BioCity Turku Announcement 44/2024

44/2024

This week

* MBC Bioinformatics Consultation, 29th October at 13:00
* Frontiers of Science, 31st October at 12:00, Mano
* IPP Seminar, 1st November at 12:00, Kurppa and Talman

Next week

* Immunology Seminar, 5th November at 14:00, Ødum
* TBC PhD-Postdoc Board Lunch Talk, 7th November at 12:00, Pessa and Mikkola

In near future

* FICAN Webinar, 13th November at 15:00, Elo
* Frontiers of Science, 14th November at 12:00, Mahanthappa
* SSB Life Science Business & Innovation Seminar, 14th October at 14:00
* Turku Gut-Brain Axis Symposium, 20th November
* InFLAMES Corporate Corner, 21st November at 11:30
* Find Partners for HE Health Calls, 28th November at 12:00
* MSc Thesis Project Expo, 4th December at 09:00

Couses

* scRNA-seq Annotation Workshop, 25th and 28th November

Open calls

* canSERV
* TCRS PhD Thesis of the Year

Open positions

* Senior Researcher
* Postdoctoral or Doctoral Researcher
* Project engineer or research technician
* Doctoral Researcher

Links to recruitment pages

Turku BioNet Seminar Calendar
Kiinamyllyn viikkokalenteri
PGE Course Calendar

MBC Bioinformatics Consultation

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biocityturku@bioscience.fi

29th October at 13-14
On-site event
in BioCity 7th floor small seminar room

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!

Frontiers of Science

October 31st at 12:00
On-site event
in Presidentti auditorium, BioCity
Autumn 2024 program

Prof. João F. Mano, University of Aveiro, Portugal
Compartmentalizing cells in 3D microenvironments to engineer human tissues
Host: Chunlin Xu (chunlin.xu@abo.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. Mano** after the seminar. This is a great possibility to learn hosting skills in 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

João F. Mano is a vice-director at CICECO – Aveiro Institute of Materials, where he is directing the COMPASS Research Group, founded in April 2016. His research focuses on the application of advanced biomaterials and cells to advance multidisciplinary concepts in the field of regenerative and personalized medicine. Specifically, he utilizes biomimetic and nano/micro-technology approaches to develop polymer-based biomaterials and surfaces for the creation of biomedical

devices with enhanced structural and multi-functional properties. He also engineers microenvironments to regulate cell behavior and organization, with the goal of clinically applying these technologies in advanced therapies and drug screening, or in the bioengineering of disease models.

Selected publications

R.C. Gonçalves, S. Vilabril, C.M.S.S. Neves, M.G. Freire, J.A.P. Coutinho, M.B. Oliveira, J.F. Mano - All-aqueous freeform fabrication of perfusable self-standing soft compartments. Advanced Materials, 34(31), 2200352 (2022)

M. Zargarzadeh, A.S. Silva, C. Nunes, M.A. Coimbra, C.A. Custódio, J.F. Mano - Self-glucose feeding hydrogels by enzyme empowered degradation for 3D cell culture. Materials Horizons, 9(2), 694-707 (2022)

M.M. Maciel, T.R. Correia, V.M. Gaspar, J.M.M. Rodrigues, I.S. Choi, J.F. Mano - Partial coated stem cells with bioinspired silica as new generation of cellular hybrid materials. Advanced Functional Materials, 31(29), 2009619 (2021)

A.S. Silva, L.F. Santos, M.C. Mendes, J.F. Mano - Multi-layer pre-vascularized magnetic cell sheets for bone regeneration. Biomaterials 231, 1196648 (2020)

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 FoS 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.

IPP Seminar

1st November at 12:00
Onsite event
in Aistikattila, Flavoria, Medisiina C124
Autumn 2024 program

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Kari Kurppa
Eliminating the Seeds of Relapse – Targeting Residual Disease Following Targeted Therapy

Prof. Virpi Talman
Mechanistic Insight into Cardiac Regeneration and Remodelling: Better Cardiovascular Drugs in the Future?

Chair: Noora Kulla

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.

Immunology Seminar

5th November at 14:00
Online event
in Zoom

Prof. Niels Ødum, LEO Foundation Skin Immunology Research Center, University of Copenhagen
How bacteria may fuel cutaneous T cell lymphoma
Host: Riitta Lahesmaa (rilahes@utu.fi)

Link to the online seminar: https://utu.zoom.us/j/68943593707

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.

