

## 15 PhD positions to investigate "Secretion and Autophagy and their roles in Neurodegeneration"

Funded by the [Marie Skłodowska-Curie Innovative Training Networks \(MSC-ITN\)](#) under the European Commission's Horizon 2020 programme.

### Requirements

- A Master Degree in a relevant discipline or a MD degree.
- Strong command of English language (written and spoken)
- Prior experience in membrane biology (trafficking or autophagy) is considered an advantage
- Prior experience in the use of models of neurodegeneration (in vivo or in vitro) is an advantage

To see the full list of projects and learn more about the application process visit:

<https://euraxess.ec.europa.eu/jobs/445920>

[www.sand.uio.no](http://www.sand.uio.no)

Twitter: @SAND\_ITN

### Benefits

- Appointment for a period of three years (36 months contract) with a competitive remuneration package including social security, plus mobility and family allowances as per rules of Marie Skłodowska-Curie Actions - Innovative Training Networks (ITN);
- Sick-Leave & Parental-Leave in-keeping with national laws of the Host Institution.
- The opportunity to conduct cutting-edge research in the groups of leading international laboratories
- Participation in workshops covering scientific and transferable skills

### Eligibility criteria

At the time of appointment candidates must have had less than four years full-time equivalent research experience and must not have already obtained a PhD. Additionally, they must not have resided in the host country for more than 12 months in the three years immediately before the appointment.

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|--|--|--|---|
| University of Oslo, <b>Norway</b><br>Group: Hesso Farhan             | Hubrecht Institute, <b>Netherlands</b><br>Group: Catherine Rabouille   | University of Cambridge, <b>UK</b><br>Group: David Rubinsztein                 | PreDiagnostics, Oslo, <b>Norway</b><br>Group: Erik Christensen  |
| University of Oslo, <b>Norway</b><br>Group: Anne Simonsen            | Leibniz Institute on Aging, <b>Germany</b><br>Group: Christoph Kaether | INSERM, Institute of Systems Neuroscience, <b>France</b><br>Group: Georg Haase | CellStress Discoveries, <b>Ireland</b><br>Group: Afshin Samali  |
| Ludwig Maximilians Univ. <b>Germany</b><br>Group: Christian Behrends | Karolinska Institutet, <b>Sweden</b><br>Group: Per Nilsson             | EPFL, Lausanne, <b>Switzerland</b><br>Group: Hilal Lashuel                     | Darwin Microfluidics, <b>France</b><br>Group: Gianpiero Lazzari |
| Ludwig Maximilians Univ. <b>Germany</b><br>Group: Sabine Liebscher   | University of Milan, <b>Italy</b><br>Group: Thomas Vaccari             | University of Edinburgh, <b>UK</b><br>Group: Siddharthan Chandran              |   |

Background image by Laura Behrendt

The membrane trafficking group (AG Kaether) at the [The Leibniz-Institute on Aging – Fritz Lipmann Institute Jena](#) (FLI) invites applications for a

### Doctoral thesis (PhD) in Biochemistry/Cell Biology/Neurobiology

The FLI provides an international and dynamic research environment with highly interacting groups. [Our group](#) is working on intracellular transport mechanisms, with a focus on membrane proteins of the early secretory pathway. The thesis project is funded by the EU in the framework of the ITN (innovative training network) SAND (Secretion, Autophagy and their role in Neurodegeneration). It will be on **Systematic analysis of the link between secretion and autophagy at the ER**. We are looking for motivated students who like to work on the commonalities and differences in vesicle biogenesis for ER-Golgi, ER-autophagosome and ER-peroxisome pathways. You will use a variety of different methods including cloning and expression of fusion proteins, immunofluorescence and live-cell microscopy including super resolution microscopy. You will also determine the interactome of ER exit site proteins in various conditions of induced/inhibited secretion and autophagy. As model system, you will use cultured cell lines and primary neuronal cultures. Candidates are expected to have a strong background in biochemistry or cell biology or neurobiology. Experience in at least some of the mentioned methods is highly desirable.

The ITN SAND offers an excellent teaching program in an international setting with regular meetings, workshops, courses etc. The PhD candidate will get additional training in two secondments in Italy and France. For more info see <http://www.sand.uio.no>.

### **The application process:**

Please follow the guidelines provided on:

<https://euraxess.ec.europa.eu/jobs/445920>

and send your application electronically until October 15th, 2019, to: [sand.itn.project@gmail.com](mailto:sand.itn.project@gmail.com)

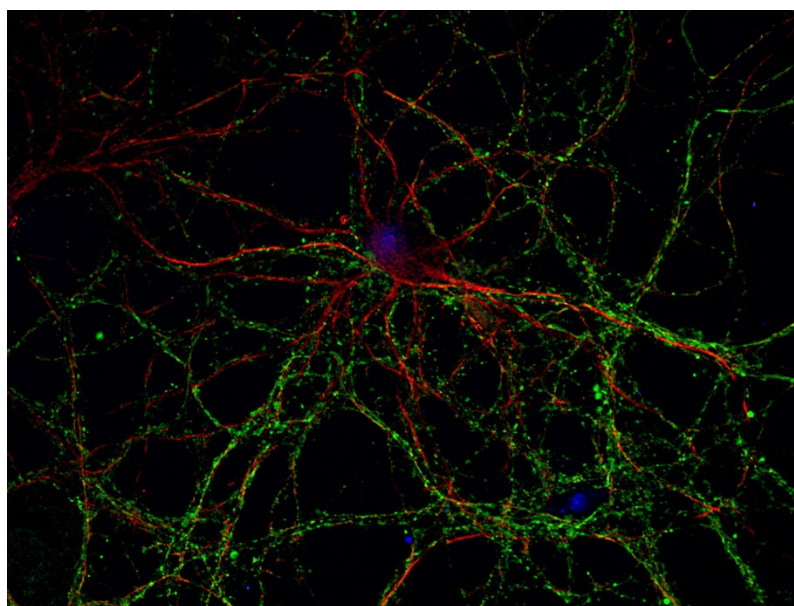
Project(s): applicants can select up to two (2) preferred projects from the list available.

Required documents: a full CV, a motivation letter including a description of previous research experiences and contact details of two referees. Only documents in English will be accepted. Please also include copies of credentials

Submission: applicants should submit the documentation to [sand.itn.project@gmail.com](mailto:sand.itn.project@gmail.com) writing in the subject line the number of their selected projects (e.g. Projects-1 and -2) by October 15<sup>th</sup> 2019. Successful applicants are expected to start their projects on November 1<sup>st</sup> 2019 at earliest, but no later than February 2020.

In addition, all doctoral students at FLI are member of the Leibniz graduate school on Aging (LGSA). The LGSA has a centralized application and selection procedure, for details please check the homepage <https://lgsa.leibniz-fli.de/>. If you are interested in Project-9, please send a copy of your application to the LGSA.

Further details and informal inquiries (not applications): [ckaether@fli-leibniz.de](mailto:ckaether@fli-leibniz.de)



*Image by Laura Behrendt*