## Genetics and genomics of adaptation to climate change in plants



	Monday 25/11.2024	Tuesday 26/11– Field work	Wednesday 27/11	Thursday 28/11	Friday 29/11
8.30		Excursion: Analysis og phenotypes in	Case and Exercise:	Case and Exercise:	Participants projects
9.15-	Welcome and presentation	situ and common gardens.	analysis of data from	Genomic population	Presentations of
10.00	of lectures and participants	Departure from R23: 8:30	common garden trials	analysis and linking	participants own
		<u>Valby Hegn:</u>	(Jon Kehlet Hansen/Erik	genotype to	research. Discussions on
10.15-	Lectures: Adaptation of	*Trial design and demonstration of	Dahl Kjær).	phenotype by GWAS	how it related to
11.00	plant populations to stable	phenotyping in Quercus petraea trees in	Based on code and	(Jill Katharina	genetics of climate
11.15-	or shifting climates	common garden.	output from study of the	Olofsson/James	change, and appropriate
12.00	(Erik Dahl Kjær)	*In situ and common garden based	common gardens with	Doonan/Erik Dahl	analysis tool that are
		analysis of ADB tolerance in Fraxinus	trees in Valby Hegn and	Kjær)	applied - or can be
		excelsior trees	Vejbæk	Based on code and	applied.
		<u>Tjæreby:</u>		output from study of	
		*Clonal and progeny trials in Fraxinus		the common garden	
		excelsior trees		in Vejbæk and	
		*Provenance/progeny trial in Alnus		Tjæreby	
		glutinosa trees			
	LUNCH: Canteen	<u>Arboretum:</u>	LUNCH: Canteen	LUNCH: Canteen	LUNCH: Canteen
13.00-	Lecture: Analytic	LUNCH	Case and Exercise:	Follow up on the	Participant projects,
13.45	approaches to study	*Visit tree collection and discuss use of	Landscape genomics (Jill	cases.	continued.
14.00-	adaptation in long lived	Arboreta collections for predicting	Katharina Olofsson/Erik		Wrapping up and
14.45	plants	growth in future climate and risk of new	Dahl Kjær).	Lecture and	evaluation
15.00-	(Jill Katharina Olofsson/Erik	pests and pathogens.	Based on code and	discussion: Genetic	Good bye ©
15.45	Dahl Kjær)	*Lecture: Genetic analysis of	output from study of the	management for	
16.00-	Coffee break	ecophysiology in relation to climate	common garden in Valby	climate adaptation	
17.00	Lecture: How can we	change (Anders Ræbild/ Jon Kehlet	Hegn	with focus on tree	
	measure genetic diversity	Hansen/ Erik Dahl Kjær).		species (Erik Dahl	
	and adaptive potential			Kjær)	
	(Erik Dahl Kjær)				