

Module Description

name of the module	Molecular Developmental Biology of Plants (WM-19)
start	June-July
duration	2 - 3 weeks; limited number of students
location	University of Freiburg, Faculty of Biology
contact person	Thomas Laux (laux@biologie.uni-freiburg.de)
ECTS (regular/max)	9
examination	Individual
graded	no
description of content	<p>The students work on lab projects chosen from the following topics:</p> <p>Balance between stem cell renewal and differentiation, chromatin structure in cell fate regulation, embryonic formation of stem cells and meristems, meristem function, environmental regulation of meristem activity;</p> <p>mobile signals: micro RNAs, transcription factors;</p> <p>reconstruction of small RNA signaling pathways, logic of transcription factor networks, visualizing signaling processes by live imaging phosphorylation pathways;</p> <p>applied aspects in agronomics</p>

Links to the detailed description of the courses of this module (incl. schedule):

- [Practical exercises: Signaling pathways and chromatin regulation in meristems](#)
- [Seminar: When plants talk: mechanisms of cell-cell communication](#)