

## **EVOLTREE Mobility - Back to office report:**

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Stay of two weeks at Program in Evolutionary Functional Genomics Graduate School and Martin Lascoux's lab, University of Uppsala, from April 10-22, 2009

The trip had three different foci:

1. Participation in Coalescence workshop at the Evolutionary Functional Genomics Graduate School.
  - a. The first part of the workshop held by Kevin Thornton (UC Irvine, Dept. of Ecology and Evolutionary Biology) included lectures on selection & coalescence, structured coalescence and the detection of sweeps. These lectures were coupled with hands on training in the use of 'MS' & 'MSstats'.
  - b. The second part - held by Matthieu Foll from the Excoffier lab and Michael Blum from the mathematical team of TIMC, Grenoble included lectures on Inference methods and Approximate Bayesian Computation encompassed by hands on training in using R for Bayesian computation.

Both workshops were highly effective in setting the ground for using the methods in future analysis.

2. Discussions on two pending papers on Tibetan forest history.
  - a. The coalescence workshop as well as the discussions in the Lascoux lab will accelerate a publication and thus conclusion of the phd-dissertation of Lars Opgenoorth - as publication is pending based on a request for coalescence analysis.
3. Discussions on *Picea abies* genomics for a Post Doc project proposal

- a. These discussions were essential in outlining future collaboration and developing strategies for a project proposal for Lars Opgenoorth. Due to insights from the coalescence workshop and the discussions on *Picea* Lars Opgenoorth will change the focus of the project proposal to what was originally anticipated. The focus will now be on research in connection with budset in the Bavarian *Picea* forests. This way synergy effects - also in combination with the work of Beppe Vendramin, can be increased as we would effectively gain more replicates in the overall project setting.