

TOBeATPAIN is a MSCA Innovative Training Network, which offers a research-based training programme for 11 young scientists on how to investigate the underlying mechanisms of pathological pain in neurodegenerative diseases, musculoskeletal conditions and peripheral neuropathies, with the ultimate aim to delineate novel therapeutic strategies.

TOBeATPAIN combines the expertise of 5 leading academic institutions, 2 pharmaceutical companies and 1 SME, together with 1 non-profit research charity and 2 SMEs, from 4 European countries. As part of the MSCA ITN scheme, it is expected that the candidate will register for and work towards a PhD degree, with the aim of completing this within the fixed term of appointment. The candidate will also be expected to go on secondment at one or more of TOBeATPAIN institutions, and to participate to the Network-wide training program.



A position on Assessment of medical marijuana bioactive substances in a mouse model of neuropathic pain has become available. This studentship is part of the TOBeATPAIN Project supervised by Bionorica research in Innsbruck/Austria and Prof. M. Kress at medical University of Innsbruck/Austria.

The project will evaluate the bioavailability of medical marijuana bioactive substances (MMBS) of cannabis sativa plant extracts in peripheral blood, DRG, spinal cord and brain (LC-MS), characterise the analgesic action of MMBS preparations in the spared nerve injured (SNI) mouse model for neuropathic pain and correlate with analgesic and anti-inflammatory effects. The candidate will compare MMBS treated versus non-treated neuropathic mice regarding cytokine profiles (ELISA), and microglia and macrophage activity in DRG, spinal cord and brain sections (IHC and FACS).

The position is full time and fixed term for a period of 3 years.

Requirements

H2020 EU funding imposes strict eligibility criteria:

- At the time of the appointment applicants must not have resided or carried out her/his main activity (work, studies, etc.) in the country of the host institute for more than 12 months in the 3 years immediately before appointment under the project.
- Applicants shall also be in the first four years of her/his research career at the time of appointment by the host organisation and have not been awarded a doctoral degree.
- For more information on Marie Skłodowska-Curie Innovative Training Networks (ITNs), please see: <http://ec.europa.eu/mariecurieactions>
- As part of the MSCA ITN scheme, it is expected that the candidate will register and for and work towards a PhD degree, with the aim of completing this within the fixed term of her/his appointment. S/he will also be expected to work closely with the other Early Stage Researchers, at your own and at other participating institutions; to go on secondment at one or more of the TOBeATPAIN's institutions, and to participate in the Network-wide training program. The candidate is expected to

enroll into the Neuroscience PhD programme at Medical University Innsbruck. For more information see: <https://phd-school.i-med.ac.at/>

Main duties & Responsibilities

- Contribute towards the programme of TOBeATPAIN, which has been conceived to examine the neuroinflammation associated with pain in peripheral and central diseases and to identify the critical non-neuronal cellular players and mediators involved in pathological pain signaling under the general supervision of Prof. M. Malcangio (Kings College London)
- Conduct experimental research as required by the research programme.
- Collect data and undertake any appropriate analysis of data as requested. Provide and prepare data essential to the Supervisor in preparing publications and grant progress reports and, as appropriate, to jointly author with the Supervisor and other collaborators.
- Maintain appropriate databases, accurate written and computerised records and ensure that these records are stored in a secure place,
- Maintain confidentiality of all electronically stored personal data in line with the provisions of the Data Protection Act.
- Undertake literature and database searches for the research project, interpret and present the findings of the literature searches and advise the research teams as required by the Supervisor.
- Maintain accurate and up to date records

Attitude & Disposition

- Strong background in molecular biology (qPCR, cloning, optogenetics, heterologous gene expression, in situ hybridization), viral vectors, non-coding RNAs and interest or experience in bioinformatic analyses of complex data sets
- Flexible and co-operative, effective team working and good communication skills.
- Analytical skills with enquiring, critical approach to work, computer literacy
- Self-motivated and hardworking
- Background in analytical techniques (HPLC, mass spectrometry) is an asset

Strong emphasis on gender equality is placed and the increase of the proportional representation of women in this field is intended. Thus applications from female scientists are welcome; suitably qualified women will be given preferential consideration .

Application deadline is 15th of November 2018!

Start of employment is February 2019!

Please submit your full application (including full c.v., copies of certificates, motivational letter and career goals) with two letters of reference.

**BIONORICA research GmbH
Innsbruck/Austria**

