From Data Integration to Computational Modeling of Biological Systems for Medical Application

The LOEWE Focus project **Pathogenic Mechanisms of the acute on chronic liver failure and therapeutic approaches: the ACLF initiative (ACLF-I)** is a newly established interdisciplinary research network which has been initiated jointly by the Goethe University Frankfurt, the Fraunhofer Institute for Translational Medicine and Pharmacology, the Georg-Speyer-Haus and the Paul-Ehrlich-Institute. The network recently received funding by the State of Hesse and is looking to recruit

1 postdoctoral scientist
(m/f/d, E 13 TV-G-U, 100%).

The positions for postdoctoral scientists are initially limited to three years with the possibility of extension. Successful candidates are appointed from **01/2022 or later**.

The ACLF-I project strives to unravel and understand selected pathogenic mechanisms of the acute on chronic liver failure to identify disease-relevant critical targets for therapeutic and preventive intervention. The project within the ACLF-I will **focus on computational systems medicine, in particular on the analysis of signal transduction pathways, development of integrative computational models in holistic approaches, including data integration techniques ranging from statistical methods to machine learning approaches.** ACLF is well embedded in the excellent research infrastructure at the participating universities and research institutions; all participating sites offer access to state-of-the-art technologies, well-equipped laboratories, a vibrant scientific exchange and an internationally competitive scientific training program.

The candidate should have a first-class academic PhD degree in a bioinformatics discipline, computational biology, computational systems biology or similar areas. A record of relevant peer-reviewed publications is mandatory. Candidates should be interested and enabled to intensively interact with the experimentally working scientists within the ACLF-I consortium. Candidates are highly motivated and enthusiastic to join the fast-moving and internationally highly competitive field and are characterized by good collaborative skills. Very good written and spoken English is expected. As part of ACLF-I, we offer tailored interdisciplinary training to all researchers in the network, a framework of common scientific activities and a strong mentorship for future career development.

The university and all institutes advocate equal rights for women and men and therefore urge women to apply. Handicapped candidates are given preferential treatment with equal personal and professional qualifications.

Applicants should send their application via e-mail **within four weeks after the publication of this advertisement** in a single pdf-file including cover letter, CV, scanned academic degrees, list of publications and two references with contact details to

Prof. Dr. Ina Koch, e-mail: ina.koch@bioinformatik.uni-frankfurt.de.

Please do not send any original documents as the application documents will not be returned.
Travel and application costs cannot be reimbursed.