BioCity Turku Announcement 48/2024

This week

* MBC Bioinformatics Consultation, 26th November at 13:00
* Find Partners for HE Health Calls, 28th November at 12:00
* IPP Seminar meets TREMENDO, 28th November at 15:00, de Weerth
* CellCom Seminar, 28th November at 12:30, Lennon
* PiF Friday Café, 29th November at 13:00, Viitala

Next week

* Immunology Seminar, 3rd December at 14:00, Dufva
* TCRS Christmas Seminar, 3rd December at 15:00
* MSc Thesis Project Expo, 4th December at 09:00
* SPARK Europe Webinar, 4th December at 17:00, Schow
* Frontiers of Science, 5th December at 12:00, Küster

In near future

* European Partnership Event, 9th December at 14:00
* RSC-FLS Symposium 2024, 10th December
* Frontiers of Science, December 12th at 12:00, Heick Jensen
* TREMENDO Seminar, 12th December at 14:00, Hakkola

Courses

* Johdatus bioturvallisuuteen

Open calls

* canSERV
* SPARK Finland

Open positions

* Postdoctoral researchers

Links to recruitment pages

Turku BioNet Seminar Calendar
Kiinamyllyn viikkokalenteri
PGE Course Calendar

MBC Bioinformatics Consultation

26th November at 13-14
Onsite event
in Biocity, 7th floor small seminar room

BIOCITY TURKU
BIOCITY TURKU
BIOCITY TURKU
ACADEMIC EXCELLENCE IN LIFE SCIENCE AND MEDICINE

biocityturku@bioscience.fi

Open bioinformatics consultation sessions are organized regularly on-site (in Biocity). Feel free to pop in without reservation and ask about bioinformatics, experimental design and data analysis. The consultation sessions are organized under the Biocenter Finland Bioinformatics platform and they are open to all academic researchers.

All discussions are private – please wait for your turn in the corridor.

More information and tentative schedule: https://elolab.utu.fi/mbc-bioinformatics-consultation/
Changes to the schedule are possible and will be updated on this page.

Read more about MBC and the training and support options available: https://elolab.utu.fi

Everyone warmly welcome!

Find Partners for HE Health Calls

28th November at 12:15-16:00
On-site event
in Workshop auditorium, Joki innovation centre 3rd floor

Join us for a dynamic event dedicated to networking, collaboration, and project development around the Horizon Europe Health calls. We bring together researchers from diverse disciplines and provide a platform for companies and other stakeholders interested in health-related topics, and aim to foster collaboration and support the formation of consortia for Horizon Europe or other funding proposals

We'll begin the afternoon with inspiring keynote talks, offering insights from both academic and industry perspectives. Afterward, engaging group discussions will take place, and participants are warmly invited to stay for networking and refreshments until 17:00. There is place for 50 participants, first come first serve. Don't miss this opportunity to connect, share ideas, and spark new partnerships!

Secure your spot and register at latest 22 November 2024:
https://link.webropolsurveys.com/S/2BD99560A4906E79

More information about the event: https://www.utu.fi/en/news/news/find-partners-for-horizon-europe-health-calls-in-a-networking-event-on-28-november-2024

IPP Seminar meets TREMENDO

28th November at 15:00
Onsite event
Lauren 1, Medisiina D1017
Autumn 2024 program

BIOCITY TURKU
BIOCITY TURKU
BIOCITY TURKU
ACADEMIC EXCELLENCE IN LIFE SCIENCE AND MEDICINE

biocityturku@bioscience.fi

Prof. Carolina de Weerth, MD, PhD, Radboud university Medical Center, Nijmegen, the Netherlands
Stress in Early Life - Mechanisms and Potential Impact

Carolina de Weerth obtained a master in biology (animal behavior, Utrecht University) and a PhD in developmental psychology (University of Groningen). After a 5-year postdoc position at the department of child psychiatry (Utrecht University Medical Center), de Weerth obtained an important personal Vidi grant and was offered a permanent position at the department of developmental psychology of Radboud University where she worked for 15 years. De Weerth became full professor in 2014. In 2018, after being awarded a prestigious personal Vici grant, de Weerth became PI and group leader at the Radboud University Medical Center (Radboudumc) and Donders Institute. De Weerth carries out innovative research focusing on uncovering how early environmental factors influence development, partly determining children's further life trajectories. She specifically studies relations between prenatal and postnatal maternal stress and anxiety, as well as caregiving choices and quality, on children's development, including physical health and behavioral regulation. De Weerth includes relevant physiological systems and biomarkers to uncover the mechanisms underlying these relations (e.g., intestinal microbiota, hypothalamic-pituitary-adrenal (HPA) axis, maternal milk and telomeres).

