

Posters organized according to the primary keyword and session day

Title	Presenter	Group leader	Primary keyword	Session day	Poster #
Stroke-heart syndrome on-a-chip	Emma Pesu	Katriina Aalto-Setälä	bioengineering and biotechnology	Thu 28.11.	64
Validation of deep learning-based arrhythmia classification using 12-leads ECGs: a multi-database approach	Long Dang	Professor Mark van Gils	bioengineering and biotechnology	Thu 28.11.	65
Reproducing hiPSC-CM in vitro 2D culture in silico	Ossi Noita	Jari Hyttinen	bioengineering and biotechnology	Thu 28.11.	66
A Novel Organ-on-Chip Approach for Replicating Small Intestine Architecture in Celiac Disease Research with Norbornene-modified Hydrogels	Susanna Harju	Minna Kellomäki	bioengineering and biotechnology	Thu 28.11.	67
A cell encapsulating membrane designed to house engineered ARPE-19 cells for the treatment of drug-resistant form of epilepsy	Taina Viheriälä	Pasi Kallio	bioengineering and biotechnology	Thu 28.11.	68
Development of an In-Silico Smooth Muscle Cell Model to Elucidate Mechanisms of Vascular Tone Regulation	Nicole Anderton	Jari Hyttinen	bioinformatics and computational biology	Thu 28.11.	48
Neuronal excitatory and inhibitory balance in neuron-astroglia- vasculature coupling and BOLD fMRI signal: A computational simulation study	Rok Virant	Marja-Leena Linne	bioinformatics and computational biology	Thu 28.11.	61
How mechanical force activates T cell receptor	Vasyl V. Mykuliak	Vesa P. Hytönen	bioinformatics and computational biology	Thu 28.11.	62
The Finnish Society for Bioinformatics	Xin Lai	Xin Lai	bioinformatics and computational biology	Thu 28.11.	63
Microrheology analysis and visualization toolbox	Kaisa Liimatainen	Minna Kellomäki	biomaterials	Thu 28.11.	58
Novel adhesive and 3D-printable biomaterials for corneal tissue engineering	Karoliina Hopia	Heli Skottman	biomaterials	Thu 28.11.	59
Multi-Material 3D Bioprinting of Human Stem Cells to Engineer Complex Human Corneal Structures with Stroma and Epithelium	Suvi Huhtanen	Heli Skottman	biomaterials	Thu 28.11.	69
X-Ray microtomography imaging as a method to study the small-intestinal villi vasculature – celiac disease as a model	Aino Reunamo	Jari Hyttinen	biomedical engineering	Thu 28.11.	49
Applicable standards for artificial intelligence in healthcare	Alpo Värri	Mark van Gils	biomedical engineering	Thu 28.11.	50
Imaging oxygen concentrations in bone scaffolds during cellular activity and fluid perfusion	Hannu Välimäki	Pasi Kallio	biomedical engineering	Thu 28.11.	51
Analysis of tissue properties along degradation for organ transplant assessment	Jarno Tanskanen	Jari Hyttinen	biomedical engineering	Thu 28.11.	52
SMASH-HCM – Stratification, management, and guidance of hypertrophic cardiomyopathy patients using hybrid digital twin solutions	Jussi Koivumäki	Jari Hyttinen, Mark van Gils, Katriina Aalto-Setälä	biomedical engineering	Thu 28.11.	53
Fully Self-Healing UHF RFID Tag Based on a Slot Antenna for Future Skin-Like Electronics	Nikta Pournoori	Professor Leena Ukkonen	biomedical engineering	Thu 28.11.	54
Oxygen imaging inside 3D cell constructs	Sonja Kuusinen	Pasi Kallio	biomedical engineering	Thu 28.11.	55
Graphene field-effect transistors for in vitro applications	Timo Salpavaara	Pasi Kallio	biomedical engineering	Thu 28.11.	56
Performance evaluation of ring structure implantable antenna using glass encapsulation	Zahangir Khan	Prof. Leena Ukkonen	biomedical engineering	Thu 28.11.	57
Metabolic profiles of meconium in preeclamptic and normotensive pregnancies	Elli Toivonen	Hannele Laivuori	biomedicine	Thu 28.11.	16
A novel anti-biofilm compound can improve the efficacy of rifampicin against Mycobacterium biofilms in vitro	Emilia Lintilä	Mataleena Parikka	biomedicine	Thu 28.11.	17
