

**From:** [Ines Thiele](mailto:Ines.Thiele)  
**To:** [systemsbiology@hi.is](mailto:systemsbiology@hi.is)  
**Subject:** Two Postdoctoral Positions at the Center of Systems Biology, University of Iceland  
**Date:** 2009 September 01 18:59:05

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Dear Colleague,

The Center of Systems Biology, University of Iceland ([www.systemsbiology.is](http://www.systemsbiology.is)) is looking to recruit two highly motivated postdoctoral fellows to join a growing effort focusing on systems biology of human metabolism. The research at the Center for Systems biology focuses on 1) human metabolism and 2) industrial biotechnology. We would appreciate if you could forward this message to appropriate candidates in your laboratory.

The CSB UoI has been awarded an ERC grant to characterize human disease using a systems biology approach. The research effort focuses on 1) expanding the currently available human metabolic reconstruction, 2) discovery of new functions and pathways in human metabolism using computational and experimental techniques, 3) phenotyping of human cell lines using metabolomic techniques, 4) computational and experimental analysis of metabolic changes associated with disease, and 5) high-throughput drug screening. We use state-of-the-art computational methods to guide and design human cell culturing experiments as well as metabolomic measurements. These technologies are embedded in a biologically driven research program that aims at systematic understanding of human metabolism, disease manifestation and drug target identification.

Best regards,  
Ines Thiele, Assistant Professor

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### **Postdoctoral Position: Development of computational methods for human systems biology**

The successful candidate will be expected to process and employ high-throughput data (transcriptomic and metabolomic data) to generate cell- and tissue specific models, which will allow simulation of normal and disease states. The postholder will develop and improve computational methods based on operation research approaches. The project includes the interrogation of metabolic networks and translation of quantitative HT data as model constraints. Furthermore, the postholder will be involved in other projects in the group and at the CSB UoI requiring development of computational methods.

The ideal candidate will hold a PhD in Bioinformatics or related field and have a strong background in computational modelling, operation research, statistical analysis, high-throughput data analysis and biology. All projects at the CSB UoI are interdisciplinary; therefore, a strong motivation to collaborate with experimental groups is required. Excellent programming skills are required. Knowledge of human metabolism and drug metabolism is of benefit. Furthermore, the candidate must be fluent in English. In addition, the candidate must have excellent communication and interpersonal skills and be capable of working within a team of biologists and programmers. [more...](#)

### **Postdoctoral Position: Mathematical modeling of human metabolism**

The successful candidate will be expected to work on expanding the human metabolic

reconstruction and lead the computational gap filling effort. The postholder will also mine databases and genomic information, participate in protein annotation of this human metabolism project and will be expected to provide curation and quality control for the protein functional annotation framework. In addition, the postholder will be part of a team to develop quantitative tools required to expand mass spectrometry capabilities and integrative bioinformatics at the CSB UoI.

The ideal candidate will hold a PhD in Bioinformatics or related field and have a strong background in biology as well as computational modelling. All projects at the CSB UoI are interdisciplinary; therefore, a strong motivation to collaborate with experimental groups is required. Programming skills and knowledge of computational methods used in systems biology are required. Knowledge of human metabolism and drug metabolism will be advantage. Individuals with backgrounds in metabolic network reconstruction or metabolic engineering are especially encouraged to apply. Furthermore, the candidate must be fluent in English. In addition, the candidate must have excellent communication and interpersonal skills and be capable of working within a team of biologists and programmers. [\\_more...](#)

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