Maternal prenatal and postnatal stress has been often associated with infant physical development and health, as well as psychological functioning and behavior. In this TREMENDO seminar presentation professor de Weerth will talk about stress in early life in low-risk community samples. The presentation will revolve around several questions related to the impact and mechanisms of stress in healthy, low-risk samples of young children. She will introduce results from multidisciplinary prospective longitudinal studies from the Developmental Psychobiology Lab (DPBlab) which include also a range of biological measures of stress physiology.

IPP seminar series covers the diversity of biomedical/medical research performed in Integrative Physiology and Pharmacology research unit in Institute of Biomedicine, University of Turku plus interesting talks by visitors from national and international research collaboration networks.IPP seminar series covers the diversity of biomedical/medical research performed in Integrative Physiology and Pharmacology research unit in Institute of Biomedicine, University of Turku plus interesting talks by visitors from national and international research collaboration networks.

CellCom Seminar

28th November at 12:30-13:30
Onsite event
in Biocity building, Åbo Akademi 3rd floor Biochemistry seminar room, A-side

Prof. Rachel Lennon, Director of the Wellcome Trust Centre for Cell-Matrix Research, University of Manchester, UK
Too much turnover - basement membrane dynamics in disease

Host: Johanna Ivaska (johanna.ivaska@utu.fi)

BIOCITY TURKU
BIOCITY TURKU
BIOCITY TURKU
ACADEMIC EXCELLENCE IN LIFE SCIENCE AND MEDICINE

biocityturku@bioscience.fi

Coffee and pulla will be served beforehand, so please arrive a few minutes earlier. First come, first served.

Prof. Lennon is available on Thursday for scientific discussions. If you would like to book a meeting with her, please contact Johanna Ivaska (johanna.ivaska@utu.fi). Also, Rachel will be Jasmin Kaivola's PhD opponent on Friday 29th of November in Calonia (Cal I auditorium) at 12.00.

Understanding mechanisms of glomerular disease, the leading cause of kidney disease in adults and children. The glomerular capillary wall is a highly sophisticated filtration barrier that comprises specialised endothelial cells, the glomerular basement membrane and specialised epithelial cells known as podocytes. Basement membrane regulation is fundamentally required for barrier integrity. The Lennon lab have developed proteomic methods to resolve the cell adhesion-matrix interface and have interrogated ultrastructure using serial block-face scanning electron microscopy. Using a combination of in vitro systems (glomerular cell coculture, kidney organoids) and animal models (mouse, zebrafish) they seek to understand mechanisms of glomerular barrier injury and repair.

Selected publications

Stark Z, Byrne AB, Sampson MG, Lennon R, Mallett AJ. A guide to gene-disease relationships in nephrology. *Nat Rev Nephrol*. 2024 Oct 23. doi: 10.1038/s41581-024-00900-7.

Tian P, Koudis NM, Morais MRPT, Pickard A, Fresquet M, Adamson A, Derby B, Lennon R. Collagen IV assembly is influenced by fluid flow in kidney cell-derived matrices. *Cells Dev.* 2024 Sep;179:203923. doi:0.1016/j.cdev.2024.203923.

Chew C, Brand OJ, Yamamura T, Lawless C, Morais MRPT, Zeef L, Lin IH, Howell G, Lui S, Lausecker F, Jagger C, Shaw TN, Krishnan S, McClure FA, Bridgeman H, Wemyss K, Konkel JE, Hussell T, Lennon R. Kidney resident macrophages have distinct subsets and multifunctional roles. *Matrix Biol.* 2024 Mar;127:23-37. doi: 10.1016/j.matbio.2024.02.002.

Morais MRPT, Tian P, O'cualain R, Lawless C, Lennon R. Protocol to characterize basement membranes during kidney development using mass spectrometry-based label-free quantitative proteomics. *STAR Protoc.* 2023 Dec 15;4(4):102741. doi: 10.1016/j.xpro.2023.102741.

