

Schedule

PNS0221

From population to ecological functional genomics: concepts, tools and applications (2.5 credits)

The course runs with lectures and exercises May 24th to May 28th. The course will consist of five scheduled days, including morning lectures and practical exercises or case of study discussions in the afternoon. The students will also write a final report and present their results on June 4.

Mon, May 24	Tues, May 25	Wed, May 26	Thur, May 27	Friday, May 28	Friday, June 4
Population genetics theory and basic bioinformatics (PI)	Population structure, demographic inference, coalescence (SG)	Population history, admixture, introgression and hybridization (MJ)	Genomic basis of adaptive evolution and inference of selection (FK).	Ecological functional genomics (AS)	Submit final report and present results in oral presentation
Computer exercises (PI)	Hands-on exercise on demographic inference (SG)	Hands-on exercise (MJ)	Hands-on exercises on genomics of Adaptation (MB)	Hands-on exercises on Ecological genomics (KS).	

PI: Pär Ingvarsson; Department of Plant biology, SLU, Uppsala Sweden

SG: Sylvain Glémin; CNRS, Univ Rennes, ECOBIO (Ecosystèmes, biodiversité, évolution)-UMR 6553, F-35042 Rennes, France.

MJ: Mattias Jakobsson; Human Evolution, Department of Organismal Biology, Uppsala University, SciLifeLab, SE-752 36 Uppsala, Sweden.

FK: Filip Kolář; Department of Botany: Charles University, Prague, Czechia.

MB: Magdalena Bohutínská; Department of Botany, Charles University, Prague, Czechia.

AS: Adrien Sicard; Department of Plant biology, SLU, Uppsala Sweden

KS: Kévin Sartori; Department of Plant biology, SLU, Uppsala Sweden