BioCity Announcement 3/2023

Frontiers of Science spring 2023 program is published!

Take a look at the speakers:
https://biocityturku.fi/spring-2023-program/

This week
* MBC Bioinformatics Consultation
* InFLAMES Seminar, January 18th at 15:00

Next week
* Biosafety Risk Assessment Clinic, January 23rd
* Sustainable Solutions in Chemical Sciences, January 24th at 10:00
* Prospects of Infections and Immunity, January 25th at 11:15, Barkoff and Elenius
* Research Faculty meets LIFE!, January 25th at 12:00
* InFLAMES Corporate Corner, January 26th at 12:00
* IPP Seminar, January 27th, Bourgey and Lönnberg

In near future
* Frontiers of Science, February 2nd at 12:00, Köhrle
* Cancer Research Seminar, February 7th at 15:00
* Sustainability and Ethics of Medication and Food, February 8th at 14:15

Courses
* CSC Course Data Analysis with R
* Laboratory chemical safety

Open positions
* Doctoral researchers (4)

Links to recruitment pages

Turku BioNet Seminar Calendar
Kiinamyllyn viikkokalenteri
PGE Course Calendar

MBC Bioinformatics Consultation

January 17th at 10:00–12:00
Virtual event and on-site event
Medisiina-D, 5th floor meeting spaces (vetäytymistilat)

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

All discussions are private and you may wait for your turn in the zoom waiting room or in the lobby near the meeting room.

Zoom link: https://utu.zoom.us/j/63674596027

Full schedule for the spring: https://elolab.utu.fi/mbc-bioinformatics-consultation/

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

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InFLAMES Seminar

January 18th at 15:00
On-site event
Pha1, Pharmacity

Coffee and pulla before the seminar!

Monthly InFLAMES Flagship seminar – PROGRAMME

15.00 Brief update on topical issues, Sirpa Jalkanen
15.10 Introduction to PI's Research, Professor Ilkka Julkunen
15:25 Introduction to InFLAMES Clinical Research, InFLAMES Clinical Researcher Pauliina Hartiala
15:40 Introduction to InFLAMES Clinical Research, InFLAMES Clinical Researcher Kalle Mattila

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Biosafety Risk Assessment Clinic

January 23rd at 13:00
On-site event
Medisiina C, room MED230

The Biosafety Advisory Board is organizing a risk assessment clinic session to those who need help and advice in assessing the risks of working with genetically modified or otherwise biohazardous material and filling the risk assessment form required by Finnish legislations.

The aim of the clinic is to give room and time for discussions in biosafety matters and advise and help to process risk assessment forms. Researchers work with their own forms and Biosafety Advisory Board members give assistance where needed.

More information and registration via Konsta staff training calendar (https://intranet.utu.fi/index/developing-professional-skills-and-qualifications/Pages/Konsta-Staff-Training-Calendar.aspx) by 13.1.2023.

Sustainable Solutions in Chemical Sciences

January 24th at 10:00-17:00
Hybrid event
Argentum auditorium, Aurum / Zoom
Flyer

This one day seminar will address sustainability, featuring biofuels, energy storage, solar cells and carbon dioxide fixation. Participation is free but registration is mandatory (https://tinyurl.com/SusSolChem). A Zoom link for on-line participation is provided with registration. Participants are invited to present their work and compete for the best poster prize.

The speakers include:

Reko Leino (ÅA)	Opening Words
Timo Repo (UH)	Fixation of carbon dioxide for added-value materials
Liji Sobhana (MetGen)	METNIN™ Lignin refining technology for sustainable bio-based products'
Jan-Henrik Smått (ÅA)	Solar cells (surface and sol-gel chemistry)
Tapio Salmi (ÅA)	Small molecule, catalysis & biofuel

More information
https://www.rsc.org/events/detail/75392/sustainable-solutions
and detailed program for the event
https://biocityturku.fi/wp-content/uploads/2023/01/RSC_seminar_24012023_RMx.pdf

Register at latest January 19th
https://tinyurl.com/SusSolChem

The event has been organized by the Royal Society of Chemistry-Finland Local section and Åbo Akademi