Hewitt RJ, Puttur F, Gaboriau DCA, Fercoq F, Fresquet M, Traves WJ, Yates LL Walker SA, Molyneaux PL, Kemp SV, Nicholson AG, Rice A, Roberts E, Lennon R, Carlin LM, Byrne AJ, Maher TM, Lloyd CM. Lung extracellular matrix modulates KRT5+ basal cell activity in pulmonary fibrosis. *Nat Commun.* 2023 Sep 27;14(1):6039. doi: 10.1038/s41467-023-41621-y.

PiF Friday Café

BIOCITY TURKU
BIOCITY TURKU
BIOCITY TURKU
ACADEMIC EXCELLENCE IN LIFE SCIENCE AND MEDICINE

biocityturku@bioscience.fi

29th November at 13:00
Onsite event
in MediCity Seminar Room 4009, BioCity 4th Floor

Prof. Tapani Viitala, Åbo Akademi University; Univeristy of Helsinki
How niche research can lead to successful industrial collaborations

Welcome to this year's last Postdocs in Flames (PiF) Friday Café, where you will hear more about academia-industry collaborative projects. Coffee, pulla, and smoothies are served. First come, first serve!

Viitala research group has since 2010 focused on developing real-time label-free physico-chemical based analytical platforms for characterization of nanoparticle-based drug delivery systems and for measuring complex biological interactions. This is a very niche research area, but currently his research group is overloaded with requests for collaborations, because their unique analysis platforms provide information that is currently not possible to obtain with the state-of-the art techniques in life sciences. This has also given them the opportunity to receive several academia-industry projects funded by Business Finland Co-Innovation, Finnish Research Impact Foundation and PoDoCo. In this presentation, Tapani will shortly describe their analysis platforms, how they have been able to engage with industrial partners and what has been their guiding theses on their path when developing their analytical platforms.

More details about the event from Ábris Bendes (abris.bendes@utu.fi)

Immunology Seminar

3rd December 14-15
Virtual event
In Zoom
Flyer

Dr. Olli Dufva, Wellcome Sanger Insitute, Cambridge Stem Cell Institute, University of Cambridge, UK
Single-cell functional genomics of natural killer cell evasion in cancer

Host: Riitta Lahesmaa (rilahes@utu.fi)

Register for the Immunology Seminar Series email list to get calendar invitation to the online seminar: https://link.webropolsurveys.com/S/D29C32AA6E8A2F7A

Immunology seminar series is jointly organised by the Finnish Society for Immunology, InFLAMES Flagship and Turku Bioscience. For further information contact Anne Lahdenperä (ankahy@utu.fi) or Riitta Lahesmaa (rilahes@utu.fi), University of Turku.

BIOCITY TURKU
BIOCITY TURKU
BIOCITY TURKU
ACADEMIC EXCELLENCE IN LIFE SCIENCE AND MEDICINE

biocityturku@bioscience.fi

Olli Dufva is a physician-scientist and a postdoctoral fellow at the Wellcome Sanger Institute and University of Cambridge in the laboratories of Prof Sarah Teichmann and Dr Mathew Garnett. His research focuses on deciphering genomic determinants of anti-cancer immunity and developing improved cellular immunotherapies using single-cell genomics, organoid models and genetic engineering. Olli completed his medical degree and his PhD at the University of Helsinki, where he studied immune interactions and precision medicine in blood cancers with Prof Satu Mustjoki. This year Olli Dufva was awarded the ACTERIA Doctoral Thesis Prize in Immunology for his work on "Functional Immunogenomics in Hematological Malignancies".

Olli's work at the intersection of immunology and cancer has included mapping the immunogenomic landscape of blood cancers by integrating transcriptomic and multi-omic data across thousands of patient samples and applying high-throughput drug screens, CRISPR screens, and single-cell analysis to lymphocyte – cancer cell co-cultures to find immunotherapy-enhancing drugs and genetic resistance mechanisms.

