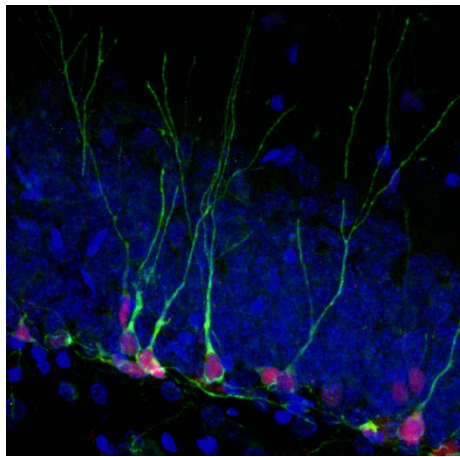


PMU Training Course

**Analysis of neural stem/progenitor cell
proliferation and fate**

June 23-26, 2014



Adult neurogenesis in the dentate gyrus of the hippocampus
(P. ROTHENEICHNER, L. AIGNER, S. COUILLARD-DESPRES)

Institute of Molecular Regenerative Medicine &
Institute of Experimental Neuroregeneration
Spinal Cord Injury and Tissue Regeneration Center
Salzburg
(SCI-TReCS)

Paracelsus Medical University (PMU)

Salzburg, Austria



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Training objectives

Teaching of immunohistochemical techniques for the study of neural stem/progenitor cells (NPCs) proliferation and fate *in vivo* and *in vitro*, including the preparation and maintenance of neural progenitor cultures and the analysis of relevant parameters.

Duration

4 days (28 hours) in small groups (max. 10 participants); 25% lectures, 75% practical work

Lectures content and practical work

- *in vivo* imaging of neurogenesis using bioluminescence imaging
- *in vivo* labeling and immunohistochemical detection of proliferating cells using BrdU
- survival and cell fate analyses using immunohistochemistry
- survival and cell fate analyses in transgenic mice using tamoxifen-activable Cre recombinase and fluorescent reporter systems
- isolation and culture of NPCs

Credits

For successful course participation 2 ECTS points can be given.

Prerequisites

Students (starting from Bachelor level) are especially invited.
Experience in basic cell culture techniques is advantageous.

Course leaders

Ludwig AIGNER, Francisco J. RIVERA, Barbara KLEIN

Contact: barbara.klein@pmu.ac.at

Scientific advisors

Ludwig AIGNER, Sebastien COUILLARD-DESPRES, Francisco J. RIVERA, Sebastien ILLES, Julia MARSCHALLINGER, Barbara KLEIN

Venue

Institute of Molecular Regenerative Medicine & Institute of Experimental Neuroregeneration from the Spinal Cord Injury and Tissue Regeneration Center Salzburg (SCI-TReCS), Paracelsus Medical University, Strubergasse 21, 5020 Salzburg, Austria



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This training course is organized in cooperation with

- **EU FP7 project INMiND**
– Imaging of Neuroinflammation in Neurodegenerative Diseases
www.uni-muenster.de/INMiND
- **FWF Special Research Program (SFB) F44**
Cell Signaling in Chronic CNS Disorders
www.uibk.ac.at/pharmazie/pharmakologie/sfb-f44
- **ANA – Austrian Neuroscience Association**
www.austrian-neuroscience.at



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Student travel grants

Travel grants for students up to € 250.- are sponsored by SFB F44 and ANA. Application: Please send (1) your CV (1000 words maximum) and (2) a “personal statement” of research interests, experience and motivation to attend the course (not to exceed 500 words) to Barbara Klein (barbara.klein@pmu.ac.at). Deadline: April 23, 2014

Registration fee

Early bird (until April 23): € 210.- normal / € 110.- reduced (for students & ANA-members)

April 23 – May 23: € 260.- normal / € 160.- reduced (for students & ANA-members)

For registration please contact:

Institute of Molecular Regenerative Medicine, Paracelsus Medical University, Salzburg
Regina Schöberl (Assistant): regina.schoeberl@pmu.ac.at