



## JOB OFFER

Position in the project:	Postdoc position
Scientific discipline:	Plant molecular genetics
Job type (employment contract/stipend):	Fixed term contract
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”):	12 500 PLN (expected net salary at 9 640 PLN)
Position starts on:	01.06.2021
Maximum period of contract/stipend agreement:	20 months
Institution:	Department of Genome Biology, Adam Mickiewicz University in Poznań
Project leader:	Piotr A. Ziolkowski, PhD
Project title:	<b>Identification of chromatin factors affecting meiotic crossover formation in plants</b>  <b>Project is carried out within the TEAM programme of the Foundation for Polish Science</b>
Project description:	The successful applicant will seek to characterize the chromatin factors controlling meiotic crossover (CO) in plant genomes. In the project we will apply a novel NGS-based 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 in different mutant backgrounds. The applicant will also investigate the impact of the chromatin changes on the crossover formation at the chromosomal level, therefore expertise in Arabidopsis meiotic cytology would be valuable (though not absolutely required). 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"><li>1. Testing direct effects of selected chromatin modifications on targeted CO formation in different meiotic mutants</li><li>2. Tag&amp;Run or ChIP-seq based analysis of chromatin states in meiotic tissue</li><li>3. Evaluation of the impact of selected chromatin states on CO distribution with the use of Arabidopsis meiotic cytology</li></ol>
Profile of candidates/requirements:	<ol style="list-style-type: none"><li>1. PhD in genetics or molecular biology</li><li>2. Experience in state-of-the-art molecular biology techniques including molecular cloning</li><li>3. Experience in Arabidopsis handling (DNA/RNA extraction, plant crossing, genotyping, Agrobacterium-mediated plant transformation, etc.)</li><li>4. Experience with ChIP, Cut&amp;Tag or Tag&amp;Run is desirable</li><li>5. Expertise in Arabidopsis meiotic cytology would be an advantage</li></ol>

	<ol style="list-style-type: none"> <li>6. Excellent command of English</li> <li>7. Pro-active attitude, good communication skills and ability to work effectively in an interdisciplinary international team</li> </ol>
Required documents:	<ol style="list-style-type: none"> <li>1. CV which gives an overview of the academic/education history</li> <li>2. Letter of motivation</li> <li>3. Names and contact information of at least two academic referees</li> <li>4. Candidate's consent to the processing of his or her personal data by the Adam Mickiewicz University in Poznan (attached form)</li> </ol>
We offer:	<ol style="list-style-type: none"> <li>1. Very attractive salary, especially when living costs in Poland are considered</li> <li>2. Excellent job opportunity in attractive and well-equipped research group</li> <li>3. Access to newly developed methodology and cutting-edge technologies</li> </ol>
Please submit the following documents to:	pzio@amu.edu.pl
Application deadline:	15.05.2021
For more details about the position please visit (website/webpage address):	<a href="http://www.dgb.amu.edu.pl">www.dgb.amu.edu.pl</a>

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)."