



Natural variation and genetics

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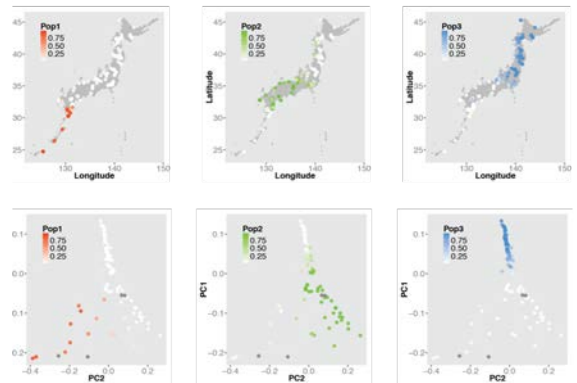


David Munch

Research interests

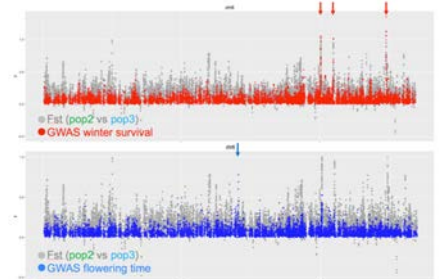
We are interested in natural variation and the genetic mechanisms that shape it.

Using the legumes *Lotus japonicus*, white clover, and faba bean, we investigate the genetics of plant adaptation, domestication, and symbiotic nitrogen fixation.



Projects offered

- Map and characterise genes controlling rhizobium infection in *Lotus*
- Test and characterise candidate genes in rhizobium
- Identify domestication signatures in white clover



Techniques

- We use next-generation sequencing to generate plant and bacterial genotype data across diversity panels.
- We apply bioinformatics methods to analyse sequencing data and associate phenotype and genotype data.
- We use molecular biology methods, including mutant studies and gene editing, to validate and characterise candidate genes.