Niels Ødum is full professor in immunology at the Health Science Faculty, University of Copenhagen since 2012. He did his PhD in the University of Copenhagen and after visiting research fellow periods in Fred Hutchinson Cancer Research, Seattle, USA and Kyushu University in Fukuoka, Japan, he became associate professor and after that full professor at the department of Biology in the University of Copenhagen. He was appointed as the Executive Director at the LEO Foundation Skin Immunology Research Center in University of Copenhagen this year.

Niels Ødum together with his research group has made scientific discoveries including identifying new HLA genes, their function and importance in transplantation and autoimmunity. He has made discoveries unravelling Interleukin-2 signal cascades and pathological signalling in T cell lymphoma and made discoveries of oncogenes and their targets and functions. He has also carried out research

in diagnostic miRNA profiling of inflammatory skin disorders, identification of novel therapeutic targets and the role of bacteria in driving T cell lymphoma and drug resistance.

Niels Ødum is author of 350 papers in peer-reviewed journals and patents/patent applications within the fields of immunology, immune pathology, signal transduction and gene regulation with more than 12.800 citations and H-index 62. He is also reviewer for multiple international journals and organizer/co-organizer of several international conferences.

Selected publications

Vadivel CK, Willerslev-Olsen A, Namini MRJ, Zeng Z, Yan L, Danielsen M, Gluud M, Pallesen EMH, Wojewoda K, Osmancevic A, Hedebo S, Chang YT, Lindahl LM, Koralov SB, Geskin LJ, Bates SE, Iversen L, Litman T, Bech R, Wobser M, Guenova E, Kamstrup MR, Ødum N, Buus TB. Staphylococcus aureus induces drug resistance in cancer T cells in Sézary syndrome. Blood. 2024 Apr 11;143(15):1496-1512. doi: 10.1182/blood.2023021671. PMID: 38170178; PMCID: PMC11033614.

Zeng Z, Vadivel CK, Gluud M, Namini MRJ, Yan L, Ahmad S, Hansen MB, Coquet J, Mustelin T, Koralov SB, Bonefeld CM, Woetmann A, Geisler C, Guenova E, Kamstrup MR, Litman T, Gjerdrum LR, Buus TB, Ødum N. Keratinocytes Present Staphylococcus aureus Enterotoxins and Promote Malignant and Nonmalignant T Cell Proliferation in Cutaneous T-Cell Lymphoma. J Invest Dermatol. 2024 May 16:S0022-202X(24)00377-4. doi: 10.1016/j.jid.2024.04.018. Epub ahead of print. PMID: 38762064.

Pallesen EMH, Gluud M, Vadivel CK, Buus TB, de Rooij B, Zeng Z, Ahmad S, Willerslev-Olsen A, Röhrig C, Kamstrup MR, Bay L, Lindahl L, Krejsgaard T, Geisler C, Bonefeld CM, Iversen L, Woetmann A, Koralov SB, Bjarnsholt T, Frieling J, Schmelcher M, Ødum N. Endolysin Inhibits Skin Colonization by Patient-Derived Staphylococcus Aureus and Malignant T-Cell Activation in Cutaneous T-Cell Lymphoma. J Invest Dermatol. 2023 Sep;143(9):1757-1768.e3. doi: 10.1016/j.jid.2023.01.039. Epub 2023 Mar 7. PMID: 36889662.

TBC PhD-Postdoc Board Lunch Talk

7th November at 12:00-13:00
Onsite event
in Auditorium Biology, BioCity 2nd floor

Jenny Pessa, from Sistonen lab
Dynamic regulation of HSF2 drives breast cancer progression.

Lea Mikkola, from Lönnberg lab
Spatial omics approaches for resolving stromal and neuro-immune interactions in osteoarthritis.

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It is time to start again our Turku Bioscience's 'PhD-Postdoc Board' Lunch Talks and as usual, pizza will be served for lunch! Please register at latest 31st October:
https://link.webropolsurveys.com/S/C2D1BC9ECE7754C3

Let us know if you are interested in becoming one of our future Lunch Talk speakers, to discuss either your research, your favorite techniques, an overview of your research field, or anything you think might be interesting to share!

More information about the event from pdboard@utu.fi and from https://bioscience.fi/post-doc-board/

FICAN Webinar

13th November at 15:00-16:00
Online event
in Teams
Flyer

Prof. Laura Elo, Medical Bioinformatics Centre, Turku Bioscience Centre, University of Turku & Åbo Akademi
Computational tools for multi-level profiling of individual cancer risks

Get to know the speaker: https://elolab.utu.fi/

This time the seminar is organized by FICAN West. The seminar will be held online (Microsoft Teams), find the link below. The event is open to everyone interested in cancer research and these nationwide webinars aim to:

- Share information about high-quality cancer research and its results conducted in various regions.
- Provide insights into cancer care and diagnostics, with a focus on new approaches and techniques
- Foster collaboration and discussion for the benefit of cancer patients throughout Finland

Click here to join the meeting
Meeting ID: 336 344 990 841
Passcode: pHdaHz

Event details and more information also from here, click!