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Prospects of Infections and Immunity

January 25th at 11:15
hybrid event
MedisiinaD, Mitoosi and Meioosi / Zoom
Spring 2023 program

Alex-Mikael Barkoff (He)
title tba

Henrik Elenius (Salmi)
title tba

Come on-site or join via Zoom: https://utu.zoom.us/j/69915597198

The purpose of the seminar series is to give dissertation researchers and young researchers the opportunity to present their research and its results. At the same time, researchers have the

opportunity to practice their presentation skills and receive feedback on their research. This series of seminars has a long tradition and dates back to the time of Mikro and has now been continued here on the premises of Medisiina D with a slightly wider coverage. The last day of the seminar series is reserved for the so-called Young Scientist progress report presentations, where slightly younger researchers can present for example their Master's thesis research.

You are mostly welcome to come follow the seminars and to support the prospects of our unit of Infections and Immunity! In case of any questions, please contact the organizers Natalie nattom@utu.fi or Heidi heidi.kunnasranta@utu.fi

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Research Faculty meets LIFE!

January 25th at 12:00
On-site event
Medisiina D, Säätiö lecture hall

LIFE is part of the University of Turku thematic research profile Health, Diagnostics and Drug Development, funded by the Academy of Finland. LIFE focuses on multigenerational health pathways for lifelong health. It has high scientific and public health importance and an innovative strategy to identify novel methods for early prediction, treatment and prevention of major non-communicable diseases that pose the highest public health burden globally.

Join us in January to meet the new tenure track professors and learn about the selected highlights of LIFE infrastructure!

Click here to register: https://link.webropolsurveys.com/S/8EB654DD2451D2FC

Programme
12.00 Lunch in Tiedonkolu (between Majakkahospital and Medisiina D)
12.45 Vice Dean **Markus Juonala** – Opening words
13.00 Associate Professor **Georgi Belogurov**
13.20 Senior Research Fellow **Otto Kauko**
13.40 Associate Professor in Internal Medicine **Tuomas Kiviniemi**
14.00 Associate Professor in Surgery **Peter Boström**
14.20 Coffee and networking break
14.45 Introduction to LIFE research infrastructures

- Single Cell Omics – Senior Research Fellow **Tapio Lönnberg**
- Biostatistics – Biostatistician **Terhi Kolari**
- Centre for Population Health – Professor **Olli Raitakari**/Associate Professor **Linnea Karlsson**

15.15 Keynote lecture – Professor **Jeroen Bax** Turku PET Centre and Leiden University Medical Center
16.00 Discussion and the event ends

Welcome!

This event is organised in collaboration with Faculty of Medicine, Faculty of Technology, Turku Bioscience Centre and Turku PET Centre.

InFLAMES Corporate Corner

January 26th at 12:00
On-site event
Visiting Centre Joki

Welcome to the InFLAMES Research Flagship's Corporate Corner titled Immunoprofiling and Immunodrug development.

In the event, you will hear the latest news of immunoprofiling and immunodrug development from company and research representatives. We have a great list of speakers from InFLAMES, Genomill, Auria Services, Aurlide, Orion, Misvik Biology, FICAN West, Valo Therapeutics and The Finnish Research Impact Foundation. In the end, the panel debate will discuss the promotion of industrial and academic cooperation.

The event starts with lunch at 11:45 and there is time for networking after the official programme at 16:00.

Please sign up by January 19th, 2023 at https://konsta.utu.fi/Default.aspx?tabid=88&tap=14340

Hosts of the event are Professor **Riitta Lahesmaa**, Turku Bioscience Centre, University of Turku and Professor of Practice **Timo Veromaa**, University of Turku

Take a look at the preliminary program

IPP Seminar

January 27th, time tba
Virtual event

Matthieu Bourgery, University of Turku
Small RNAs in skeletal tissue homeostasis and fracture healing

Tapio Lönnberg, University of Turku
Single-cell and spatially resolved sequencing

