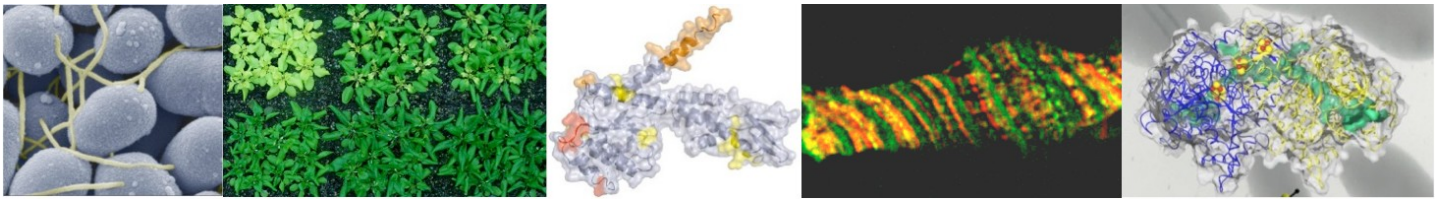

FROM MOLECULES TO CELLS

Kolloquium der molekularbiologisch-biochemisch arbeitenden Gruppen am Institut für Biologie der Humboldt-Universität zu Berlin

ANTRITTSVORLESUNG

Prof. Dr. Kerstin Kaufmann

Professur für Pflanzliche Zell- und Molekularbiologie
am Institut für Biologie, HU Berlin

Epigenetic control of developmental decisions in plants

Dienstag, den 12.12.2017, 16:15 Uhr
Philippstr. 13 (Rhoda-Erdmann-Haus), Rm 1023

Gäste sind herzlich willkommen!

Abstract:
Targeted changes in gene activity are central to eukaryotic development. These changes are mediated by the combined action of master regulatory transcription factors and epigenetic regulators. We use flower development as a model system to understand how developmental programs are encoded in plant genomes, and how this 'code' is read and executed. Flower development starts with re-programming of stem cell identities in floral meristems, followed by organ initiation, growth and differentiation. Homeotic regulators of the MADS-domain TF family, which determine the identities of different types of floral organs, control the expression of hundreds of genes in a partly stage-specific fashion. However, the molecular mechanisms of regulatory control are still poorly understood. This talk will cover recent advances on the integration of epigenetic and transcription factor control in flower development.