EU Marie-Curie Initial Training Network

TRANSPOL

A European Research Training Network at the interface of Cell/Molecular Biology and Membrane Physics

Topic: Transport and Signalling mechanism in Polarized Cells

Call: FP7-PEOPLE-ITN-210
Proposal Number: 264399

Project13, title:

The roles of Ras or nitric oxide in protection from Parkinson’s disease related LRRK2-induced neuronal degeneration: Effects on neuronal polarity

Type of position: Early Stage Researcher (ESR)/ PhD position

Reference Code: TRANSPOL-P13

Eligibility: To this position applies a mobility rule. The respective candidate must not have worked for more than 12 months in Germany within the last three years. Furthermore, the candidate needs to be in his/her first four years of his/her research career. The four years are counted from the date a degree was obtained which formally entitles to embark on a doctorate.

Starting date: The position is open by 1st February 2011

Duration: 36 months

Salary: According to the Marie Curie-ITN rules: around 36000 Euro/year plus monthly mobility allowance of 500 Euro/month

Short description: This project focuses on the role of the small G-protein Ras, for which we have shown that it protects from neuronal degeneration in models of Parkinson’s disease. Furthermore, Ras stimulates neuritogenesis and axon-like structures, in vivo. The goals of this project are to test 1.) whether activated Ras (considered as an “intracellular anti-apoptotic protein”) protects from toxic mutant (R1441C) leucine repeat rich kinase 2 (LRRK2)-induced neuronal death. 2) if toxic LRRK mutants interfere with Ras-induced neuronal polarization (axon formation). These experiments will be performed together with Gillardon/ Boehringer and SILANTES/ Munich (for SILAC approach). The project will also analyze the effects of nitric oxide NO on membrane tension (collaboration with Roux), trafficking (collaboration with Erdmann) and synapse formation.
Job Requirements: Experimental background in cell biology, biochemistry, molecular biology methods. Experience in proteome mass spectrometric analysis is welcome but not essential.

Host Institute: Department of Biochemistry II, Molecular Neurobiochemistry Ruhr-University Bochum 44780 Bochum Germany

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How to apply: please send the following documents via e-mail to the TRANSPOL coordinating office: transpol@rub.de.
- Clearly indicate the project you are applying for by referring to the Reference code of this job offer
- Description of your Master thesis or of other research experience and publications, if available
- Letter of motivation (research interests, reasons for applying to this program and project, respectively)
- A complete CV
- Certified copies of University Diploma or Master certificates
- Proof of proficiency in English language
- Two letters of recommendations

Deadline for application: April 29th

For further information: Please visit http://www.ruhr-uni-bochum.de/mol-neurobio/RUB_Design/Biochemie2en.htm or contact Prof. Dr. R. Heumann: rolf.heumann@rub.de Alternatively, contact the TRANSPOL coordinating office: transpol@rub.de

Key references:
