

Post-doctoral position in Arabidopsis network modeling

We are seeking a highly motivated post-doctoral fellow to apply state-of-the-art modeling approaches to phenotypic and molecular data acquired in the context of the AGRON-OMICS integrated project (www.agron-omics.eu), a large European consortium focusing on the global characterization of Arabidopsis leaf growth. The molecular data consist of transcriptomics, proteomics and metabolomics profiling data from Arabidopsis leaves at different developmental stages. Modeling includes stoichiometric network analyses and qualitative approaches to analyze the dynamical properties of molecular interaction networks and to explain quantitative growth phenotypes.

The candidate must have a strong interest in integrative biology. She/he should have a solid foundation in biology, bioinformatics and mathematics and needs to document practical experience in modeling. Applicants need to have published at least one first-author paper in an international journal.

During the last few years, the Gruissem lab has assembled databases for information on Arabidopsis proteins (AtProteome) and transcripts (Genevestigator[®]) and worked on the integration of these datasets (e.g., Zimmermann et al., *Trends Plant Sci* 10: 407, 2005; Baerenfaller et al., *Science* 320: 938, 2008). The successful candidate will benefit from collaborations with colleagues in a new EU FP7 project (TiMet) to model the integration of circadian clock and metabolic pathway regulation, as well as in the MetaNetX project, a SystemsX.ch funded project constructing genome-scale metabolic networks.

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

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