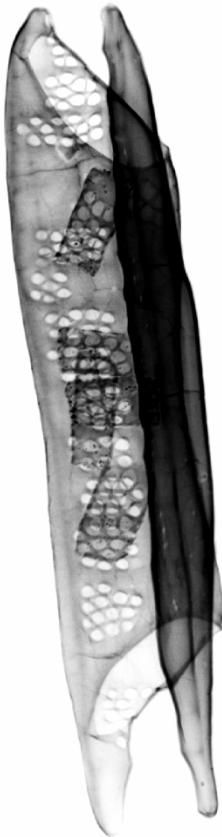


A postdoc position available at UPSC in xylem development

A postdoc position is open within a collaborative project that elucidates the link between lignification and cell death in the late developing xylem elements. The aim of the project is to focus on a few selected candidate genes, and analyse their function in the control of lignification and cell death of xylem elements using various techniques such as reverse genetics in *Arabidopsis*, transgenic approaches in *Populus*, and wood analytics with FT-IR and pyrolysis-MS.

Novel candidate genes in the regulation of lignification versus cell death will be sought among genes that we have earlier identified as being differentially expressed in tracheary elements with incomplete lignification and cell death. The selected genes will be functionally characterised in *Arabidopsis*. In addition, we have earlier selected a glycosylhydrolase family 1 gene (*PttGHI_49*) as a candidate gene on the basis of specific expression pattern in late developing xylem elements of *Populus* wood (Genome Biology 6/4/R34). Analysis of transgenic *PttGHI_49* RNAi lines, showing alterations in the FT-IR spectra of the wood, will be completed within this project.



The position is open for one year with a possible extension for a second year. Highly motivated applicants with a good publication record will be considered. The requested experimental skills include a solid background in molecular biology. Previous experience in xylem analytics is an advantage. The salary is 15500 SEK (tax free) per month. The position is available immediately and applications will be reviewed until February, 15.

UPSC is a vibrant and international research centre within plant and forest experimental biology and biotechnology located in Umeå, which is the capital of northern Sweden. Umeå is an attractive university town with rich academic, cultural and outdoor activities.

For more information, please contact one of the partners of the collaborative project; Dr. Hannele Tuominen (Hannele.tuominen@plantphys.umu.se) or Dr. Deborah Goffner (goffner@scsv.ups-tlse.fr).

Applications including detailed CV, a brief description of the previous work, a list of publications and the names of at least two referees must be sent by e-mail to:

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