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Positions

2023-	Professor, Dept of Molecular Biology and Genetics, Aarhus University
2017-2023	Associate Professor, Dept of Molecular Biology and Genetics, Aarhus University
2014-2016	Assistant Professor, Dept. of Molecular Biology and Genetics, Aarhus University
2007 -2014	Postdoc, Department of Molecular Biology and Genetics, Aarhus University
2005-2007	Postdoc, Max Planck Institute for Developmental Biology, Department of Molecular Biology, Tuebingen, Germany
2005	Postdoc, Department of Molecular Biology and Genetics, Aarhus University
2004-2005	Research scientist at Plantic ApS, Aarhus, Denmark

Education and training

2017	IFD Pasteur program leadership course, HBS, Harvard University
2016	EMBO laboratory management course
2004	PhD degree in molecular biology, Aarhus University
2002	MSc degree in molecular biology, Aarhus University

Scientific summary

We study natural variation mainly in three legume species: Lotus japonicus, white clover and faba bean. Our aim is to detect and understand the genetic signatures left by selection, natural or plant breeding-associated, and to dissect the genetic basis of complex traits. We are particularly interested in the impact of plant-microbe interactions, especially those involving legumes, their nitrogen-fixing rhizobial symbionts and complex soil microbial communities. To investigate these topics, we make extensive use of high-throughput sequencing and bioinformatic analysis, including genome assembly, variant calling, QTL and GWA mapping, microbiome analysis, and transcriptional profiling including single-cell RNA-seq. As part of the Section for Plant Molecular Biology, which studies plant-microbe interactions using a variety of techniques, we also carry out wet-lab experiments to validate hypotheses on gene function and collaborate with breeders on developing new breeding approaches.

List of publications on Google scholar: <https://scholar.google.com/citations?user=wAgtbFwAAAAJ>