Frontiers of Science

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November 14th at 12:00
Onsite event
in Presidentti auditorium, BioCity
Autumn 2024 program

Prof. Mahesh Mahanthappa, University of Minnesota, USA
Scale-invariant principles of molecular self-assembly across lengthscales
Host: Reko Leino (reko.leino@abo.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. Mahanthappa** 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

Mahanthappa research group focuses on the development of block copolymer and liquid crystal materials. Their research approach relies on a powerful combination of chemical synthesis, morphological characterization, and physical properties assessments to develop useful materials for a variety of applications. Situated at the interface of chemistry, chemical engineering, and materials science, their interdisciplinary research program engages students and postdocs with diverse backgrounds in highly collaborative research. Mahanthappa groups' research mission is to scalably produce useful polymer and liquid crystals with precise control over molecular architecture and functional group placement, in order to gain molecular–level insights into their structure–property relationships for potentially innovative applications.

Selected publications

AJ Mueller, AP Lindsay, RM Lewis III, Q Zhang, S Narayanan, TP Lodge, Mahesh K Mahanthappa, Frank S Bates. 2024. Particle Dynamics in a Diblock-Copolymer-Based Dodecagonal Quasicrystal and Its Periodic Approximant by X-Ray Photon Correlation Spectroscopy. Physical Review Letters 132 (15), 158101

Lindsay AP, Jayaraman A, Peterson AJ, Mueller AJ, Weigand S, Almdal K, Mahanthappa MK, Lodge TP, Bates FS. 2021. Reevaluation of Poly(ethylene-alt-propylene)-block-Polydimethylsiloxane Phase Behavior Uncovers Topological Close-Packing and Epitaxial Quasicrystal Growth. ACS nano 15 (6), 9453-9468

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Xu H, Xiao H, Ellison CJ, Mahanthappa MK. 2021. Flexible Nanoporous Materials by Matrix Removal from Cylinder-Forming Diblock Copolymers. Nano Lett. 2021 Sep 22;21(18):7587-7594.

A Jayaraman, CM Baez-Cotto, TJ Mann, MK Mahanthappa. 2021. Dodecagonal quasicrystals of oil-swollen ionic surfactant micelles. Proceedings of the National Academy of Sciences 118 (31), e2101598118

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SSB Life Science Business & Innovation Seminar

14th October at 14:00
Hybrid event
in Tampere University, room F114

We are happy to tell that the Finnish society for Cell biology will arrange the SSB Life Science Business & Innovation Seminar, held for the very first time in Tampere! Join us on November 14th, 2024 at Tampere University or via Zoom for an afternoon of learning about entrepreneurship in life sciences, networking, and great company.

What to expect?

- Learn about entrepreneurship in life science sector
- Meet local and near-by companies
- Enjoy snacks and drinks during a relaxed networking session

The seminar starts at 14:00, and for those unable to attend in person, the event will be streamed via Zoom! Registration is required for both in-person and virtual attendance. Coffee will be served

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during the seminar! Also, all attendees physically present who also join the society will have a chance to participate in an exciting raffle!

Speakers include

- Helena Lähdekorpi, Tampere University
- Prof. Jari Hyttinen, BioMediTech
- Jarno Tanskanen, OrganAnalytics
- Tomi Saviluoto, UPM Biomedicals
- Matti Jalasvuori, PrecisionPhage Ltd
- Jenni Karttunen, Tampere Imaging Facility
- Elina Mäntylä, Euro-BioImaging
- Thomas Liuksiala, Genevia Technologies
- Laura Koivusalo, StemSight Oy
- Varpu Marjomäki, Natural Antivirals

Whether you're a student, researcher, or working professional, this event is for you! Register now and secure your spot: https://link.webropolsurveys.com/EP/6D54C63E274886A8

Turku Gut-Brain Axis Symposium

20th November
On-site event
in Presidentti Auditorium, BioCity

The gut-brain axis depicts the bi-directional communications between gut and the central nervous system, which is implicated in brain-related pathophysiology. Studying the microbiota-gut-brain axis is a multidisciplinary approach requiring input from various research fields including, but not limited to psychiatry, neurology, gastroenterology, microbiology, and bioinformatics.

