

JOB OFFER

Position in the project:	Post-doc
Scientific discipline:	Immunology, veterinary oncology, molecular biology, bioinformatic
Job type (employment contract/stipend):	Employment 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”):	12 000 PLN/month full remuneration cost including health insurance (approximate net salary after tax 7 000 PLN/month)
Position starts on:	1 st of October 2019
Maximum period of contract/stipend agreement:	12 months (possibility of extension under project extension)
Institution:	Department of Physiological Sciences, Faculty of Veterinary Medicine, Warsaw University of Life Sciences
Project leader:	Dr Kinga Majchrzak
Project title:	<i>Modification of signaling pathways of canine Th17 lymphocytes subset to improve adoptive cellular immunotherapy for humans</i> Project is carried out within the “First Team” programme of the Foundation for Polish Science
Project description:	<p>Immunotherapy is a breakthrough in the treatment of many types of cancer. One of the methods used in immunotherapy is adoptive cell transfer. This therapy involves isolation of T lymphocytes, expanding them to billions of cells and modifications <i>ex vivo</i> in order to infuse them back into the cardiovascular system of an oncological patient.</p> <p>The project concerns the first two phases – isolation of T lymphocyte, their modification and assessment in the laboratory their therapeutic effectiveness on the canine model. The research focuses on T helper cells type 17 (Th17) as it was shown that they possess extraordinary potential to eradicate malignant skin cancer - melanoma – in the mouse model. The aim of the project is to explore the role and cooperation of two intracellular signaling pathways in T lymphocytes isolated from peripheral blood of dogs and in tumor infiltrating lymphocytes (TILs) from canine melanoma that will be programmed for the Th17 phenotype. Modification of signaling pathways will improve the protocols of lymphocyte expansion for adoptive immunotherapy for humans.</p>
Key responsibilities include:	<p>Research tasks:</p> <ol style="list-style-type: none"> 1) Planning and performing a microarray analysis of canine Th17 lymphocytes primed with signaling pathways inhibitors (RNA isolation, Real-time PCR, microarray experiments including biostatistical analysis). 2) Isolation and culture of canine tumor infiltrating lymphocytes (TILs) and analysis of their anticancer activity <i>in vitro</i> (flow cytometry, Western blot, ELISA) 3) Culturing canine melanoma cells in 2D and 3D culture (fluorescence microscopy) <p>Other responsibilities:</p>

	<ol style="list-style-type: none"> 1) Regular reporting research progress and presenting results at laboratory group meetings and conferences 2) Contribution to the efficient functioning of the lab including necessary administrative and organizational tasks.
Profile of candidates/requirements:	<ol style="list-style-type: none"> 1. PhD degree (completed in 2014 or later) in either biotechnology/ biology/chemistry/immunology/veterinary/medicine or related discipline with very good grades 2. Documented scientific achievements in the form of scientific publications in international peer-reviewed journals (at least four scientific monographs or scientific publications); Directing or submitting a research project to the research funding institutions 3. Motivation for scientific development, curiosity, ability of solving problems, ability and willing to work in a team and in collaborative projects 4. Experience in at least 2 of the following research areas: microarray analysis, bioinformatic, biostatistical analysis, genomics, 3D cell culture, fluorescence microscopy, lymphocytes activation and expansion, primary cancer cells culture. 5. Preferred experience in microarray experiments and bioinformatics 6. Very good English language skills (written and oral) as required for scientific environment
Required documents:	<ol style="list-style-type: none"> 1. CV including a list of publications, description of technical skills, research trainings, patents, participation in or managing of research projects, as well as other relevant experience 2. Cover Letter. 3. Photocopy of the PhD certificate. 4. At least 2 reference letters, including an opinion from the PhD supervisor. 5. A one-page summary of research interests and experience including information about the total number of citations and description of the most important scientific achievement.
We offer:	<ol style="list-style-type: none"> 1. Professional development in a field of immunotherapy and access to well-equipped facilities (Laboratory of functional genomics and animal transcriptomics, Next-generation sequencing, Microarray system; Metabolomic laboratory; FACS Sorter Aria II, Cell culture laboratories, Confocal microscope, etc.) 2. Possibility of short-time research visit at Medical University of South Carolina, Charleston, USA 3. Scientific autonomy within the project and option to co-supervise a PhD student recruited to the project. 4. Covering the costs of attendance in training and international conferences
Please submit the following documents to:	office_first_team@sggw.pl with the title: "Recruitment Post-doc 2019"
Application deadline:	4 th of September 2019 (interviews with selected candidates 12-13 September 2019)
For more details about the position please visit (website/webpage address):	http://www.immun-vet-lab-majchrzak.com/1_7_join-us.html

Euraxess job/stipend offer (in case of PhD
and postdoc positions):

<https://euraxess.ec.europa.eu/jobs/424468>

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 Personal Data Protection Act as of 29 August 1997, consolidated text: Journal of Laws 2016, item 922 as amended.”