

The University of Helsinki is a leading Nordic university with a strong life science research. An international academic community with a critical outlook and a creative attitude is aiming to build a better future together.

The Center of Excellence in Stem Cell Metabolism (MetaStem) is a new Academy of Finland funded research unit in the University of Helsinki. The unit addresses the interplay between self-renewal, differentiation and metabolism, with an interdisciplinary approach spanning from studies on fruit fly glucose metabolism to translational models of diabetes. Induced pluripotent stem cells, organoids, fly and mouse models, genome editing, single-cell transcriptomics etc. will be used to investigate the role of mitochondrial protein homeostasis and segregation, nutrient sensing, and metabolic switches in stem cell fate decisions. The participating four research groups, with for example three ERC grants, operate on the two Life Science campuses of the University of Helsinki, in the Faculties of Medicine, and Biological and Environmental Sciences, and in the Helsinki Institute of Life Science (HiLIFE, <https://www.helsinki.fi/en/helsinki-institute-of-life-science>).

The Center of Excellence in Stem Cell Metabolism, MetaStem, is currently seeking
POST-DOCTORAL RESEARCHERS

The post-doctoral researchers will work in one of the research groups listed below, and the applicant can indicate the preferred group(s) in the application.

Katajisto group (<http://www.katajisto-lab.com/>) studies stem cells and aging, and focuses on the role of asymmetric cell division and niche interactions of stem cells to understand the mechanisms underlying the reduced renewal and regeneration of aged tissues. Multiple positions are open for motivated Postdoctoral Researchers on projects probing the links between asymmetric organelle segregation, nutrient sensing, cellular metabolism and cell fate. Experience in stem cell biology, cellular metabolism, or in single cell transcriptomic- and epigenetic analyses is considered a plus.

Hietakangas group (<http://www.biocenter.helsinki.fi/bi/hietakangas/>) works on nutrient sensing, and will use the Drosophila and mammalian intestinal stem cell systems together with functional/single cell genomics and metabolic reporters in order to reveal fundamental mechanisms underlying the stem cell's responses to nutrient content. Postdoctoral positions are available for candidates with interest in stem cell biology, nutrient sensing and functional genomics. Applications are particularly welcomed from candidates with previous experience in Drosophila research and/or functional genomics.

Otonkoski group (<https://www.helsinki.fi/en/researchgroups/pluripotency-and-disease-modeling>) focuses on human pluripotent stem cells and genome editing, and the use of these approaches to study pancreatic beta-cell differentiation and dysfunction. At least one position is open for a Postdoctoral Researcher interested in

the metabolic maturation of beta cells. Previous experience with pluripotent stem cells, beta-cell biology and CRISPR/Cas9 technology is considered a plus.

Tyynismaa group (www.helsinki.fi/en/researchgroups/medical-neurogenetics-group) focuses on the metabolic outcomes of disturbed mitochondrial proteostasis, and uses patient-specific iPSC models to study mitochondrial-dysfunction mediated metabolic effects on stemness and differentiation. The group has positions open for Post-doctoral Researchers with interests in metabolic regulation, mitochondrial metabolism, protein homeostasis, iPSC-based modeling, genome editing, and/or single-cell transcriptomics.

For more details on the projects, contact:

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All Post-doctoral Researchers are expected to have a Ph.D degree (or about to graduate) in a relevant field. In addition, the candidate should be fluent in English, have good interpersonal and communication skills, and be able to work independently as well as part of a team.

The salary will be commensurate with qualifications and experience based on demand level 5-6 of the University salary system. The full-time position can start in January 2018 or upon mutual agreement.

Application should be written in English and include a 1 page cover letter and 3-4 pages CV, a list of publications, contact information for three referees (no need to send copies of transcripts or any other documents).

Applications should be submitted as a single pdf file through the University of Helsinki electronic recruitment system by clicking on the Apply link. Internal applicants (i.e., current employees of the University of Helsinki) please submit your applications through the SAP HR portal.

Closing date for applications is 31st December 2017, with possible recruitment decisions even earlier pending suitable applications.

Technical support with the recruitment system: [recruitment\(at\)helsinki.fi](mailto:recruitment(at)helsinki.fi)

Apply at latest 31.12.2017

Apply link

https://rekry.helsinki.fi/sap/bc/webdynpro/sap/hrrcf_a_posting_apply?param=cG9zdF9pbmN0X2d1aWQ9MTA2MDRCOTkyN0M4MUVFN0lyOEMzRDkwNTkxOUI1RDkmY2FuZF90eXBIPUVVVA%3d%3d&sap-client=300&bspclient=300&bsp language=EN&sap-

[language=EN¶ms=cG9zdF9pbnN0X2d1aWQ9MTA2MDRCOTkyN0M4MUVFN0IyOEMzRDkwNTkxOUI1RDk%3d](#)

Due date

Sunday, December 31, 2017