CHARITÉ

Job offer: PhD student position

in the research group "Systems Biology of Cancer",
Molecular Cancer Research Centre (MKFZ), Charité – Medical University of Berlin
and
Institute for Theoretical Biology (ITB), Charité and Humboldt University of Berlin

January 2016

The *Systems Biology of Cancer* group investigates the circadian regulation of tumour-driving mechanisms. The group includes both dry lab facilities at the Institute for Theoretical Biology and wet lab facilities at the Molecular Cancer Research Centre. We work together with bioinformaticians, physicists, molecular biologists and medical doctors and closely collaborate with the European Molecular Biology Laboratory (EMBL) where the group members are encouraged to attend conferences and courses.

Our group uses a systems biology approach involving wet-lab experiments, genome wide screening of gene expression of human and murine cells, bioinformatics and computational models, to understand the dynamic interplay between cancer and the circadian clock. With such a methodology, we aim to investigate the pathways which connect the circadian clock to cancer regulation at the transcriptional (including splicing) and translational levels.

Homepage: https://itb.biologie.hu-berlin.de/wiki/groups/relogio/start

PhD student position in Computational Systems Biology (m/f)
We seek highly motivated students to work on different aspects of our research. Available projects include mathematical modelling of the circadian clock, development of circadian regulatory networks in a cancer context and analysis of alternative splicing switches in tumorigenesis.

Profile
-MSc degree (or equivalent) in Bioinformatics, Applied Mathematics, Computer Science or a similar field
- Strong programming skills including R and experience in mathematical modelling
- Knowledge of biochemistry and molecular biology would be beneficial
-Ability to work in an interdisciplinary environment and good communication skills including fluent in spoken and written English

The PhD position is available for a period of three years.

How to apply: Please address inquiries and applications electronically (incl. short letter of motivation, full CV, contact of two referees) to **Angela Relógio (angela.relogio@charite.de)**.