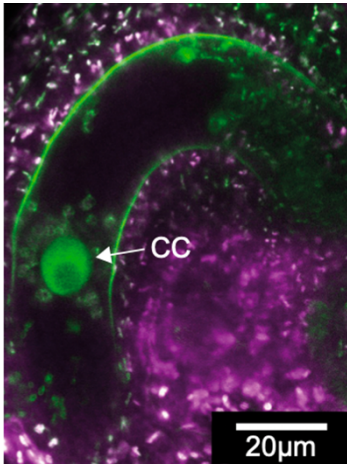

POSTDOCTORAL OR STAFF SCIENTIST POSITION IN PLANT EPIGENETICS



STUDYING DNA METHYLTRANSFERASES FUNCTION DURING PLANT REPRODUCTION

BACKGROUND

During sexual reproduction, the fusion of highly differentiated cells, the gametes, has to give rise to a totipotent embryo. Consequently, fertilization entails complex coordination of gene expression. The regulation of gene expression by DNA methylation has been shown to be crucial during gametogenesis and embryogenesis, for example by regulating imprinted genes in both plants and mammals. However, little is known about how DNA methylation is maintained or modified during reproduction. The *Arabidopsis* genome encodes 4 *MET* genes (*MET1*, *MET2a*, *MET2b*, and *MET3*), 3 *CMTs* (*CMT1*, *CMT2*, *CMT3*), and 3 *DRMs* (*DRM1*, *DRM2*, *DRM3*). However, the function of some of them is poorly or not understood especially in reproductive tissue.

YOUR QUALIFICATIONS

We are looking for motivated, and curious team players who are eager to learn, try new things and manage their own projects. You should have a Ph.D. (or possibly MSc) in plant molecular biology or related disciplines. You should have experience with *Arabidopsis* growth, genetics, and molecular biology technics, possibly with experience in imaging, FACS sorting and/or bioinformatics. You should have good communication and writing skills in English.

JOB INFORMATION

Start date: ASAP or to be agreed
Length of contract: 1-year
Activity rate: to be agreed
Workplace: IPS, University of Bern

YOUR APPLICATION

Email to pauline jullien (pauline.jullien@ips.unibe.ch) the following
a letter describing why you are interested in joining our group
a CV including a publication List and the names of 2 or 3 referees