Selected publications

Dufva O, Gandolfi S, …, Mitsiades CS, Mustjoki S. Single-cell functional genomics reveals determinants of sensitivity and resistance to natural killer cells in blood cancers. Immunity. 2023 doi: 10.1016/j.immuni.2023.11.008

Dufva O, Pölönen P, …, Heinäniemi M, Mustjoki S. Immunogenomic Landscape of Hematological Malignancies. Cancer Cell. 2020 doi: 10.1016/j.ccell.2020.06.002

Dufva O, Koski J, Maliniemi P, …, Keränen MAI, Korhonen M, Mustjoki S. Integrated drug profiling and CRISPR screening identify essential pathways for CAR T-cell cytotoxicity. Blood. 2020 doi: 10.1182/blood.2019002121

TCRS Christmas Seminar

3rd December at 15:00-20:00
On-site event
in Alhopuro Auditorium, Medisiina D

Turku Cancer Research Society invites all cancer researchers to our Christmas Seminar, and everyone is welcome, from students and researchers to medical doctors. This year there will be several interesting talks by cancer researchers working in different Finnish companies. The winner of the Best Cancer Research Thesis Award will also present his/her thesis (Sirpa and the Markku Jalkanen foundation).

As is tradition, we will have a Christmas dinner for the society members, thanks to our sponsors ThermoFisher and BioNordika.

BIOCITY TURKU
BIOCITY TURKU
BIOCITY TURKU
ACADEMIC EXCELLENCE IN LIFE SCIENCE AND MEDICINE

biocityturku@bioscience.fi

Please register at latest 25.11.2024: https://link.webropolsurveys.com/EP/328D0BAFADACB277

More information from Gabriela Martínez (gabriela.chacon@utu.fi)

MSc Thesis Project Expo

4th December at 09:00-11:00
On-site event
in Cave auditorium, Joki Innovation Centre

Are you running a life-science lab and looking for MSc students to join your group? Come to the MSc Thesis Project Expo and pick the best students!

MSc Thesis Project Expo is a networking event for bioscience related MSc students and for research groups to meet and get to know one another. The event is intended for both domestic and international bioscience related MSc degree students from both University of Turku and Åbo Akademi University, and it replaces the previous research group presentation events.

The event is organized as a poster exhibition, only one poster (vertical A0) per PI. **Register your group to the event only if you have the possibility to take a MSc thesis student in the upcoming year**. There is place for the first 50 research groups.
https://link.webropolsurveys.com/S/EE016D6A1B60FFB6

The event and the Moodle-site will be promoted to bioscience related MSc students from the Faculty of Medicine (UTU), Faculty of Science and Engineering (ÅAU) and Departments of Life Technologies and Biology (UTU).

More information:
https://www.utu.fi/en/news/news/msc-thesis-project-expo-is-arranged-on-4-december-2024-come-along

---

SPARK Europe Webinar

4th December at 17:00
Online event
Autumn 2024 flyer

Steceve Schow, SPARK BIH
Telik story: The rise and fall of a biotech company

SPARK Europe has joint forces for education on translational research and technology transfer! For the sixth time, European SPARK sites will host a joint webinar series during fall 2024.

Frontiers of Science

BIOCITY TURKU
BIOCITY TURKU
BIOCITY TURKU
ACADEMIC EXCELLENCE IN LIFE SCIENCE AND MEDICINE

biocityturku@bioscience.fi

December 5th at 12:00
Onsite event
in Presidentti auditorium, BioCity
Autumn 2024 program

Prof. Bernhard Küster, Technical University of Munich, Germany
Cancer patient and drug proteome profiling enhance treatment recommendations in molecular tumor boards
Host: Otto Kauko (otto.kauko@utu.fi)

Coffee and sandwich at 11:45, first come first served!

Six PhD researchers and early-career postdocs are welcome to **have a lunch and discuss with Prof. Küster** after the seminar. This is a great possibility to learn hosting skills in a friendly environment and create connections for future. Everyone is welcome to join, BioCity Turku will offer the lunch.

If you got interested, please send an email to biocityturku@bioscience.fi

Prof. Küster leads Proteomics and Bioanalytics group at the Technical University of Munich, which comprises an international research team with a focus on proteomics and chemical biology. Most of their research builds on the powerful combination of cell biology, chemistry, biochemistry, mass spectrometry and bioinformatics. The group develops novel analytical methods for quantitative proteome research notably for high throughput applications and the analysis of post translational protein modifications (PTMs). In their chemical biology efforts, they elucidate the selectivity of drug-target interactions on a proteome-wide scale, investigate the cellular mechanisms by which drugs exert their function and identify mechanisms of cancer therapy resistance. In addition, the group investigates phosphoproteomic signaling events as biomarkers for patient stratification, as well as indicators of drug effectiveness and treatment response.