As a field, the microbiota research is rapidly advancing as both the 'omics techniques, and diagnostics as well as bioinformatic tools continue to develop and help researchers to make better inferences. The Gut-Brain Axis Seminar is a one-day translational research seminar on microbiota-gut-brain axis to bring together local as well as international renowned researchers to present and discuss challenges and advancements in the field.

The key-note speakers are
Rochellys Diaz-Heijtz from Karolinska Institute
(https://ki.se/en/research/research-areas-centres-and-networks/research-groups/genetic-and-molecular-basis-of-nervous-system-disorders-rochellys-diaz-heijtz-group)
and
Thomaz F. S. Bastiaanssen from University of Amsterdam
(https://thomazbastiaanssen.github.io)

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Register at latest 10.11.2024. The event is free of charge!
https://konsta.utu.fi/Default.aspx?tabid=88&tap=19455

We welcome abstracts from short talks and posters. Please submit a free-format abstract (max. 1 A4 page), add your name to the abstract name and submit it as PDF. Deadline for abstracts is 20.10.2024.

Preliminary Program

08.45 – 09.30 *Arrivals with Coffee, Posters & Exhibition*
09.30 – 10.15 Thomaz Bastiaanssen
10.15 – 10.45 Talk from the abstracts
10.45 – 11.15 Talk from the abstracts
11.15 – 11.30 Short Talk from the abstracts
11.30 – 11.45 Sponsor's greetings
11.45 – 13.15 *Lunch & Posters*
13.15 – 13.50 Rochellys Diaz-Heijtz
13.50 – 14.10 Talk from the abstracts
14.10 – 14.30 Talk from the abstracts
14.30 – 14.50 Talk from the abstracts
14.50 – 15.30 *Coffee and Poster Pitching (selected 5 abstracts, 3 min/poster)*
15.30 – 16.15 Panel Discussion: Clinical utility of Gut-Brain axis and the concept of Psychobiotics

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InFLAMES Corporate Corner

21st November at 11:30-16:00
On-site event
in Cave auditorium, Joki Innovation Centre

InFLAMES Corporate Corner *From Data to Innovation* will be held on Thursday, 21 November 2024. The event will start with lunch at 11:30, followed by the official program until 16:00 and culminating in a networking after-party. More details on the programme are coming soon.

The confirmed speakers are:
Chief Operating Officer Kaisa Helminen, Aiforia
Expert Clinical Data Scientist Jussi Leinonen, Bayer
Director Digital Medicine Sammeli Liikkanen, Orion Corporation
Director Findata Johanna Seppänen, THL
Special Envoy for Health and Wellbeing Päivi Sillanaukee, STM
Customer Solutions Manager Charlotte Granberg-Haakana, CSC

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Research Director Laura Elo, University of Turku
Associate Professor Pekka Ruusuvuori, University of Turku

Register to the event by November 18 https://konsta.utu.fi/Default.aspx?tabid=88&tap=19858

More information about the event from https://inflames.utu.fi/events/inflames-corporate-corner-from-data-to-innovation/

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

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.

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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.

Register your research group to the event at latest 18 November 2024:
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

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scRNA-seq Annotation Workshop

25th and 28th November at 10:00-16:00

The scRNA-seq annotation workshop is for researchers and data analysts working on single-cell RNA sequencing (scRNA-seq) data annotations. Aim of the workshop is to collaboratively agree on naming conventions and to identify markers for cell types and cell states in relevant scRNA-seq dataset(s). Additionally, the optimal annotation granularity for different study cases will be discussed in the workshop.

Workshop goals

1. Naming the relevant cell types and cell states: Establishing clear and consistent names for different cell types, cell states, and cell hierarchies in the biological systems of participant's interest.
2. Finding Markers: Utilizing available resources to identify markers for the agreed-upon cell types and states.
3. Curating Markers: Studying and curating markers in real scRNA-seq datasets to identify reliable markers for specific cell types and cell states.

Workshop includes

1. Lectures
2. Discussions
3. Hands-on work on nomenclature, marker collection and marker curation

For practical reasons, attendance is limited to 20 participants. The workshop focuses especially to human immune cells and at most to one other biological system. We especially encourage **people working with human or mouse immune cells** to attend. Possibility to use one's own dataset can be discussed with the organisers.

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The event is free of charge and you can register to the course here: https://link.webropolsurveys.com/EP/5BB80B9AABC121BD

More information about the event from Iivari Kleino (iivari.kleino@utu.fi)

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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.

