

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 17 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

17 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: “Effects of proteasome inhibition on mitochondrial homeostasis.”

Project description:

Great majority of proteins that build mitochondria are encoded in the nuclear genome, synthesized by cytosolic ribosomes in precursor forms and actively transported to their target location in mitochondria. Recent studies, with the major contribution of our group, showed that the proteasome plays an important role in the quality control of proteins transported to mitochondria and that proteasome inhibitors have therapeutic potential against some mitochondrial diseases. The aim of this project is to explore the influence of proteasomal inhibition on fully functional and defective mitochondria.

Positions: 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, 36 months, 10k. pln total cost (ca. 5.950 net)/month