

JOB OFFER

Position in the project:	PhD Student
Scientific discipline:	Molecular and Cell Biology of Stem Cells
Job type (employment contract/stipend):	Scholarship
Number of job offers:	2
Remuneration/stipend amount/month (<i>"X0 000 PLN of full remuneration cost, i.e. expected net salary at X 000 PLN"</i>):	up to 4000 PLN/month
Position starts on:	2020-04-01
Maximum period of contract/stipend agreement:	9
Institution:	Centre of New Technologies, University of Warsaw
Project leader:	Krzysztof Kobiela, M.D., Ph.D.
Project title:	Reciprocal interaction between hair follicle Stem Cells and surrounding niche during skin and hair regeneration niche during skin and hair regeneration
Project description:	The main goal of the project is to investigate the behavior of hair follicle stem cells (hfSCs) during stem cells (SCs) quiescence and activation. Currently, my laboratory shed light on how a competitive balance of BMP/WNT signaling regulate hfSCs but there is a gap in our scientific knowledge regarding how BMP/WNT signaling integrate the regulation of different molecular networks in hfSCs during hair cycle. Our long term objective is to understand how this regenerative hair cycling behavior is regulated at the molecular level, and how reciprocal interaction between hfSCs and surrounding niche changes during hair homeostasis and regeneration.
Key responsibilities include:	<ol style="list-style-type: none"> 1. A Ph.D. student will work with genetically modified mice (to obtain a required genetic background with mice crossing, inducing gene activation or ablation in vivo, mice genotyping, and analyzing of mouse phenotypes). 2. A Ph.D. student will be involved in cells isolation from varies tissues predominantly from skin of genetically modified mice. 3. Sorting of stem cells by FACS and preparation of samples for RNA-seq or Chip-seq analysis as well as stem cells culture in vitro. 4. Tissue analysis by immunofluorescent /immunohistochemistry staining and /or in situ hybridization with use of microscope techniques.
Profile of candidates/requirements:	<ol style="list-style-type: none"> 1. M.Sc. in Biology, Biotechnology or M.D. in Medicine 2. Good knowledge of English, 3. Knowledge of Adobe Photoshop, Adobe Illustrator, PowerPoint 4. Team work skills, 5. Experience or knowledge in laboratory work (gel electrophoresis,

	PCR, RT-PCR, q-PCR, DNA/RNA/Protein extraction/purification, DNA cloning, western blot, cryo- and paraffin- sectionings, cell culture, FACS sorting, immunofluorescent /immunohistochemistry staining, in situ hybridization, mouse breeding/numbering/genotyping, some basic mouse surgeries, microscope techniques).
Required documents:	<ol style="list-style-type: none"> 1. Curriculum Vitae (CV) 2. Cover letter, describing Candidate motivation 3. M.Sc. or M.D. certificate 4. One or more letters of recommendation from a scientist who is familiar with the Candidate (submitted directly to email address below) 5. Information on scientific publications, scholarships, prizes and awards or other relevant documents demonstrating the excellence of Candidate 6. A list of attended conferences with titles and authors of presentations 7. A scan of the signed personal data processing agreement (see below).
We offer:	Monthly scholarship approximately 4 000 PLN for 9 months with possible extension. The appointment should start between 1st of April 2020, but not later than 1st of September 2020.
Please submit the following documents to:	Please send e-mail to: k.kobielak@cent.uw.edu.pl (entitle your email "Team Ph.D. student").
Application deadline:	18.03.2020
FNP programme	Project is carried out within the TEAM programme of the Foundation for Polish Science

To allow us to process your data, please include in your application the signed information on the personal data processing, available at: <http://bsp.adm.uw.edu.pl/bsp/druki-i-formularze/>