CENT-37-2022

Director of Centre of New Technologies of the University of Warsaw, with the Project Leader, announce opening of the competition for the position of Student in the Laboratory of Chemical Biology – Centre of New Technologies of the University of Warsaw.

JOB OFFER

Position in the project:	Student
Laboratory:	Laboratory of Chemical Biology
Scientific discipline:	Chemical sciences, chemical biology
Keywords:	Nucleotide, inhibitors, mRNA 5' cap, therapeutic mRNA
Job type (employment contract/stipend):	stipend
Part-time/full-time:	part-time
Number of job offers:	1
Remuneration/stipend amount/month:	1000 PLN gross gross
Position starts on:	1st October 2022
Maximum period of contract/stipend agreement:	12 months
Institution:	Centre of New Technologies, University of Warsaw
Project leader:	Prof. Jacek Jemielity
Project title:	mRNA 5' end methylation status: towards deeper understanding of biological role and identification of synthetic mimics
Competition type:	OPUS 17
Financing institution:	National Science Centre
Project description:	The aim of the project is to understand how the methylation status at the 5’ end of mRNA cap structure and the few neighboring nucleotides influences biochemical properties of mRNA such as translation, turnover, and immunogenicity. These properties are of crucial importance for applicability of mRNA in gene therapies, therefore this knowledge can be used for tailoring structure of mRNA 5’ end to various therapeutic applications. The studies will cover the modifications within ribose of the first (cap 1) and the second transcribed nucleotide (cap 2) as well as methylation of the bases including 6-methyl adenosine (m6A) and 5-methylcytosine.
Key responsibilities include:	Synthesis of nucleotide subunits for cap analogs and oligonucleotide preparation.
Profile of candidates/requirements:	1. Enrolled as a student of first cycle studies or second cycle studies conducted in a higher education institution on the

	territory of Poland, in biology, chemistry, physics or related discipline. 2. Great communication skills and a passion for life sciences 3. Strong hands-on experience in organic chemistry techniques, with working knowledge of bioorganic compounds synthesis, purification and identification 4. Practical experience with NMR, MS and HPLC support, NMR data analysis and graphic software is a big plus
Required documents:	1. Cover letter 2. Current curriculum vitae 3. Copy of document confirming the student status 4. Transcript of studies record 5. Signed information on the personal data processing 6. Publications and conference presentations list 7. Contact details (phone numbers and e-mails) for previous research supervisor or other research associates
We offer:	Stimulating and friendly work environment
Please submit the following documents to:	j.jemielity@cent.uw.edu.pl
Application deadline:	19.08.2022
Date of announcing the results:	02.09.2022
Method of notification about the results:	e-mail