

Certificate of Completion Campus Hungary Placement

Details of the student

Name of student (surname, first name): Pethő Zoltán Dénes

Registration number: B2/1SZ/12585

Address (house number, street name, postcode, city, country): 112, Poroszlai ut, 4032, Debrecen, Hungary

Nationality: Hungarian

Sending Institution: University of Debrecen, Department of Biophysics and Cell Biology

Subject area: Experimental Medicine

Dates of the completed placement period (first and last day of activity)

First day (dd.mm.yyyy): 15.09.2014

Last day (dd.mm.yyyy): 05.02.2015

Number of working hours per week (Minimum 12 hours per week required.): 30 hours

Working language: English

Details of the host organisation/company

Name of the organisation/company: Baylor College of Medicine, Molecular Physiology and Biophysics Faculty

Website: <https://www.bcm.edu/departments/molecular-physiology-and-biophysics/>

Address: One Baylor Plaza, Mail Stop BCM335, Houston, Texas 77030

City: Houston, Texas

Country: United States of America

Name of contact person: Christine Beeton Ph.D.

Title: Associate Professor

E-mail: beeton@bcm.edu

Phone number: +1/ 713-798-4951

Brief description of the completed training program:

During this training period the PhD student explored a new field in his research program, which directly connects to his future thesis research. This training introduced various novel materials and methods used in our laboratories in the Molecular Physiology and Biophysics. The student had the opportunity to participate in translational research focused on chronic inflammatory diseases. This research involved diverse techniques, such as electrophysiology, tissue culture, immunoassays, and work with rodent models of autoimmune diseases. Furthermore, as the student advanced with the research in our department, he became acquainted with new ideas regarding his future studies in the field of experimental medicine, ideas he will be able to present to his peers for feedback. The almost five-month duration of his training program was crucial for getting new insights in both the theoretical and practical fields of research. Moreover this research program was also clearly beneficial for enhancing the communication between our workgroups and universities, and thus developing future collaborations.

Description of skills and competences acquired during the placement period

1. Activities/tasks carried out

Designing and performing experiments detailed below, data analysis and interpretation, creating scientific poster presentation and abstract, writing scientific manuscript

2. Job-related skills and competences acquired

Acquired experimental techniques: RT-qPCR, western Blot, immunocytochemistry, siRNA transfection, gel zymography, transwell invasion assay
Acquired competences in patch clamp electrophysiology and flow cytometry.

3. Language skills and competences acquired (if not included under 'Job-related skills and competences')

Practiced both basic and scientific English language (both understanding, oral and writing) skills.

4. Computer skills and competences acquired (if not included under 'Job-related skills and competences')

Trained in using data acquisition, evaluation and presentation softwares needed for scientific research, e.g. GraphPad Prism, IgorPro, ImageJ, FlowJo, Vii7 software, Qcapture, Patchmaster, FACSDiva

5. Organisational skills and competences acquired (if not included under 'Job-related skills and competences')

Administration and coordination of conducting scientific research, decision making and creative skills in designing experiments

6. Social skills and competences acquired (if not included under 'Job-related skills and competences')

Flexibility and problem solving skills, practiced conversational skills

7. Other skills and competences acquired

8. Number of awarded ECTS credits (if any):0

Hereby I certify, that the above mentioned student has successfully completed his/her training period at our organisation/company.

signature of organization/company representative

02/05/2015
Signed on (date) 05.02.2015 in Houston

place of organization/company seal

signature of student

Signed on (date) 05.02 in Houston