

The LOEWE program **Ubiquitin-Networks** is a newly established interdisciplinary research network which has been initiated jointly by the Goethe University Frankfurt and the Max-Planck-Institute for Heart and Lung Research in Bad Nauheim. The network recently received funding by the Hessian Excellence Initiative (LOEWE) for the next 3 years and is looking to recruit

**1 Junior Group Leader**  
(up to E 15 TV-G-U)

**1 Postdoc**  
(E 13 TV-G-U)

**12 PhD students**  
(E13 TV-G-U, 65 %-half-time)

(subject to the approval of funding)

The **Junior Group** will be established in the field of **Systems Biology/Biochemistry/Functional Aspects of Ubiquitin signaling** and be situated at the Buchmann Institute for Molecular Life Sciences ([www.bmls.de](http://www.bmls.de)) on Riedberg campus. The successful candidate is expected to initiate an independent and competitive research program. The Institute provides well-equipped laboratory space in a dedicated research building, offering a modern infrastructure and new facilities for advanced light microscopy, cryoEM tomography, and structural biology. The group will be well embedded within the LOEWE program and the local research community at the University's Riedberg campus with the Biocenter, the Biologicum, the two MPIs for Biophysics and Brain Research and the NMR and EPR Centre (BMRZ) closeby.

Group leaders are appointed for a 5-year term starting on **1.1.2014**. Requirements include a PhD or MD/PhD degree, appropriate postdoctoral training and an innovative research plan. Applicants should have a strong scientific record and a profound interest in **Ubiquitin signaling**. The full application should be sent as a single pdf file stating reference SYSBIO-JGL to [loewe@biochem2.de](mailto:loewe@biochem2.de), including a cover letter, CV with list of publications, references and a research plan (max. 5 pages).

The **postdoctoral project** is dealing with the impact of Ubiquitin networks in mitochondrial quality control and ageing, utilizing the well-established *Podospora anserina* model system. Candidates for this position should have a strong background in molecular biology and profound practical experience in handling filamentous fungi (i.e. transformation) as experimental model systems. The position is initially limited to three years. Applications should be sent to Prof. Dr. Heinz D. Osiewacz, Institute for Molecular Biosciences, [osiewacz@bio.uni-frankfurt.de](mailto:osiewacz@bio.uni-frankfurt.de).

**PhD students** will be located at one of the Goethe University campuses within Frankfurt or at the MPI for Heart and Lung Research in Bad Nauheim. Successful candidates will be embedded in a highly competitive interdisciplinary research program offering complementary trainings and a framework of common scientific activities. Applicants for PhD positions should choose their field of interest from the projects listed below and send their application in a single pdf-file including cover letter, CV and references to the responsible group leader. Further details about the projects can also be obtained from the group leaders directly. The positions are initially limited to three years.

Deadline for all applications is the **7<sup>th</sup> November 2013**.

#### **PhD projects:**

---

##### **Structural characterization of complexes involved in ERAD**

Prof. Dr. Volker Dötsch, Institute of Biophysical Chemistry, GU Frankfurt, [vdoetsch@em.uni-frankfurt.de](mailto:vdoetsch@em.uni-frankfurt.de)

##### **Regulation of substrate specificity of proteasomal Ub receptors**

Dr. Koraljka Husnjak, Institute of Biochemistry II, GU Frankfurt, [Husnjak@biochem2.de](mailto:Husnjak@biochem2.de)

##### **Specificity of proteasomal degradation under acute starvation**

Dr. Martin Vabulas, BMLS, GU Frankfurt, [vabulas@em.uni-frankfurt.de](mailto:vabulas@em.uni-frankfurt.de)

##### **Role of UPS networks in embryonic development**

Dr. Christian Pohl, BMLS, GU Frankfurt, [pohl@em.uni-frankfurt.de](mailto:pohl@em.uni-frankfurt.de)

##### **Quantitative analysis of Ubiquitin signals in 3D tissue models utilizing dynamic 3D fluorescence microscopy**

Prof. Dr. Ernst Stelzer, Dr. Francesco Pampaloni, BMLS, GU Frankfurt, [francesco.pampaloni@physikalischebiologie.de](mailto:francesco.pampaloni@physikalischebiologie.de)

##### **Mathematical modeling to explore the role of Ub-receptors in the clearance of intracellular pathogens**

Prof. Dr. Ina Koch, Molecular Bioinformatics, GU Frankfurt, [ina.koch@bioinformatik.uni-frankfurt.de](mailto:ina.koch@bioinformatik.uni-frankfurt.de)

##### **Dynamic regulation of Notch signaling by deubiquitylating enzymes (DUBs)**

Dr. Michael Potente, MPI for Heart and Lung Research, Bad Nauheim, [michael.potente@mpi-bn.mpg.de](mailto:michael.potente@mpi-bn.mpg.de)

##### **Regulation of apoptosis and necrosis by Ub networks**

Prof. Dr. Simone Fulda, Institute for Experimental Cancer Research in Pediatrics, GU Frankfurt, [Simone.Fulda@kqu.de](mailto:Simone.Fulda@kqu.de)

##### **Ub networks in human leukemias**

Prof. Dr. Hubert Serve/Dr. Sebastian Wagner, Medizinische Klinik II, GU Frankfurt, [sebastian.wagner@kqu.de](mailto:sebastian.wagner@kqu.de)

##### **Ub dependent regulation of MAPK cascades**

Dr. Krishna Rajalingam, Institute of Biochemistry II, GU Frankfurt, [krishna@biochem2.de](mailto:krishna@biochem2.de)

##### **2 PhD positions for the new to be established junior group**

Apply to [loewe@biochem2.de](mailto:loewe@biochem2.de), stating reference SYSBIO-PHD