



## 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

**Project title:** The role of the protein tyrosine phosphatase PTP-BL in polarized protein trafficking and Interferon signaling

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

**Reference Code:** TRANSPOL-P9

**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:** June 1<sup>st</sup>, 2011 (*up to you but must be not later than November 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:** The protein tyrosine phosphatase PTP-BL is a tumor suppressor protein involved in intracellular membrane trafficking. We have recently identified several proteins as novel PTP-BL interacting proteins. These proteins are sorting nexin 9 and EpsinR (Enthoprotein), two proteins described to function in endocytosis and retrograde transport to the golgi-apparatus, respectively. The aim of this project is 1.) to gain insight into the significance of these interactions and their relation to receptor trafficking. For this purpose we will apply and develop biochemical and fluorescence based receptor trafficking assays using polarized MDCK and primary human epithelial cells. 2.) Recently PTP-BL has been identified to be a regulator of the interferon pathway by dephosphorylating STAT3 proteins. As a second goal this project

will analyze a potential crosstalk between trafficking effects and signalling effects of PTP-BL on the interferon pathway.

**Job**

**Requirements:** Experimental background in cell biology, biochemistry or biophysics.

**Host Institute:** Department of Biochemistry II  
Ruhr-University Bochum  
44780 Bochum  
Germany

**Supervisor:** Dr. Kai Erdmann  
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**How to apply:**

please send the following documents via e-mail to the TRANSPOL coordinating office: [transpol@rub.de](mailto:transpol@rub.de).

- Clearly indicate the project you are applying for by referring to the Reference code of this job offer
- 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 contact the supervisor of this project or directly the TRANSPOL coordinating office: [transpol@rub.de](mailto:transpol@rub.de)