

# Nordic Network for Polyploid Trees (POLYTREE) Workshop

Copenhagen, June 13-15 2022

Program as of June 2nd, 2022 – small changes may occur

Date	Time	Speaker	Title
Monday June 13		<i>(Chair: Jarkko T. Salojärvi, University of Helsinki)</i>	
	9:00	Organizers/Anders Ræbild	Welcome and introduction: Why is polyploidy in trees important?
	9:30	Martin Lascoux, University of Uppsala	<i>Keynote:</i> Genomic and transcriptomic evolution of a recent allopolyploid species. Evolution in <i>Capsella</i> : Transcriptomic, genomic and other shocks?
	10:30	<i>Break</i>	
	11:00	Kesara Margrét Jónsson, University of Iceland	Holocene birch hybridization in Iceland coinciding with periods of climate warming
	11:30	Kaisa P. Nieminen, LUKE	Polyploid birches: Genetic resource for tree architecture
	12:00	<i>Lunch</i>	
	Afternoon session	<i>(Chair: Martina Stromvik, McGill University)</i>	
	13:00	Adam Vivian-Smith, NIBIO	TBA: Polyploidy and small RNAs

	13:30	Network members led by Kaisa, Juha, Brynjar	<i>Guided discussion:</i> Use of polyploids in forestry and the implication of polyploidy for breeding
	14:15	Anders Ræbild	Visit to polyploid woody plant in greenhouses at Rolighedsvej 23
	15:00	<i>Break</i>	
	15:30	Network members led by Anders with Anna, Athina	<i>Guided discussion:</i> The anatomy, morphology, and physiology of polyploidy trees
	16:15		Concluding remarks and end of day
Tuesday June 15		<i>(Chair: Kesara Margrét Jónsson, University of Iceland)</i>	
	9:00	Martina Stromvik, McGill University	<i>Keynote:</i> Building a pan-genome with diverse taxa of varying ploidy
	10:00	<i>Break</i>	
	10:30	Yves Van De Peer, Ghent University	<i>Keynote:</i> Evolutionary role and impact of whole genome duplication and polyploidy
	11:30	Anna-Catharina Röper, Technological Institute Denmark	Commercial usage of polyploidy
	12:00	Lunch	
	Afternoon session	<i>(Chair: Adam Vivian-Smith, NIBIO)</i>	
	13:00	Barry Lomax, University of Nottingham	<i>Keynote (online):</i> Polyploidy and genome size in plants: evidence from the fossil record
	14:00	Jarkko T. Salojärvi, University of Helsinki	Genome evolution and breeding history of an allopolyploid <i>Coffea arabica</i>
	14:30	Anders Ræbild, University of Copenhagen, and Anna Jensen, Linnæus University	Relationships between anatomy and photosynthesis in a ploidal series of <i>Acacia senegal</i>
	15:00	<i>Break</i>	
	15:30	Network members, led by Jarkko, Martina, Kesara	<i>Guided discussion:</i> Molecular physiology, gene expression, and genomics of polyploid trees
	16:15	Anders Ræbild	Visit to Campus park "Landbohøjskolens Have"

	Evening		Dinner (venue to be announced later)
Wednesday June 15		<i>(Chair: Anna Jensen, Linnæus University)</i>	
	9:00	Group work	What are the open questions and perspectives. Approximately three groups will be formed
	10:00	Network members, led by Anders, Martina, Jarkko, Kaisa, Adam and everyone	Feedback from groups (in plenum)
	10:30	<i>Break</i>	
	11:00	Network members/Anders Ræbild	<i>Discussion:</i> Prospects for collaboration / new projects
	12:00	Lunch	
	Afternoon session		
	13:00	Anders Ræbild with network members	<i>Closed point:</i> Business meeting of the network
	14:00	<i>Closing of workshop</i>	Coffee and goodbye