

JOB OFFER

Position in the project:	PhD Student
Scientific discipline:	biology and cancer
Job type (employment contract/stipend):	Scholarship
Number of job offers:	1
Remuneration/stipend amount/month (<i>"X0 000 PLN of full remuneration cost, i.e. expected net salary at X 000 PLN"</i>):	4000 PLN gross/month
Position starts on:	01.05.2019
Maximum period of contract/stipend agreement:	36 months
Institution:	Centre of New Technologies, University of Warsaw
Project leader:	Agnieszka Kobiela
Project title:	Role of catulin in the regulation of cell-extracellular matrix interactions in tumor invasion and metastasis of head and neck squamous cell carcinoma.
Project description:	<p>Head and neck squamous cell carcinoma (HNSCC) is highly aggressive tumor and despite various treatment options available, HNSCC patients are still faced with a high chance of recurrence and/or metastasis, with a 5-year survival rate of only about 50 percent. Thus understanding the metastatic process is of high importance and is highly significant for the development of novel treatments. Abnormal cell migration and invasion modulated by integrin-mediated interactions between the extracellular matrix (ECM) and the actin cytoskeleton are key components of metastasis. We recently identified that high expression of Rho-GEF binding protein α-catulin correlates with the ability of human squamous cell carcinoma cells to invade and metastasize. We showed that α-Catulin is preferentially expressed at the tumor invasion front and in the invasive streams of cells with minimal expression in the normal oral epithelia. Our in vitro data show that an upregulation of α-catulin expression correlates with the transition of tumor cells from an epithelial to mesenchymal morphology and knockdown of α-catulin in hHNSCC cell lines dramatically decreases the migratory and invasive potential of those cells in vitro and metastatic potential in xenotransplants in vivo. α-catulin deficient cells exhibit defects in actin dynamics, Rho signaling and directional migration. Performed by us transcriptional and biochemical analyses of tumors deficient in α-catulin demonstrate that its ablation prevent tumor cells from invading the surrounding stroma which is accompanied by changes in expression of genes involved in cell migration and invasion. The main goal of the project is to understand molecular mechanism of signal transduction by the catulin-Rho/ROCK downstream from integrins in metastasizing squamous cell carcinoma cells in order to identify novel strategies for HNSCC treatments and prevent cancer cell metastasis.</p>
Key responsibilities include:	Participation in all research planned in the project
Profile of candidates/requirements:	<ul style="list-style-type: none"> • MSc in biology or related fields or MD, • Good knowledge of English,

	<ul style="list-style-type: none"> • Experience or knowledge in laboratory work: gel electrophoresis, PCR, RT-PCR, q-PCR, DNA/RNA/Protein extraction and purification, DNA cloning, lentiviruses, western blot, cryo- and paraffin- sectioning, immunofluorescent and immunohistochemistry staining, microscopy: fluorescent and confocal laser scanning microscopy, mammalian cell culture, FACS sorting, laboratory animals - mice handling, xenograft model, valid mouse handling certificate • Knowledge of Adobe Photoshop, Adobe Illustrator, PowerPoint, • Team work skills.
Required documents:	<ul style="list-style-type: none"> • Curriculum Vitae (CV) • Cover letter, describing Candidate motivation • MSc certificate • One or more letters of recommendation from a scientist who is familiar with the Candidate (submitted directly to email address below) • Information on scientific publications, scholarships, prizes and awards or other relevant documents demonstrating the excellence of Candidate • A list of attended conferences with titles and authors of presentations • A personal data processing agreement
We offer:	Stimulating work environment in friendly group of researcher
Please submit the following documents to:	Please apply to: a.kobielak@cent.uw.edu.pl (entitle your email "PhD POSITION").
Application deadline:	March 31th, 2019

To allow us to process your data, please include the following statement in your application:

"I hereby consent to have my personal data processed by the University of Warsaw with its registered office at ul. Krakowskie Przedmieście 26/28, 00-927 Warszawa for the purpose of carrying out a recruitment process and selecting an employee and concluding a contract for employment at the University of Warsaw. I have been informed of my rights and duties. I understand that provision of my personal data is voluntary."

In accordance with Article 13 of 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 – general regulation on data protection (Official Journal of the EU L 119/1 of 4 May 2016) the University of Warsaw informs that:

1. The administrator of your personal data is the University of Warsaw with its registered office at Krakowskie Przedmieście 26/28, 00-927 Warszawa, e-mail: iod@adm.uw.edu.pl;
2. The Administrator has designated the Data Protection Officer who supervises the processing of personal data, and who can be contacted via the following e-mail address: iod@adm.uw.edu.pl;
3. Your personal data will be processed for the purpose of carrying out a recruitment process and selecting an employee and concluding a contract for employment at the University of Warsaw;

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4. The provided data will be processed pursuant to Article 22(1) § 1 of the Act of 26 June 1974 Labour Code (uniformed text: Dz.U. of 2018, item 917) and your consent for processing of personal data;

 5. Provision of data in the scope stipulated in the Labour Code is mandatory (this is: name(s) and surname, parents' first names, date of birth, address of residence, correspondence address, education, previous employment);
 6. The remaining data are processed according to your consent for processing of personal data;
 7. The data will not be shared with any external entities, except for the cases provided for by law;
 8. The data will be stored until you withdraw your consent for processing of personal data;
 9. You have the right to access your personal data, rectify, erase, restrict its processing and to withdraw the consent at any time – the withdrawal of consent to processing data should be done in written form, acceptably by e-mail sent to hr@cent.uw.edu.pl;
 10. You have the right to lodge a complaint to the President of the Office for the Protection of Personal Data;
 11. Your application will be archived and stored for auditing purposes;
 12. The name of the selected candidate/s will be made public on the CeNT UW website in accordance with the requirements of the funding agency.