

Postdoc/PhD position in Arabidopsis metabolic network reconstruction

We are seeking a highly motivated postdoctoral fellow or PhD student to work on Arabidopsis metabolic network reconstruction in the context of MetaNetX, a SystemsX.ch project focusing on the development of integrated computational methods and tools for the automated reconstruction of genome-scale metabolic networks (<http://www.systemsx.ch/>). During the last few years, we have assembled databases for qualitative and quantitative information on Arabidopsis proteins (AtProteome; Baerenfaller et al., *Science* 320: 938, 2008; Reiland et al., *Plant Physiol* 150: 889, 2009) and transcripts (Genevestigator[®]; Zimmermann et al., *Trends Plant Sci* 10: 407, 2005; Hruz et al., *Advances in Bioinformatics*, Article ID 420747, doi:10.1155/2008/420747, 2008). In collaboration with colleagues in Molecular and Computational Systems Biology, we are utilizing this information in MetaNetX for reconstruction of genome-scale metabolic networks, including the prediction of novel reactions and pathways and the leverage of this information for refined genome annotation.

Candidates must have a strong interest in biology and metabolism. She/he should have a solid foundation in biochemistry, and training in bioinformatics and computational biology. Postdoctoral applicants need to have published at least one first-author paper in an international journal. PhD applicants must have a Masters degree practical experience in bioinformatics and modeling.

The successful candidate will benefit from collaborations with colleagues in a currently running EU FP6 project (AGRON-OMICS, <http://www.agron-omics.eu/>) focusing on network modeling of leaf development and a new EU FP7 project (TiMet) to model the integration of circadian clock and metabolic pathway regulation.

The position will be available beginning March 2010, for three years. Please send applications with a letter of motivation, a curriculum vitae, and at least three references to

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