Early-life microbial and immunological characterization of children living in contrasting environments - Finland and rural Malawi	Noora Nurminen	Heikki Hyöty	biomedicine	Thu 28.11.	18
Hypoxia generates cell-type-dependent responses in myeloid immune cell populations in diffuse astrocytomas	Aliisa Tiihonen	Kirsi Rautajoki	cancer	Thu 28.11.	70

Hypoxia changes lipid metabolism in advanced Prostate Cancer	Alvar Saarinen	Teemu Murtola	cancer	Thu 28.11.	71
Non-coding RNA-mediated progression of IDH-mutant astrocytomas to grade 4 after treatment	Anja Hartewig	Kirsi Rautajoki	cancer	Thu 28.11.	72
Long noncoding RNA EPCART regulates translation through PI3K/AKT/mTOR pathway and PDCC4 in prostate cancer	Annika Kohvakka	Tapio Visakorpi	cancer	Thu 28.11.	73
RNF43 G659 frameshift variants differentiate primary and metachronous Lynch syndrome associated colorectal cancers	Kalle Hokkanen	Toni T. Seppälä	cancer	Thu 28.11.	74
Drug-response modulating genes in ETV6::RUNX1 childhood leukemia	Laura Oksa	Olli Lohi	cancer	Thu 28.11.	75
cAMP regulation in Glioblastoma multiforme under hypoxia	Niyati Kandikanti	Dr. Meenakshisundaram Kandhavelu - Molecular Signaling Group; Prof. Dr. Pasi Kallio - Micro- and nano- systems Group.	cancer	Thu 28.11.	76
Investigating the Dual Targeting Mechanism of Vorapaxar as a PAR1 Antagonist and GPR17 Agonist for Glioblastoma Multiforme Therapy	Sana Kari	Meenakshisundaram Kandhavelu	cancer	Thu 28.11.	77
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Regulation of cell-cell connectivity via gap junctions in the retinal pigment epithelium	Anna-Sofia Mäkitiura	Soile Nymark	cell and tissue models	Thu 28.11.	33
The effect of adipose-derived stem cells, IGF-1 and IGF-2 to skeletal muscle differentiation in vitro	Ella Lampela	Susanna Miettinen	cell and tissue models	Thu 28.11.	34
Hydrogel screening for 3D vascularization model on-chip	Kati Rinnekari	Susanna Miettinen	cell and tissue models	Thu 28.11.	35
Investigation of human engineered heart tissues from human iPSC-cardiomyocytes on a hypoxia on-a-chip platform	Lotta Kulmala	Katriina Aalto-Setälä	cell and tissue models	Thu 28.11.	36
Phagocytosis of photoreceptor outer segments by retinal pigment epithelium imaged in living zebrafish	Noora Nevala	Soile Nymark	cell and tissue models	Thu 28.11.	37
Assessing transport route of gliadin through the small intestinal epithelium	Outi Liang	Kati Juuti-Uusitalo	cell and tissue models	Thu 28.11.	38
RNA binding proteins and localized RNA determining platelet function	Piia Takabe	Minni Änkö	cell and tissue models	Thu 28.11.	39
Optimizing iPSC maturation towards small intestinal epithelial cells	Siiri Hyvärinen	Katri Lindfors	cell and tissue models	Thu 28.11.	40
Effect of neurons and culturing conditions on adipogenic differentiation of adipose stromal/stem cells on a 3D microfluidic environment.	Sini Saarimaa	Susanna Miettinen (Adult Stem Cell Group), Susanna Narkilahti (Neuro Group)	cell and tissue models	Thu 28.11.	41
Microglial Activation in Multiple Sclerosis: An in vitro Approach	Tanja Hyvärinen	Sanna Hagman	cell and tissue models	Thu 28.11.	42
Modelling ischemic brain stroke in vitro	Venla Harju	Susanna Narkilahti	cell and tissue models	Thu 28.11.	47
Clinical significance of borderline negative and low positive transglutaminase antibody levels in celiac disease	Celina Turunen Beteta	Katri Kaukinen	clinical medicine	Thu 28.11.	1
Induced abortion rates among women vaccinated against human papillomavirus	Kaisa Taavela	Karolina Louvanto	clinical medicine	Thu 28.11.	2
Factors associated with adherence to a gluten-free diet in patients with concomitant celiac disease and type 1 diabetes	Laura Kallio	Kalle Kurppa	clinical medicine	Thu 28.11.	3

