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## Circuits in Neuroscience

**On** September 24-25, 2014, the opening symposium "Circuits in Neuroscience" was organised. In a lecture hall at the Science Campus Riedberg (less than 500 meters from our Institute), the 350 participants were offered lectures by renowned neuroscientists, including **Christine Holt, Mu-ming Poo, Carla Shatz, Richard Tsien, Daniel Choquet, Valentina Emiliani, Michael Roukes, Daniel Wolpert, Eve Marder, John O'Keefe, Johannes Letzkus, Tatjana Tchumatchenko, Albert Lázlo-Barábasi, Leslie Vosshall, Ernst Bamberg, Winfried Denk, Catharine Dulac** and **Edvard Moser**. In the evening of September 24, we had a great get-together with all participants, including former employees of the Institute, in the new building, with lectures by **Heinz Wässle** and **Wolf Singer** about the pedigrees of the current Directors and important chapters of the Institute's history.

We thank all the speakers at the symposium for celebrating with us, as well as all the participants. Special thanks to benefactors of the symposium, which include **Boehringer Ingelheim Foundation, Friends of the Frankfurt Max Planck Institute for Brain Research, Goethe Graduate Academy, Coherent, Life Technologies** and **Nespresso**.

Website  
[www.brain.mpg.de/openingsymposium](http://www.brain.mpg.de/openingsymposium)

*John O'Keefe and Edvard Moser (here on the photo together with Gilles Laurent, Erin Schuman and SAB Chair Yves Fregnac) received news about the Nobel Prize in Physiology or Medicine 2014 only ten days after being in Frankfurt am Main. Unfortunately, the third 2015 Nobel Prize winner May-Britt Moser was unable to attend our symposium.*





*Two high-school students looking at stained neurons through a microscope*

## Teaching Lab hosts project "Du denkst Zukunft!"

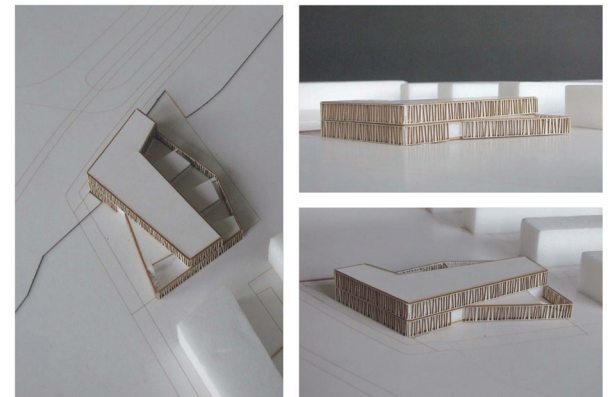
*several* events were organised in the Teaching Lab in the past year. These include the 2014 Girls' Day, classes for IMPRS students on electrophysiology, neurobiology and imaging, as well as demos for Community College.

On October 31, a group of seven high-school students did experiments at the Teaching Lab. These students applied via the project "Du denkst Zukunft!" and learned how to isolate DNA from fruits, stain different parts of cells, and how to cut slices from the hippocampus, a part of the cortex, which is responsible for learning and memory. The practical day at the Institute followed the project days, which focused on Alzheimer's disease, at different local high-schools earlier in 2014.

## Daycare center "Kairos" to be opened in June next year

*together* with the Goethe University, the Max Planck Society is building a new daycare center, called "Kairos-Kita" on Science Campus Riedberg. Pedagogic operator will be the "Gesellschaft zur Förderung betrieblicher und betriebsnaher Kindereinrichtungen e.V."

A total of nine groups for infants and kids from three months to six years of age will be established. 25% of the places are reserved for kids from Frankfurt-Riedberg or for student's kids, while the remaining 75 % will be workplace-related, two thirds for the Goethe University and one third for the Max Planck Society.



*Model of the new MPS/Goethe University daycare center, to be located at Max-von-Laue-Str. 20, Frankfurt am Main (Science Campus Riedberg)*

## Selected recent publications

Kaltezioti, V., Antoniou, D., Stergiopoulos, A., Rozani, I., Rohrer, H., Politis, P.K. (2014). Prox1 regulates olig2 expression to modulate binary fate decisions in spinal cord neurons. *Journal of Neuroscience* 34(47): 15816-31.

