental hygiene and selfcare, and use of dental health services, and incident dementia – a 15-year follow-up cohort study*

*15:00 Konstantin Ivanov (DPMM) - Deep learning latent representation of multimodal single-cell data resolves molecular fingerprints of leukemic states.*

**15:15 Coffee and exhibition** (SN lobby)

**16:00 Session III – oral presentations** (SN100)

*Chairs: Doctoral researchers Vilma Liikonen and Anneli Vauhkonen*

*16:00 Johannes Hiltunen (DPMM) - Chromatin co-occupancy of glucocorticoid receptor and tumor suppressor p63 is evident in normal prostate and devoid in prostate cancer.*

*16:15 Mireia Gomez-Budia (DPMM) - Unravelling LTP-like synaptic plasticity in human cortical biopsies on microelectrode arrays*

*16:30 Juulia Järvinen (DPDR) - Altering distribution profile of palbociclib by its prodrugs.*

*16:45 Heidi Pulkkinen (DPMM) - BMP2 as a pro-angiogenic factor and therapeutic transgene for treatment of CAD*

**17:00 Closing words and end of day 1** (SN100)

*Coordinators of FoHS Doctoral Programmes*

**18:30 Networking and dinner at Puikkari**

## Thursday 16.5.

**8:00 Poster set up / Poster session II** (SN lobby)

*8:45 Coffee for poster presenters and sponsors* (SN lobby)

**9:00 Poster session 2**

Posters 55-82 (SN lobby)

Coffee and exhibition (SN lobby)

**10:00 Invited lecture (SN100)**

*Tuija Keinonen, PhD (Pharm), CEO Oy Tsuyako Ltd and Advisor to the Board and Management Rokote Laboratories Finland*

**10:45 Session IV – oral presentations** (SN100)

*Chairs: Doctoral researchers Sonja Korhonen and Sini Pitkänen*

*10:45 Anneli Vauhkonen (DPHS) - Community-based Participatory Occupational Well-being Intervention for Educators (CBP-OWE) among health care educators in Finland and Estonia*

*11:00 Bharadwaja Velidendra (DPMM) – Transcriptional regulation of anti-inflammatory glucocorticoid signaling*

*11:15 Aino-Kaisa Piironen (DPMM) - Susceptibility biomarkers of mental health issues in adolescence*

*11:30 Orwa Al Abdulla (DPHS) - Enhancing COVID-19 Vaccination Uptake in Conflict-Affected Regions: Strategies, Perceptions, and Determinants in Northwest Syria*

**11:45 Lunch and exhibition** (SN lobby)

**13:00 Session V – oral presentations 12 min, 3 min discussion** (SN100)

*Chairs: Doctoral researchers Jonna Niskanen and Maria Gotkiewicz*

*13:00 Sara Kälvälä (DPMM) - Alpha-synuclein preformed fibrils self-propagate in midbrain organoid slice cultures, leading to impaired neuronal function.*

*13:15 Juha Pajari (DPHS) - Digital competence of health sciences educators in four European countries - first results of the doctoral research*

*13:30 Teemu J. Rintala (DPMMI) - Multi-task deep latent spaces for cancer survival and treatment response prediction*

*13:45 Otto Mustonen (DPCR) - Midlife risk factors predict long-term hip fracture risk in women: a 35-year follow-up.*

*14:00 Tiina Komulainen (DPCR) - Incidence and risk factors of transient global amnesia*

**14:15 Invited pitch on UEF research infrastructure**

*Kimmo Jokivarsi UEF Biomedical Imaging Unit and Pekka Poutiainen, Kuopio University Hospital*

*Academic preclinical PET (& PET-MRI) imaging at Kuopio*

**14:30 Coffee and exhibition** (SN 1<sup>st</sup> floor lobby)

**15:00 Session VI - oral presentations** (SN100)

*Chairs: Vilma Liikonen and Anneli Vauhkonen*

*15:00 Zhiting Wang (DPHS) - Trends of body mass index and its impact on glycemic control among patients with type 2 diabetes in Finland*

*15:15 Aravindh Ravichandran (DPMM) - Hyperpolarised metabolic MRI of stroke at low magnetic field*

*15:30 Aija Laitinen (DPHS) - Finnish pre-service classroom teachers' perspectives on food education in primary schools*

*15:45 Laura Mussalo (DPMM) - Traffic-related ultrafine particles impair mitochondrial functions in primary olfactory mucosa cells-implications for Alzheimer's disease.*

**16:00 Panel discussion: Work-life balance in doctoral studies** (SN100)

*Chair: Johanna Matilainen (DPMM)*

*Pracheta De, Doctoral researcher, Doctoral Researchers Association of the University of Eastern Finland (Itävä)*

*Sirpa Risto, University Sports coordinator, SYKETTÄ*

*Janne Saarela, Career Councillor and Occupational Health and Safety Delegate, University of Eastern Finland*

*Joanna Bunikowska, Doctoral Researcher, University of Eastern Finland*

**16:45 Closing words** (SN100)

Winners of best poster and oral presentation

*Photo: Törrönen Raija, University of Eastern Finland*