Information security knowledge in supplementary management and leadership studies in medical/dental specialist training: Using self-assessment and simulated scenarios	Mirkka Forssell	Tuomas Koskela	clinical medicine	Thu 28.11.	4
Duration from pre-eclampsia diagnosis to delivery and risk for future cardiovascular morbidity	Nina Keitaanpää	Hannele Laivuori	clinical medicine	Thu 28.11.	5
Aortic elastic fiber degeneration during acute type a aortic dissection suggests ongoing frailty	Trina Chen	Timo Paavonen	clinical medicine	Thu 28.11.	6
Circulating miRNAs as early biomarkers for essential hypertension and vascular dysfunction	Daria Kostiniuk	Emma Raitoharju	epidemiology	Thu 28.11.	11
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Epstein-Barr virus (EBV) serology impact on persistent oral human papillomavirus (HPV) infections in men	Sanni Rinne	Karolina Louvanto	epidemiology	Thu 28.11.	14
The prevalence of celiac disease in China: a systematic scoping review with emphasis on the used testing methodologies	Sara Koskimaa	Kalle Kurppa	epidemiology	Thu 28.11.	15
Utilizing the Finngen data to understand the genetic predisposition of post finasteride syndrome	Alfonso Urbanucci	Alfonso Urbanucci	genomics	Thu 28.11.	26
Discovering age and sex-specific genetic risk factors in sensorineural hearing loss: genome-wide evidence from large-scale biobanks	Argyro Bizaki-Vallaskangas	Argyro Bizaki-Vallaskangas	genomics	Thu 28.11.	27
Clonal expansion of B cells in active autoimmune disease	Helka Kaunisto	Katri Lindfors	immunology	Thu 28.11.	28
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Heat treatment combined with antibiotics leads to enhanced killing of mycobacteria in biofilms	Alina Sillanpää	Mataleena Parikka	molecular biology	Thu 28.11.	20
Raising the BAR – Role of BAR-domain protein BIN1 in nuclear envelope invagination	Elina Mäntylä	Teemu Ihalainen	molecular biology	Thu 28.11.	21
Ex vivo proteomics to uncover temporal proteome dynamics and metabolic shifts of mycobacterium marinum during zebrafish infection	Lauri Paulamäki	Mataleena Parikka	molecular biology	Thu 28.11.	22
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Exploring kainic acid-induced alterations in circular tripartite networks with advanced analysis tools	Andrey Vinogradov	Susanna Narkilahti	neuroscience	Thu 28.11.	32
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Association between persistent HPV16 infection and salivary microbiome in pregnant women in a longitudinal 3-year follow-up	Tangtian He	Prof. Karolina Louvanto	bioinformatics and computational biology	Fri 29.11.	18
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Versatile Blue Light-Based Hydrogel Bioconjugation System	Austin Evans	Vesa Hytönen and Oommen P. Oommen	biomaterials	Fri 29.11.	59
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COVID-19 pandemic impact on gynecologic cancer treatment pathways in a Finnish tertiary center	Hanna Pikkujämsä	Karolina Louvanto	cancer	Fri 29.11.	35
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DNA methylation based regulation and neuro-developmental trajectories of central nervous system tumors	Laura Huhtala	Kirsi Rautajoki	cancer	Fri 29.11.	39
Identification of genes with aberrant expression in metastatic prostate cancer	Mina Sattari	Tapio Visakorpi	cancer	Fri 29.11.	40
FGFR3-TACC3 fusion protein drives cell migration and aberrant calcium signaling response in glioblastoma	Navoda Epitagama Liyana Arachchige	Kirsi J Rautajoki	cancer	Fri 29.11.	41
Co-differentiation of corneal keratocyte-like cells along with endothelial cells from human pluripotent stem cells - from heterogeneity towards enriched cell populations.	Abhinav Reddy Kethiri	Heli Skottman	cell and tissue models	Fri 29.11.	6
