Two postdoctoral positions in plant molecular biology and genetics in the Ziolkowski’s Lab

We are seeking candidates to fill two postdoc positions in the Department of Genome Biology at Adam Mickiewicz University, Poznan, Poland, to begin in spring 2020.

The first postdoc will join a group seeking to characterize the chromatin factors controlling meiotic crossover (CO) in plant genomes. In the project we are applying a novel method for high resolution crossover mapping (>20 COs per 1kb), which is based on recombinant sorting. This method was only recently developed in our lab. Different chromatin states will be tested for their direct influence on CO formation in the selected regions. This will be achieved with the use of dCas9-targeted chromatin modifiers.

The second postdoc will investigate the mechanisms underlying first steps in meiotic recombination in plants, especially the formation of double strand breaks (DSBs). This will be done with a special focus on proteins controlling DSB formation, including ATM, ATR and RAD17 and in different contexts of sequence heterozygosity. Furthermore, we will try to understand how information on heterology between the invading strand and homologous chromosome is gathered and how it affects crossover formation.

The positions do not involve teaching duties however the researchers are expected to assist in training of undergraduate students.

The successful candidates will have PhD degree in biology, genetics or related field and a strong publication record. Candidates with a good background and hand-on experience on Arabidopsis molecular genetics, CRISPR/Cas9, NGS and/or ChIP-seq are encouraged to apply. Both projects would significantly benefit from applying Arabidopsis meiotic cytology, therefore this expertise is considered an advantage.

Please submit the following documents with your application:

- CV which gives an overview of the academic/education history
- Letter of motivation
- Names and contact information of at least two academic referees
- Candidate’s consent to the processing of his or her personal data by the Adam Mickiewicz University, Poznan

Application deadline: 15.02.2020

Contact: Dr Piotr A. Ziolkowski, tel. +48 61 829 59 66, pzio@amu.edu.pl

http://dgb.amu.edu.pl