Selected publications

Chang YC, Gnann C, Steimbach RR, Bayer FP, Lechner S, Sakhteman A, Abele M, Zecha J, Trendel J, The M, Lundberg E, Miller AK, Kuster B. 2024. Decrypting lysine deacetylase inhibitor action and protein modifications by dose-resolved proteomics. Cell Rep. 43(6):114272. doi: 10.1016/j.celrep.2024.114272

Eckert S, Berner N, Kramer K, Schneider A, Müller J, Lechner S, Brajkovic S, Sakhteman A, Graetz C, Fackler J, Dudek M, Pfaffl MW, Knolle P, Wilhelm S, Kuster B. 2024. Decrypting the molecular basis of cellular drug phenotypes by dose-resolved expression proteomics. Nat Biotechnol. doi: 10.1038/s41587-024-02218-y

BIOCITY TURKU
BIOCITY TURKU
BIOCITY TURKU
ACADEMIC EXCELLENCE IN LIFE SCIENCE AND MEDICINE

biocityturku@bioscience.fi

Reinecke M, Brear P, Vornholz L, Berger BT, Seefried F, Wilhelm S, Samaras P, Gyenis L, Litchfield DW, Médard G, Müller S, Ruland J, Hyvönen M, Wilhelm M, Kuster B. 2024. Chemical proteomics reveals the target landscape of 1,000 kinase inhibitors. Nat Chem Biol. 20(5):577-585. doi: 10.1038/s41589-023-01459-3.

Lechner S, Steimbach RR, Wang L, Deline ML, Chang YC, Fromme T, Klingenspor M, Matthias P, Miller AK, Médard G, Kuster B. 2026. Chemoproteomic target deconvolution reveals Histone Deacetylases as targets of (R)-lipoic acid. Nat Commun. 14(1):3548. doi: 10.1038/s41467-023-39151-8.

General information

- You can download and save all the autumn 2024 FoS-seminars to your calendar from here: https://seafile.utu.fi/d/44a70f80ac1e46a9ad0a/
- Registration is not needed, participation list is circulated in the audience
- If you are a student and later wish to get a certificate of attendance from the Frontier of Science seminars, print out the seminar diary and after the seminar ask the BioCity coordinator to sign it https://seafile.utu.fi/d/44a70f80ac1e46a9ad0a/
- Please note that any audio or video recording of the seminars is strictly forbidden.
- Autumn 2024 image credits to Mia Åstrand: Details of the Bacteroides fragilis VgrG protein (PDB ID: 8GRA). Image created in the PyMOL Molecular Graphics System, Version 2.5 Schrödinger, LLC.

European Partnership Event

9th December at 14:00-16:30 (local Brussels time)
On-site event
in Permanent Representation of Finland to the EU
Avenue de Cortenbergh 80, Brussels

Join us in an inspiring event exploring how universities are contributing to the European partnerships and how they can work more effectively with companies to achieve the goals of the EU. The European Partnerships bring together the European Commission and the private and/or public partners with the aim to find solutions to European and global challenges through research and innovation, they are a key element in implementing the Horizon Europe programme. Lessons learned from partnerships are also feeding into the next Framework programme.

The role of European partnerships in facilitating a sustainable and competitive Europe

14.00 Coffee, mix and mingle

BIOCITY TURKU
BIOCITY TURKU
BIOCITY TURKU
ACADEMIC EXCELLENCE IN LIFE SCIENCE AND MEDICINE
biocityturku@bioscience.fi

14.30 Opening words and welcome
Jukka Kola, Director EU & RDI Affairs, University of Turku
Niina Nurkkala, Senior Specialist research & Innovation, space, Euratom, Permanent Representation of Finland to the EU

14.35 Invited short talks
THE ROLE OF RESEARCH ORGANISATIONS IN EUROPEAN PARTNERSHIPS: SUCCESSES, STRENGTHS, BOTTLE NECKS AND FUTURE CHALLENGES
Jukka Kola, Director EU & RDI Affairs, University of Turku (chair)
Yagut Allahverdiyeva, Professor, Molecular Plant Biology, University of Turku
Jarkko Paavola, Research Group Leader of Wireless Communications and Cybersecurity, Turku University of Applied Sciences
Inka Orko, Head of Business Development, Sustainable products and materials, VTT Technical Research Centre of Finland

