

FORM FOR EMPLOYERS

INSTITUTION The International Institute of Molecular Mechanisms and Machines (IMol), Polish Academy of Sciences,

CITY Warsaw

POSITION Postdoctoral researcher

DISCIPLINE Biology

POSTED 16.08.2021

EXPIRES 5.09.2021

WEBSITE <http://www.imol.institute/>

KEY WORDS Biology IMol Postdoc Postdoctoral

DESCRIPTION (field, expectations, comments):

A few words about the research group:

The International Institute of Molecular Mechanisms and Machines (IMol), Polish Academy of Sciences, was constituted in December 2020, in partnership with University Medical Center Göttingen, Germany.

IMol has been established to conduct scientific research and provide training in the fields of biological, chemical, medical, biotechnological, bioinformatics, biophysical, pharmacological, and similar sciences, in the international environment conducive to collaborative efforts, research and development interactions with biotechnological industry, and wide dissemination of our results.

Laboratory of Mitochondrial Biogenesis led by Prof. Agnieszka Chacińska is a research group with an excellent publication record in molecular cell biology. We are interested in fundamental cellular mechanisms in physiology as well as in pathology and ageing. Our research is focused on mechanisms of protein import to mitochondria and on the cellular response to dysfunction of these mechanisms. We use diverse model systems such as human cells, yeast, fish *Danio rerio* and worm *Caenorhabditis elegans*.

We aim at the development of solutions that will help everyone on this planet live a safer life.

We offer:

- Work in an active team in an excellent scientific environment
- Access to the state-of-the-art equipment and facilities
- Participation in courses and conferences
- Comprehensive training in biochemistry, cell and molecular biology techniques

Please apply by sending required documents:

- Motivation letter;
- CV;
- A list of publications and conferences attended;
- One letter of support from an academic supervisor.

to remedy@imol.institute with subject: "Postdoc position in OPUS 18 Prof. A Chacińska"

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 International Institute of Molecular Mechanisms and Machines Polish Academy of Sciences, with its registered office: Smetany 2, 00-783 Warszawa for the purpose of carrying out a recruitment process and I Agree for a transfer of provided data to any entity responsible for the implementation of project OPUS

18 Prof. A Chacińska. I have been informed of my rights and duties. I understand that provision of my personal data is voluntary.”

Project leader: Prof. Agnieszka Chacińska, PhD

Project title: “Molecular mechanisms modulating the function of UCH-L1 deubiquitinase in human mitochondria”

Project description:

Ubiquitin Proteasome System (UPS) is involved in quality control of mitochondrial proteome. Ubiquitin carboxyl-terminal hydrolase isozyme L1 (UCH-L1), a part of the UPS, is associated with neurodegeneration in Parkinson and Alzheimer diseases, which also share an involvement of mitochondria in their etiology. The aim of this project is to explore molecular mechanisms of UCH-L1 function as well as its implication in the mitochondria linked neurodegeneration.

Number of posts: 2

Requirements:

- Doctoral degree in molecular biology, genetics or biochemistry;
- Strong publication record and experimental training;
- Ability to work both independently and as a part of a team;
- Ability to communicate fluently in English (written and spoken);
- Strong motivation to work and pursue scientific questions, creativity and analytical thinking;
- Research experience in another area of molecular biology will be advantageous

Description of your tasks:

- Performing experiments using biochemical, cell and molecular biology techniques (independently and in collaboration with other team members)
- Designing experiments and analysing data
- Writing manuscripts
- Participation in supervision of MSc and PhD students
- Participation in preparation of grant applications
- Active participation in lab meetings, scientific seminars and conferences

Type of contract: full time, fixed time contract of employment, 48 months, 10k. pln total cost (ca. 5.950 net)/month