Chair: Kamila Pulawska

https://utu.zoom.us/j/62415869446

Frontiers of Science

February 2nd at 12:00
on-site event

Presidentti auditorium, BioCity
Spring 2023 program

Prof. Josef Köhrle, Institute of Experimental Endocrinology, Germany
Endocrine disruption of thyroid development and function
Host: Jorma Toppari (jortop@utu.fi)

Coffee and sandwich served at 11:45

Six students and early-career postdocs are welcome to **have a lunch in restaurant Mauno and discuss with Prof. Köhrle** after the seminar. This is a great possibility to learn hosting skills in friendly environment and create connections for future. Every student are welcome to join, in spite of which research group they belong to. BioCity Turku will offer the lunch.

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

Prof. Dr. Josef Köhrle is working at the Institute of Experimental Endocrinology and dedicated to basic and translational science in the field of Endocrinology, with a strong focus on thyroid function and regulation, metabolism and action of thyroid hormones and their metabolits as well as interference of endocrine disrupting compounds (EDC) on the thyroid hormone system.

Selected publications

Sane R, Wirth EK, Köhrle J. 2022. 3,5-T2-an Endogenous Thyroid Hormone Metabolite as Promising Lead Substance in Anti-Steatotic Drug Development? Metabolites. 12:582

Lietzow J, Golchert J, Pietzner M, Völker U, Poutanen M, Ohlsson C, Homuth G, Köhrle J. 2021. Comparative Analysis of the Effects of Long-Term 3,5-diiodothyronine Treatment on the Murine Hepatic Proteome and Transcriptome Under Conditions of Normal Diet and High-Fat Diet. Thyroid. 31:1135-1146

Köhrle J. 2021. Selenium in Endocrinology-Selenoprotein-Related Diseases, Population Studies, and Epidemiological Evidence. Endocrinology. 162:bqaa228

Hönes GS, Rakov H, Logan J, Liao XH, Werbenko E, Pollard AS, Præstholm SM, Siersbæk MS, Rijntjes E, Gassen J, Latteyer S, Engels K, Strucksberg KH, Kleinbongard P, Zwanziger D, Rozman J, Gailus-Durner V, Fuchs H, Hrabe de Angelis M, Klein-Hitpass L, Köhrle J, Armstrong DL, Grøntved L, Bassett JHD, Williams GR, Refetoff S, Führer D, Moeller LC. 2017. Noncanonical thyroid hormone signaling mediates cardiometabolic effects in vivo. Proc Natl Acad Sci U S A. 114:E11323-E11332

General information

- You can download all spring 2023 FoS-seminars in your calendar from here: https://seafile.utu.fi/d/4a0b831f23ef420786b0/
- Registration is not needed for the on-site seminars
- 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, please print out this seminar diary and after the seminar ask the BioCity coordinator to sign it
- Please note that any audio or video recording of the seminars is strictly forbidden.

Cancer Research Seminar

February 7th at 15:00
Hybdir event
Lauren 1 - Medisiina D / Zoom

Sanna Iivanainen, Oulu University Hospital & University of Oulu
The prognostic role of peripheral blood inflammatory markers in advanced cancer patients treated with immune checkpoint inhibitors.

Gabriela Martínez Chacón, Åbo Academi University
Targeting M1-ubiquitination in inflammation-induced cancer

Zoom Meeting ID: 692 0798 1823
Passcode: 646152

Cancer Research Seminars are jointly organized by Turku Cancer Research Society (TCRS), FICAN West and Cancer Research Unit/UTU

Sustainability and Ethics of Medication and Food

February 8th at 14:15
On-site event
UTU Main Building, Säästöpankki lecture hall

What is sustainability within health, diagnostics and drug development? What are the environmental impacts of medication and food? What are the ethical decisions in relation to the cost of medication?

Come and join the interesting discussion about these topics and more at the Thematics Talk Together seminar organized together by Health, diagnostics and drug development (HDDD) thematic collaboration and Health Campus Turku. Leading experts within sustainability, medication and food will share their insights and knowledge on these topics in a panel discussions giving the audience a possibility to join to the conversation as well. Coffee and tea is served before the event, and after the panels there is networking with snacks and drinks in the lobby.