15.30 Panel discussion
HOW CAN UNIVERSITIES WORK MORE EFFECTIVELY TOGETHER TO ACHIEVE THE GOALS OF THE EU?
Marion Jamard, Policy Officer, DG RTD, Common missions and partnerships service
Anders Öster, General Manager, Research Coordination & Funding, Wärtsilä
Samuele Ambrosetti, Innovation and Programming Manager, Bio-based Industries Consortium
Mirva Salokorpi, Research Manager, Technology and Seafaring, RDI, Novia University of Applied Sciences

16.20 Closing remarks
Reko Leino, Vice-rector, Åbo Akademi University

Register to the event at latest 1 December
https://konsta.utu.fi/Default.aspx?tabid=88&tap=20195

The event is organized by TRUEnet, Turku Region Universities EU Network.
https://www.utu.fi/en/research/truenet

More information from
https://www.utu.fi/en/news/news/join-us-in-a-european-partnership-event-in-brussels-9-december-2024

RSC-FLS Symposium 2024

10th December at 10:00-17:00
Hybrid event
in University of Helsinki Main Building, Fabianinkatu 33
Flyer

RSC-FLS Symposium 2024: Developments in Bio and Bio-based Materials

BIOCITY TURKU
BIOCITY TURKU
BIOCITY TURKU
ACADEMIC EXCELLENCE IN LIFE SCIENCE AND MEDICINE

biocityturku@bioscience.fi

The hybrid event features presentations and discussions focused on innovations in biomaterials and sustainable technologies, with contributions from Finnish universities and companies. With representation from the University of Turku, Åbo Akademi, Aalto, University of Helsinki, the University of Oulu and Edinburgh University, the topics include: Composite Biomaterials from teeth to bone, Nanofibrillated Cellulose in biopharmaceutical applications, Functional Bioinks using wood biopolymers and nanomaterials for 3D bioprinting, Synthetic Biomaterials for supporting biobased drugs and bioinks, Nanocelluloses for future sustainable electronics, Fungal Enzymes in lignin modification, Textile Fiber from paper-grade pulp, Regulatory Challenges and Mechanical metamaterials

More details about the event and final programme from the Flyer above and from
https://www.rsc.org/events/detail/80502/developments-in-bio-and-bio-based-materials

Participation is free, please register by December 6:
https://link.webropolsurveys.com/S/72F8A5C4C5F56DED
The symposium is arranged as hybrid event. Zoom link for virtual participation will be provided after registration.

Frontiers of Science

December 12th at 12:00
Onsite event
in Presidentti auditorium, BioCity
Autumn 2024 program

Prof. Torben Heick Jensen, Aarhus Universitet, Denmark
Nuclear sorting of RNA
Host: Matti Turtola (matti.turtola@utu.fi)

Coffee and sandwich at 11:45, first come first served!

Six PhD researchers and early-career postdocs are welcome to **have a lunch and discuss with Prof. Jensen** after the seminar. This is a great possibility to learn hosting skills in a friendly environment and create connections for future. Everyone is welcome to join, BioCity Turku will offer the lunch.

If you got interested, please send an email to biocityturku@bioscience.fi

Jensen laboratory studies the regulation and fidelity of gene expression which is of paramount importance for the maintenance and differentiation of all living organisms. The revelation that most of the human genome is transcriptionally active raises a new question how cells deal with all these transcripts, and the Jensen lab research is directed for understanding the fundamental

transcriptome control mechanisms. These studies touch many areas of RNA metabolism like RNA decay, long non-coding RNAs, snoRNAs, RNA modifications, transposable elements, molecular recognition and RNA-binding proteins. Jensen laboratory also employs and develops methodologies to capture the transcriptome dynamics that goes technically far beyond the standard RNA-Seq analyses.

Selected publications

Rouvière JO, Salerno-Kochan A, Lykke-Andersen S, Garland W, Dou Y, Rathore O, Molska EŠ, Wu G, Schmid M, Bugai A, Jakobsen L, Žumer K, Cramer P, Andersen JS, Conti E, Jensen TH. (2023) ARS2 instructs early transcription termination-coupled RNA decay by recruiting ZC3H4 to nascent transcripts. Mol Cell. 83, 2240-2257.e6.