Effects of Obesity on the Angiogenic and Vasculogenic Potential of Adipose Stromal Cells in a Microfluidic Device	Amna Adnan	Susanna Miettinen	cell and tissue models	Fri 29.11.	7
The effects of Celiac Disease bacteria on Caco-2 cell line viability	Flávio Costa	Sónia Gonçalves Pereira (Research Project Leader), project with CeliRes collaboration	cell and tissue models	Fri 29.11.	10
Investigating myelin induced inflammatory state of iPSC-derived microglia	Johanna Lotila	Sanna Hagman	cell and tissue models	Fri 29.11.	11
A hypoxia-maintaining perfusion chip for prolonged cell studies	Karim Ameziane	Pasi Kallio	cell and tissue models	Fri 29.11.	12
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In vitro model of retinal pigment epithelium interface with retina enabling characterization of force transmission during phagocytosis	Sanna Korpela	Teemu Ihalainen	cell and tissue models	Fri 29.11.	16
Modelling liver zonation: Enhancing iPSC-derived hepatocyte maturation via controlled oxygen microenvironment	Siiri Suominen	Katriina Aalto-Setälä	cell and tissue models	Fri 29.11.	17
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Long-Term Cardiovascular Risk in Women with Hypertensive Pregnancy: Insights from Polygenic Risk Scores	Anna Kivioja/Jaakko Tyrmi	Hannele Laivuori	clinical medicine	Fri 29.11.	49
Alarm symptoms indicate more severe celiac disease at the time of diagnosis, but long-term prognosis is good	Eneli Katunin	Kalle Kurppa, Katri Kaukinen	clinical medicine	Fri 29.11.	50
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Measurements of membrane potential in retinal pigment epithelium during phagocytosis	Viivi Karema-Jokinen	Soile Nymark	molecular biology	Fri 29.11.	25
Electric field temporal interference stimulation of neurons in vitro	Annika Ahtiainen	Jari Hyttinen	neuroscience	Fri 29.11.	1
Progress Toward Translating On-Chip Parkinson's Disease Signatures: Characterization of Patient-Derived LRRK2-Mutant Neuronal Networks	Emre Kapucu	Susanna Narkilahti	neuroscience	Fri 29.11.	2
CellRemorph: a computational toolkit for deciphering the relationship between cellular morphology and function	Laura Keto	Marja-Leena Linne	neuroscience	Fri 29.11.	3
Identification of kainic acid-mediated dose-dependent responses on human cortical neuronal networks in vitro	Oskari Kuluta	Susanna Narkilahti	neuroscience	Fri 29.11.	4
High angular resolution diffusion-weighted imaging and higher order tractography of the white matter tracts in the anterior thalamic area: Insights into deep brain stimulation targeting	Ruhunur Özdemir	Jukka Peltola	neuroscience	Fri 29.11.	5
Lingonberry supplementation induces health-promoting effects on gut microbiome in experimental obesity	Iiro Piippo	Eeva Moilanen	pharmacology	Fri 29.11.	28
TRPA1 regulates gene expression in lung epithelial cells under inflammatory conditions in vitro. RNA-Seq based study.	Leevi Halonen	Eeva Moilanen	pharmacology	Fri 29.11.	29

Lingonberry (<i>vaccinium vitis-idaea</i> L.) skin extract prevents weight gain and hyperglycemia in high-fat diet-induced model of obesity in mice	Riitta Ryyti	Eeva Moilanen	pharmacology	Fri 29.11.	30
Research Council of Finland/ FIRI 2024 – 2026: Holistic Utilization of Wastewater-Based Surveillance – Wastewater as an Indicator of Public Health (TAU-WBS)	Lackson Kashobwe	Environmental Health Research Group	public health	Fri 29.11.	32
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Clinical significance of borderline negative and low positive transglutaminase antibody levels in celiac disease	Celina Turunen Beteta	Katri Kaukinen	clinical medicine	Thu 28.11.	1
Circulating miRNAs as early biomarkers for essential hypertension and vascular dysfunction	Daria Kostiniuk	Emma Raitoharju	epidemiology	Thu 28.11.	11
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