



JOB OFFER

Position in the project:	PhD student position
Scientific discipline:	Plant molecular genetics
Job type (employment contract/stipend):	stipend
Number of job offers:	1
Remuneration/stipend amount/month ("X0 000 PLN of full remuneration cost, i.e. expected net salary at X 000 PLN"):	4 000 PLN
Position starts on:	01.12.2018
Maximum period of contract/stipend agreement:	36 months
Institution:	Department of Genome Biology, Adam Mickiewicz University in Poznan
Project leader:	Piotr A. Ziolkowski, PhD
Project title:	Identification of chromatin factors affecting meiotic crossover formation in plants Project is carried out within the TEAM programme of the Foundation for Polish Science
Project description:	Meiotic crossover is a fundamental process that unlocks and generates genetic diversity and is therefore an important substrate for crop breeding. In this proposal, we seek to characterize the chromatin factors controlling meiotic crossover in plant genomes. First, we will develop a new approach which will allow us to study selected crossover hotspots in Arabidopsis with high resolution. This will be based on recombinant seed sorting with fluorescent reporters and successive sequencing of crossover-containing intervals. Next, we will directly test effects of two types of chromatin modification on crossover distribution: histone H3 trimethylation at lysine 4 (H3K4me3), and histone H4 acetylation. For this purpose, we will target histone modifying enzymes to crossover hotspots within our intervals by CRISPR/dCas9 system. This project will lead to new discoveries on the crossover control and will pave a way to generate artificial recombination hotspots for modern plant breeding.
Key responsibilities include:	<ol style="list-style-type: none">1. Construction of new Arabidopsis fluorescent reporter lines for crossover assessment2. Developing of recombinant seed sorting approach3. Adaptation of targeted sequencing assay for fine-scale crossover mapping
Profile of candidates/requirements:	<ol style="list-style-type: none">1. Master's degree in biotechnology or molecular biology2. Experience in state-of-the-art molecular biology techniques including molecular cloning3. Experience in Arabidopsis handling (DNA/RNA extraction, plant crossing, genotyping, Agrobacterium-mediated plant transformation, etc.)

	<ol style="list-style-type: none"> 4. Experience with CRISPR/Cas9 system and flow cytometry 5. Excellent command of English 6. Experience in publishing 7. Motivation to participate in the projects training program 8. Pro-active attitude, good communication skills and ability to work effectively in an interdisciplinary international team
Required documents:	<ol style="list-style-type: none"> 1. Research-based master's degree or equivalent (e.g. diploma) in a subject related to the respective position 2. CV which gives an overview of the academic/education history 3. Letter of motivation 4. Names and contact information of at least two academic referees who could write a letter of recommendation. 5. Candidate's consent to the processing of his or her personal data by the Adam Mickiewicz University in Poznan (attached form)
We offer:	<ol style="list-style-type: none"> 1. Excellent job opportunities in attractive and well-equipped research group 2. Comprehensive academic support program including subject-specific courses, soft skill training, research stays abroad, individual career coaching 3. 3-year stipend contract
Please submit the following documents to:	pzio@amu.edu.pl
Application deadline:	28.11.2018
For more details about the position please visit (website/webpage address):	www.dgb.amu.edu.pl
Euraxess job/stipend offer (in case of PhD and postdoc positions):	PhD student in plant molecular genetics (EURAXESS Job Offer id: 351038)

Please include in your offer:

"I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation)."