Garland W, Müller I, Wu M, Schmid M, Imamura K, Rib L, Sandelin A, Helin K, Jensen TH. (2022) Chromatin modifier HUSH co-operates with RNA decay factor NEXT to restrict transposable element expression. Mol Cell. 82, 1691-1707.e8.

Lykke-Andersen S, Žumer K, Molska EŠ, Rouvière JO, Wu G, Demel C, Schwalb B, Schmid M, Cramer P, Jensen TH. (2021) Integrator is a genome-wide attenuator of non-productive transcription. Mol Cell. 81,514-529.e6.

Schmid M, Jensen TH. (2018) Controlling nuclear RNA levels. Nat Rev Genet. 19, 518-529.

General information

- You can download and save all the autumn 2024 FoS-seminars to your calendar from here: https://seafile.utu.fi/d/44a70f80ac1e46a9ad0a/
- Registration is not needed, participation list is circulated in the audience
- If you are a student and later wish to get a certificate of attendance from the Frontier of Science seminars, print out the seminar diary and after the seminar ask the BioCity coordinator to sign it https://seafile.utu.fi/d/44a70f80ac1e46a9ad0a/
- Please note that any audio or video recording of the seminars is strictly forbidden.
- Autumn 2024 image credits to Mia Åstrand: Details of the Bacteroides fragilis VgrG protein (PDB ID: 8GRA). Image created in the PyMOL Molecular Graphics System, Version 2.5 Schrödinger, LLC.

TREMENDO Seminar

12th December at 14:00
Onsite event
in Medisiina D 8066

BIOCITY TURKU
BIOCITY TURKU
BIOCITY TURKU
ACADEMIC EXCELLENCE IN LIFE SCIENCE AND MEDICINE

biocityturku@bioscience.fi

Professor Jukka Hakkola, University of Oulu
Role of nuclear receptor PXR in metabolic diseases

Chair: Petteri Rinne

Jukka Hakkola is a Professor of Pharmacology since 2009 and the Head of the Research Unit of Biomedicine since 2014. Hakkola has over 25 years of experience in the pharmacology and toxicology and hepatic cell and molecular biology. His research interests have focused on nuclear receptors and cytochrome P450 enzymes, during the recent years especially on hepatic energy metabolism with the aim to understand how hepatocytes sense nutritional and environmental exposure and adjust metabolic functions in response. Currently, his main research target is a xenobiotic-sensing nuclear receptor PXR. His team investigates the role PXR in regulation of glucose and lipid metabolism and in development of metabolic diseases such diabetes, non-alcoholic liver disease and the metabolic syndrome. He has also publications and ongoing work on the energy sensing factors, sirtuins and the coactivator PGC-1α, and on vitamin D metabolism. He is also a partner in an EU project, EDCMET, aiming to develop novel methods and models to assess the metabolic effects of endocrine disruptors and to identify relevant molecular initiating events linked to the adverse outcomes.

Johdatus bioturvallisuuteen

17.1.-28.2.2025
2 ECTS
etäopetuksena
Kurssimainos

Opintojakso (2 op) on tarjolla maksutta tutkinto-opiskelijoille (myös jooopintona) ja Turun yliopiston henkilökunnalle. Muut (esim. muiden yliopistojen henkilökunta) voivat osallistua kurssille avoimen yliopiston Sote-akatemian kautta.

Opetus perustuu eri organisaatioiden yhteistyöhön ja luennoitsijoina toimivat maamme parhaat asiantuntijat. Opiskelijat voivat esittää kysymyksiä perjantain etäluennon jälkeen, mutta kurssin voi myös suorittaa täysin tallenteiden ja Moodlen verkkotehtävien kautta.

Katso lisätietoja kurssimainoksesta. Opetus on suomenkielellä.

---

canSERV

Exciting news for cancer researchers! The third EU-funded canSERV call is open and is now accepting applications to support cancer research projects. The researchers can apply for free services (equipment, expertise, resources) at several European Research Infrastructures, including Euro-BioImaging ERIC.

