



# PhD Research Fellowship in Immunology

## PhD Research Fellowship in Immunology with Focus on the Complement System in Ischemia/Reperfusion Injury in Oslo, Norway

A three-year PhD Research Fellowship position (SKO 1017) is available at the Department of Immunology at the Norwegian Complement Research Group lead by Professor Tom Eirik Mollnes, MD and the project owner Søren E. Pischke, MD PhD (certified specialist in Anaesthesiology and Critical Care) at the Department of Immunology, the University of Oslo, Institute of Clinical Medicine.

The fellowship period is 3 years with the overall aim of successful completion of a PhD degree. The position is funded by the Norwegian Research Council under grant nr. 274352. Preferred starting date is September 1, 2018.

### Job and project description - what do we work on?

The successful candidate will work on a project studying interaction of danger associated molecular patterns (DAMPs) released of damaged cells in the course of ischemia/reperfusion injury and the innate immune system. Specifically, the aim of the project is to understand the mechanisms by which non-foreign proteins and nucleic acids control the activation of the complement system and which co-factors are necessary to fully activate toll-like receptors. The work of the candidate will involve in vitro cell culture and full-blood models of inflammation and hypoxia/re-oxygenation models, as well as co-work on pig animal models of cardiac and kidney ischemia/reperfusion injury. Thus, the translational aspect to human disease pathology and treatment with clinically relevant therapeutics will be in focus in this project.

### The Research Group - Who are we?

[The Norwegian Complement Research group](#) focuses on the innate immune system with the complement and the toll-like receptor system in infectious and sterile inflammation as the main research areas.

The research group consists of a 12-member group in Oslo co-working with a 13-member group in Bodø, Norway in a strong academic environment including researchers with background in immunology, biology, transplantation, cardiology, anaesthesiology and critical care medicine. The group has extensive collaboration with other labs and clinical groups at the Oslo University Hospital, University of Oslo, as well as international collaborations, which the candidate will actively use in the project.

### Required skills, qualifications and experience

- Master degree in a relevant field of research is mandatory and a medical degree is considered an advantage
- Experience with animal work (Felasa C certificate), in vitro cell culture (preferably of primary cells) and cellular immunology techniques are considered a strong advantage
- Proficient in written and oral English (international applicants must document these skills prior to admission to the PhD programme)

### Personal skills

You should be highly motivated, structured in your approach to problem solving with excellent laboratory skills and good collaborative qualities.

### We offer

- A dynamic and stimulating scientific environment in a young, enthusiastic and motivated team of biologists and MDs.
- A friendly working environment with continuous instruction/supervision in a solution-oriented team of highly-skilled post-docs and laboratory personnel
- A top-modern laboratory with access to a wide range of core facilities (animal, light and electron microscopy, flow cytometry)
- Collaboration with research groups within Norway and Internationally
- Annual salary is based on state salary schedule Ltr. 50-57 (NOK 436 900 - 490 900) depending on qualifications
- Attractive [welfare benefits](#) (health-care insurance included) and a [generous pension agreement](#), in addition to Oslo's family-friendly environment with its rich opportunities for culture and outdoor activities

### How to apply

The application must include:

- Application letter (statement of motivation, summarizing scientific work and research interest, max. 1 page)
- CV (summarizing education, positions, rewards, grants, pedagogical experience, administrative experience and other relevant activity)
- Copies of educational certificates (academic transcripts only)
- A complete list of publications and academic work Note: Applicants are advised not to attach the original publications, only to provide a list.

- Names and contact details of 2-3 referees (name, relation to candidate, e-mail and telephone number and if available short letter of recommendation).

The application with the required attachments should preferably constitute as few files as possible, preferably 1-2 files.

The application with attachments is to be delivered in our electronic recruiting system JobbNorge. Foreign applicants are advised to attach an explanation of their University's grading system. Please remember that all documents should be in English or a Scandinavian language.

## Formal regulations

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

No one can be appointed for more than one PhD Research Fellowship period at the University of Oslo. According to the Norwegian Freedom of 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 appointment may be shortened/given a more limited scope within the framework of the applicable guidelines on account of any previous employment in academic positions.

The Fellowship [requires admission to the PhD programme at the Faculty of Medicine](#). Appointment to a PhD research Fellowship is conditional upon admission to the Faculty's research training programme.

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.

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## Contact information

Søren Pischke, MD PhD, email: [s.e.pischke@medisin.uio.no](mailto:s.e.pischke@medisin.uio.no)

(Startdate - Preferably September 1st, 2018)

## 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 Clinical Medicine (Klinmed)** is one of three institutes under

the Faculty. Klinmed is responsible for the Faculty's educational and research activities at Oslo University Hospital and Akershus University Hospital. With about 800 employees spread over approximately 425 man-labour years, Klinmed is the university's largest institute. Our activities follow the clinical activity at the hospitals and are spread across a number of geographical areas.

Jobbnorge-ID: 151979, Søknadsfrist: Avsluttet