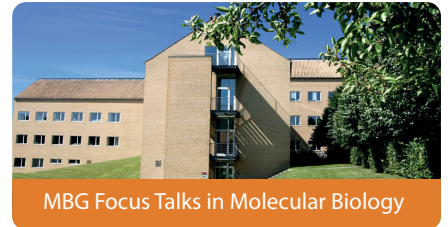


MBG FOCUS TALK

hosted by Stig U Andersen, Section of Plant Molecular Biology



Friday 28 February 2020 at 9.00-10.00

Dept. of Mathematics Aud D1 (1531 - 113)

Dr Macarena Marin

Institute of Genetics, Ludwig-Maximilians-Universität München

Exploring the natural diversity of Lotus to investigate the intracellular accommodation of rhizobia

In the symbiosis between legumes and rhizobia, the plants host rhizobia intracellularly within specialized organs called nodules. Forward genetics approaches have discovered a large number of genes involved in the initial recognition between the symbiotic partners, the epidermal infection and the development of the nodules. However, our understanding of how rhizobia are accommodated inside plant cells still remains largely unclear. To investigate this, we have exploited the natural diversity of *Lotus japonicus* accessions and combined it with RNA sequencing. Using this approach, we have identified a discrete group of plant genes potentially involved in the accommodation of rhizobia within plant cells. I will present the progress that we have made validating the molecular function of some of these genes.