BIOCITY TURKU
BIOCITY TURKU
BIOCITY TURKU
ACADEMIC EXCELLENCE IN LIFE SCIENCE AND MEDICINE

biocityturku@bioscience.fi

Euro-BioImaging is coordinating and providing open access to a portfolio of cutting-edge biological and biomedical imaging services. Within canSERV call, 28 Euro-BioImaging Nodes provide imaging services. Euro-BioImaging Finland offers open-access imaging technologies and expert services to academic and SME users through two multi-sited Nodes: Finnish Advanced Microscopy Node (FiAM) and Finnish Biomedical Imaging Node (FiBI):

Key dates and important highlights:

- The deadline for proposal submission is **November 28th 2024, 14:00 CEST**
- The experiments must be completed before the end of canSERV, i.e. end of August 2025
- All external users (even those from Finland) are eligible to apply for FiAM & FiBI services via the canSERV call. An external user is defined here as a user who is not affiliated with the same institute hosting the facility
- Access to services can be in person or remotely
- It is recommended that requests for Euro-BioImaging services are limited to a maximum funding volume of 20 000 Euro per project. Potential user projects with higher costs are not excluded, but in this case please contact the Euro-BioImaging Hub for discussion.
- Even though image analysis is not listed as a separate service, users can apply for it via FiAM - Multimodal Advanced Light Microscopy, even for standalone image analysis projects.

The full call text, including user guidelines and other useful information, and the canSERV catalog of services can be accessed via
https://www.canserv.eu/calls/open-call-for-transnational-service-provision/
https://www.eurobioimaging.eu/how-to-access/funding/canserv-second-open-call/

If you have any questions or need help with making the application, please do not hesitate to contact canservprojects@eurobioimaging.eu

In case you are aiming to apply for Euro-BioImaging Finnish Nodes services, please contact our Node Managers, who are more than happy to assist you:
Irina Belaia, FiAM Node Manager, irina.belaia@utu.fi
Tiina Saanijoki, FiBI Node Manager, tiina.saanijoki@utu.fi

SPARK Finland

SPARK Finland call is open 1.-30.11.2024!

The SPARK program provides mentors and advisors to help you develop your ideas into high-impact health innovations. You are more than welcome to attend the online **information session** for new applicants (and others interested in the program) on Monday 11.11. at 14-15. If you have any questions or need more additional information, please do not hesitate to contact Janina Stauffer (jejsta@utu.fi)

BIOCITY TURKU
BIOCITY TURKU
BIOCITY TURKU
ACADEMIC EXCELLENCE IN LIFE SCIENCE AND MEDICINE

biocityturku@bioscience.fi

More information from https://sparkfinland.fi/applying/

Postdoctoral researchers

Systemic approaches to improve cardiometabolic and brain health during lifespan (SYS-LIFE) is a pioneering Marie Skłodowska-Curie (MSCA) COFUND Fellowship Programme of the University of Turku 2024-2028. Its goals are breakthrough advances in human cardiometabolic and brain health, scientific renewal and boost for talented researchers´ versatile career development.

SYS-LIFE invites applications for up to eleven (11) fixed-term three-year SYS-LIFE postdoctoral researcher positions (job title Senior Researcher) starting from September 2025. SYS-LIFE Fellows are recruited internationally through a transparent selection process based on external peer-review. SYS-LIFE welcomes applications from projects based in any discipline within its three constituent faculties (Medicine, Science, and Technology) and independent units (Turku Bioscience Centre, Turku PET Centre). Successful applications will be selected on the basis of academic excellence.

SYS-LIFE researchers are given the freedom and support to develop a bespoke package of research and training to address their individual needs. This support includes a range of free mentoring and training options at University of Turku, as well as dedicated funds and a range of secondment options to enable postdocs to undertake research and training, including translational activities, at external academic and non-academic organisations.

For more information on the SYS-LIFE programme please see SYS-LIFE website.

Apply here.

Links to recruitment pages

University of Turku in Finnish and in English
Ådo Akademi University in Swedish and in English
FinBioNet

If you have events you would like to add to BioCity Announcement please contact biocityturku@bioscience.fi

Follow us in X @BioCityTurku

BIOCITY TURKU
BIOCITY TURKU
BIOCITY TURKU
ACADEMIC EXCELLENCE IN LIFE SCIENCE AND MEDICINE

biocityturku@bioscience.fi