



Invitation Letter for Campus Hungary Placement

Details of the student

Name of student (surname, first name): **Borsos, Máté**

Sending Institution: **ELTE TTK**

Subject area: **Biology**

Planned dates of the placement period (including days of travelling)

Arrival (dd.mm.yyyy): **04.02.2013**

Departure (dd.mm.yyyy): **31.05.2013**

Number of working hours per week (minimum 12 hours per week required): **40**

Working language: **English**

Details of the host organisation/company

Name of the organisation/company: **Institute of Molecular Biotechnology of the Austrian Academy of Sciences (IMBA)**

Website: **<http://www.imba.oeaw.ac.at/>**

Address: **Dr. Bohr-Gasse 3, 1030**

City: **Vienna**

Country: **Austria**

Name of contact person: **Kikue Tachibana-Konwalski**

Title: **Ph.D., Group Leader**

E-mail: **kikue.tachibana@imba.oeaw.ac.at**

Phone number: **++43 1790444670**

Brief description of the proposed training program:

A special feature of female germ cells is that they are generated in the embryo but then remain arrested until the first meiotic division is triggered at ovulation, which is months (mouse) or years (human) later. This poses a challenge for the cohesin complex, which is essential for sister chromatid cohesion and faithful chromosome segregation in meiosis. We have generated a novel cohesin mouse mutant showing weakened sister chromatid cohesion resulting in aneuploid eggs and infertility. The project is to investigate maternal age-dependent cohesin deterioration in this new mouse model that mimicks aspects of premature ovarian failure. The student will be trained in a variety of genetic and cell biological methods, including: 1) germ cell isolation and culture, 2) chromosome spreads and immunofluorescence microscopy, 3) immunocytochemistry and 3D image reconstruction analysis, and 4) microinjection of mRNA encoding reporter constructs such as H2B-mCherry to track chromosome movements during meiosis and quantitative 4D confocal live-cell imaging.

Hereby I certify, that the above proposed training program is approved. Upon successful application to Campus Hungary Placement, we are willing to receive the above mentioned student to complete his/her training period at our organisation/company. Upon completion of the planned training program we will issue a Certificate to the student. If his/her planned activity is rewarded by ECTS credits by our organisation/company, we will also issue a Transcript of Records to the student.


signature of organization/company representative

Signed on (date) Nov. 20, 2012 at Vienna


signature of student

Signed on (date) Budapest at 20.11.2012

IMBA - Institut für Molekulare
Biotechnologie GmbH
place of seal
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