



Postdoctoral Position in Systems Biology – October 2006 (earliest)

Systems Biology of Apoptotic Cell Death Signaling Networks

Applications are invited for a Postdoctoral position in Systems Biology (initially for three years) in the Department of Physiology and Medical Physics/RCSI, Dublin, Ireland. The position is funded by the Health Research Board Ireland (HRB).

Candidates should have a background in systems biology, computational biology, biophysics or applied mathematics, and be experienced in numerical analysis/programming (e.g. C++, MATLAB, Mathematica). Excellent written and communication skills and a high level of motivation and commitment are required. The institute is located in the heart of Dublin city and offers an international and interdisciplinary working environment spanning the fields of systems biology, cancer and molecular biology, biophysics, and mathematics.

Apoptotic cell death is regulated by complex signalling networks spanning several compartments within living cells. Impaired apoptosis can result in developmental disorders and cancer. In an industry collaboration with SIEMENS (Medical Division) the applicant will translate biological systems into novel computational models that allow the spatiotemporal and quantitative prediction of signalling events, and the identification of key regulatory factors or threshold mechanisms deciding on apoptotic cell death. The applicant will work interactively with the experimentalists to discuss model validity and restrictions. Generated models will qualitatively and quantitatively be validated by experimentalists measuring the real time kinetics of key signalling events within living cells.

Applications should include CV and names and addresses of two referees and be sent (preferably by e-mail) to:

Dr. rer. nat. Markus Rehm
Lecturer in Physiology and Biophysics
Department of Physiology and Medical Physics
Royal College of Surgeons in Ireland
York Street Building
Dublin 2
Ireland
email: mrehm@rcsi.ie

Key publications are available on request