



# Postdoctoral Research Fellow in stem cell derived organoid development for “Organ on a Chip” systems

## Job description

Applications are invited for a 3 year position as a Postdoctoral Research Fellow at the newly established Centre of Excellence [“Hybrid Technology Hub”](#) at the University of Oslo, Norway. The overall objective of the Hybrid Technology Hub is to develop a “organ on a chip” platform that reproduces core energy metabolism within energy regulating organs of the human body and which will allow real time data acquisition upon exposure to therapeutic tools.

The Centre of Excellence [“Hybrid Technology Hub”](#) is located at the Institute of Basic Medical Sciences, at the University of Oslo, with partners in UK at the University of Glasgow (Prof. Nikolaj Gadegaard) and Imperial College, London (Prof. Molly Stevens).

## More about the position

The Centre focuses on developing 3D organoid models for liver, islet and fat that are coupled together for metabolic measurements and drug testing. This project’s core aim is to develop novel approaches to derive functional organoids from healthy and diseased subjects, and to integrate them into a microfluidic system. The candidate will be central in developing stem cell-derived organoids of endodermal lineages that can be integrated in a microfluidic device or grown “on chip”. In the second half of the project, the candidate will work towards adapting protocols for automation.

The postdoctoral researcher will be part of a large collaborative interdisciplinary team that consists of basic scientists, clinicians, bioinformaticians, physicists and chemists. The successful candidate will work towards high-impact publications; have an eagerness for career development and willingness to spend some research time in the partnering laboratories.

## Qualification requirements

The following qualifications will count in the assessment of the applicants:

- Applicants must hold a degree equivalent to a European or US doctoral degree with strong research background in molecular biology, advanced cell biology and imaging.
- Expertise in advanced cell culture and molecular biology is required.
- Expertise in handling and differentiation of human induced pluripotent stem (iPS) cells will be an advantage.
- Expertise in genome engineering using CRISPR will be an advantage.
- Documented track record of research, evidenced by successful publishing in scientific journals.
- Excellent written, oral and presentation skills (English).

## Personal skills

- Proven ability to work and collaborate within a multidisciplinary environment
- Scientific creativity and ability to drive own research ideas to a successful conclusion

## We offer

- Salary NOK 515 200 - 597 400 per year depending on qualifications in position as Postdoctoral Research Fellow (position code 1352)
- A friendly and stimulating working environment
- Attractive welfare benefits and a generous pension agreement, in addition to Oslo’s family-friendly environment with its rich opportunities for cultural and outdoor activities
- A [personalized career development program](#)

## How to apply

The application must include

- Cover letter (statement of motivation and research interests)
- CV (summarizing education, positions and academic work)
- List of publications and academic work
- Copies of educational certificates in English or a Scandinavian language
- At least two references (name, relation to candidate, e-mail and phone number)
- Optional: letters of recommendation

The application, with attachments, must be delivered in our electronic recruiting system. Foreign applicants are advised to attach an explanation of their University's grading system. Please note that all documents should be in English (or a Scandinavian language). In assessing the applications, special emphasis will be placed on the documented, academic qualifications, as well as the candidates' motivation and personal suitability.

## Formal regulations

Please see the [guidelines and regulations](#) for appointments to Postdoctoral fellowships at the University of Oslo.

Please note that no one can be appointed as a postdoctoral fellow for more than one specified period at the same institution in Norway. If you already have been employed as a postdoctoral fellow at the University of Oslo, you are not eligible for the above position. No one can be appointed twice as a Postdoctoral fellow financed/with funds from The Research Council of Norway (NFR).

According to the Norwegian Freedom and Information Act (Offentleglova) information about the applicant may be included in the public applicant list, also in cases where the applicant has requested non-disclosure.

The University of Oslo has an [agreement](#) for all employees, aiming to secure rights to research results etc.

The University of Oslo aims to achieve a balanced gender composition in the workforce and to recruit people with ethnic minority backgrounds.

## Contact information

Centre Director and Professor Stefan Krauss, [stefan.krauss@medisin.uio.no](mailto:stefan.krauss@medisin.uio.no)

Administrative coordinator Haakon Berg Johnsen, [h.b.johnsen@medisin.uio.no](mailto:h.b.johnsen@medisin.uio.no)

## About the University of Oslo

**The University of Oslo** is Norway's oldest and highest ranked educational and research institution, with 28 000 students and 7000 employees. With its broad range of academic disciplines and internationally recognised research communities, UiO is an important contributor to society.

**The Institute of Basic Medical Sciences** overall objective is to promote basic medical knowledge in order to understand normal processes, provide insight into mechanisms that cause illness, and promote good health. The Institute is responsible for teaching in basic medical sciences for the programmes of professional study in medicine and the Master's programme in clinical nutrition. The Institute has more than 300 employees and is located in Domus Medica.

Jobbnorge-ID: 168436, Søknadsfrist: Søknadsfristen er gått ut