Hanna Haveri, an expert on planetary health, will open the event with a keynote speech on biodiversity and health.

We promise that you will not leave this event empty handed. This crucially important topic is present in our everyday lives and work and we should all consider our own actions to promote sustainability.

Everyone interested in the topic of the seminar is welcome to join!

Program

14:15 OPENING WORDS
Jyrki Heino, HDDD chair of executive committee
Eriikka Siirala, Health Campus Turku executive director

14:20 KEY-NOTE TALK: Connections between biodiversity and human health - a planetary health perspective
Hanna Haveri, Orion Pharma; UCB Pharma

14:45 PANEL DISCUSSION: Environmental impacts of medication and food
Sanja Riikonen, Univeristy of Helsinki
Saska Tuomasjukka, Functional Foods Forum
Terhi Lehtinen, FIMEA

15:15 PANEL DISCUSSION: Ethical aspects on the price of medication
Susanne Uusitalo, University of Turku (moderator)
Heikki Lukkarinen, Turku University Hospital
Mika Kortelainen, University of Turku
Juha Laine, University of Turku

15:45 Closing of the event, after which networking and mingling with snacks and drinks in the lobby

Please register by Friday 3 February 2023
https://link.webropolsurveys.com/S/294B4D6F572C1321
If you would like to participate to the event after the registration is closed please send an email to Maija Lespinasse (miholm@utu.fi)

More details and program
https://www.utu.fi/en/en/research/thematic-collaborations-in-research/thematics-talk-together/health-diagnostics-and-drug-development

Thematics Talk Together -seminar series addresses topical and interesting themes from the different points of view of the six strategic research and education profiles of the University of Turku. The theme of the seminar series for the academic year 2022–2023 will be Sustainability.
https://www.utu.fi/en/research/thematic-collaborations-in-research/thematics-talk-together

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CSC Course Data Analysis with R

February 13th-14th at 09:00
On-site event, hybrid if required

R is a language that has become one of the most popular tools for manipulating, visualizing and analyzing data. While there are many R courses, learning these skills can involve a steep learning curve, especially for people with no experience in programming or data analysis. This course aims to help with this initial difficulty by equipping learners with essential skills in using R, including data wrangling and plotting.

The topics of this introductory course include data importing and exporting, handling real-life data sets and creating publication-ready plots with R. The topics will be covered using hands-on teaching and exercises.

No previous experience in R, programming or working in a command line environment is required. This is a two-day course from 9 am to 4 pm. The course will be organized primarily on-site at the CSC Training Facilities (Keilaranta 14, Espoo, Finland), but online participation can be arranged if needed by request.

More details and registration

Take a look at other CSC courses

Laboratory chemical safety

May 11th at 09:00
Virtual event in Zoom

Laboratory chemical safety –training in English by Arto Liljebladi. The topics from practical point of view: usage of personal protective equipment, fire safety, storage and handling of laboratory chemicals, gases and waste. The recommended practices are illustrated by real life laboratory accidents.

Registration: https://konsta.utu.fi/fi-fi/Staff-Training/Henkil%C3%B6st%C3%B6koulutus-Kalenteri

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Doctoral researchers

In collaboration with the Nordic EMBL Partnership in Molecular Medicine and Doctoral School in Health Sciences (DSHealth), FIMM announces the opening of the 2023 call for applications for Doctoral Researchers in Molecular Medicine and Life Sciences as part of the FIMM-EMBL/DSHealth International PhD recruitment and training program. In this interdisciplinary program, four outstanding doctoral researchers are recruited to the institute-level rotation program where they will work with two to three different research groups during a six-to-nine-month period prior to matching to a research group in which they remain for their doctoral studies. The program provides an exciting opportunity to explore and combine different research areas and working

environments as well as to learn a variety of science and technologies, making connections within and beyond the institute.

The deadline for applications is 5 February 2023, and application instructions are available within the detailed call announcement.

Questions are welcome to FIMM's Doctoral Training Coordinator, Bram Berntzen (bram.berntzen@helsinki.fi)

Links to recruitment pages

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