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:

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Irina Belaia, FiAM Node Manager, irina.belaia@utu.fi
Tiina Saanijoki, FiBI Node Manager, tiina.saanijoki@utu.fi

TCRS PhD Thesis of the Year

The Turku Cancer Research Society invites all students recently defended a PhD thesis on the field of cancer to apply for the PhD thesis of the Year Award 2024. The purpose of the award is to highlight talented early career researchers and their research conducted in Turku. The award (500 €, funded by Jalkanen Foundation) will be presented in the Society´s Christmas Seminar event on December 3, 2024 at Alhopuro lecture hall (Medisiina C). The recipient of the award will be invited to give a short talk in the seminar.

The application deadline is November 1, 2024 and the applicant need to be a member of the TCRS. The winner will be contacted on week 47. To find more information about the application, requirements and selection, please check our society web page http://cancerresearch.utu.fi/?page_id=487

You may also contact TCRS chair, Pilvi Riihilä (pimati@utu.fi), or secretary, Gabriela Martínez (mgmcha@utu.fi) for any questions.

Senior Researcher

The Turku Medical Bioinformatics Centre (MBC) at the University of Turku is part of both the national Biocenter Finland research infrastructure network and the European-wide ELIXIR infrastructure. We conduct internationally high-level research in the fields of bioinformatics and computational medicine. We develop computational data analysis tools as well as statistical and machine learning methods for interpreting large molecular and clinical datasets in medical research, in close collaboration with leading medical research groups and biobanks. As a core facility of the Turku Bioscience Centre, we also support high-quality research by providing bioinformatics support for analyzing data generated by modern biotechnologies to academic research units and healthcare organizations.

MBC has now an open position for a Senior Researcher. We are looking for an expert in data analytics and bioinformatics to join our team and take responsibility for the core facility's basic operations. Key tasks include providing expert support, conducting data analyses, and developing the core facility's operations in collaboration with the center's staff and stakeholders.

Read more about the position and apply here **by October 31st**:
https://ats.talentadore.com/apply/erikoistutkija-laaketieteelliseen-bioinformatiikan-keskukseen-turussa/ZQXqNl?lang=en&UTUID=20505

Postdoctoral or Doctoral Researcher

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Turku Medical Bioinformatics Centre https://elolab.utu.fi at Turku Bioscience Centre is looking for a postdoctoral or doctoral researcher to join our projects focusing on identifying molecular factors and their regulatory networks involved in the development of human diseases. Using large-scale omics datasets and advanced computational methods, our goal is to gain deeper understanding of how the human immune system functions and how this understanding could be utilized to develop new treatments for immune-mediated diseases and cancer. The research will utilize statistical and machine learning methods, as well as bioinformatics tools, and will be carried out in close collaboration with biomedical research teams.

The tasks include both the analysis of omics data (e.g. phosphoproteomics) and the testing and further development of data analysis methods. The focus can be tailored according to the expertise and interests of the applicant.

Read more about the position and apply here **by October 31st**:
https://ats.talentadore.com/apply/tutkijatohtori-tai-vaitoskirjatutkija-laaketieteelliseen-bioinformatiikan-keskukseen-turussa/ZypEve?lang=en&UTUID=20507

Project engineer or research technician

Finnish Functional Genomics Centre (FFGC) is looking for a project engineer, research technician or similar to work in our core unit that provides NGS sequencing services to customers. FFGC is located in Turku Bioscience Centre and the main services that we provide are NGS based methods for genomic, transcriptomic, metagenomic and epigenomic analyses.

Main tasks for the project engineer will include sample processing for sequencing, instrument maintenance and use and customer communication.

Read more about the position (in Finnish) and apply here by **November 4th** :
https://ats.talentadore.com/apply/projekti-insinoori-tutkimusteknikko-tai-vastaava-funktionaalisen-genomiikan-keskus-turun-yliopistossa/8pWlBb?UTUID=20559

Doctoral Researcher

Tero Aittokallio's group in Oslo has an open vacancy for a 3-year fully-funded PhD researcher position for developing multi-modal AI to define macrophage and immune targets for improved anticancer immunotherapy. The position is offered within the pan-European doctoral training network, Mac4Me, which will train the next generation researchers in the emerging field of tumour cell-immune host interactions to identify new immunotherapy targets. The network is funded by the European Union's Horizon Europe MSCA Doctoral Network programme. Mac4Me project will use animal-free organ-on-chip systems to recapitulate early liver, bone and brain metastasis during cancer development across the lifespan, such as neuroblastoma, breast and prostate cancer. The multi-modal data from these preclinical models will be integrated with real-world clinical data using AI approaches to identify new immune targets.

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More information about the Mac4Me EU MSCA DN network (van-weerden-lab.com)

More information about the position and application link (apply by **November 11, 2024**)

Links to recruitment pages

University of Turku in Finnish and in English
Åbo 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

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