Tchumatchenko, T. and Clopath, C. (2014). Oscillations emerging from noise-driven steady state in networks with electrical synapses and subthreshold resonance. *Nature Communications* 5: 5512

Brunet, N., Vinck, M., Bosman, C.A., Singer, W., and Fries, P. (2014) Gamma or no gamma, that is the question. *Trends in Cognitive Sciences* 18(10): 507-509.

Fregnac, Y., and Laurent, G. (2014). Where is the brain in the Human Brain Project?. *Nature* 513: 27-29.

## Friends of the Max Planck Institute for Brain Research

### Moritz Helmstaedter gave a talk at caesar

*with* the caesarium lecture series, the Center of Advanced European Studies and Research (caesar) wants to show the general public how exciting and fascinating science and research can be.

On November 6, 2014, **Moritz Helmstaedter** (since August 2014 Director at our Institute) gave a talk (in German title: "Karten des Denkens: die Vermessung neuronaler Netzwerke") about brain mapping at this lecture series, which was recorded and is now available via Youtube.

More information

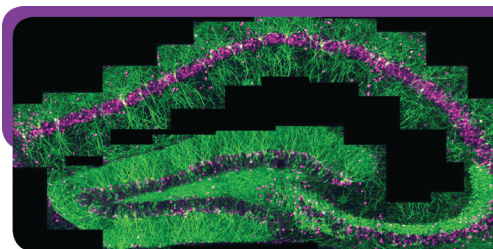
<http://www.caesar.de/caesarium-archiv0.html>

### Our people at the MPI

- 211 Institute's members
  - 50% female and 50% male
  - 51% scientific and 49% support staff
  - overall 20% not from Germany (45% for scientific staff)
  - 25 nationalities
- (November 2014)



*Still from the November 6 lecture by Moritz Helmstaedter at caesar*



Hertie Foundation Lecture  
at the MPI for Brain Research

**Pico Caroni**

**Nov 12, 11 am**

(Friedrich Miescher Institute for  
Biomedical Research, Basel, Switzerland)

Title: "Circuit mechanisms of long-term memory consolidation"

Lecture Hall of the Max Planck Institute for  
Brain Research, Max-von-Laue-Straße 4,  
60438 Frankfurt am Main (Campus Riedberg)

[www.brain.mpg.de/caroni](http://www.brain.mpg.de/caroni)



Gemeinnützige  
Hertie-Stiftung

### First Hertie Foundation Lecture

*on* November 12, 2014, **Pico Caroni** (Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland) gave the first Hertie Foundation Lecture. His inspiring talk about circuit mechanisms for long-term memory consolidation was visited by many interested neuroscientists.

The Association Friends of the Frankfurt Max Planck Institute for Brain Research would like to thank the Hertie Foundation for their generous support.

More information

[www.brain.mpg.de/caroni](http://www.brain.mpg.de/caroni)



Jürgen Lecher Photography

## New generation of IMPRS students

*in* the Fall of 2014, eight new doctoral students of the International Max Planck Research School (IMPRS) for Neural Circuits started their studies. The first six to nine months will consist of a quite intensive education program, which includes rotations in up to two different research labs in Frankfurt and two courses about modern techniques and modern topics in neuroscience. These also include four Master Classes, interactive evening lectures by excellent neuroscientists.

New IMPRS students are **Alessandro Coatti, Bruno del Papa, Bettina Hein, Patrick Jendritza, Liane Klein, Lisa Kochen, Hua-Peng Liaw and Mantian Wang.**

In addition, IMPRS is already recruiting for its next generation of doctoral students starting in 2015. The deadline for the fifth round is January 15, 2015.

More information:

[www.imprs.brain.mpg.de](http://www.imprs.brain.mpg.de)

## 2015 Upcoming Neuroscience Lectures

*(all Lectures start at 11.00 hours at the Institute's Lecture Hall)*

- 14.01.2015 **Ehud Ahissar** (Weizmann Institute of Science, Rehovot, Israel), *Title: "Closed-loop perception: A specific implementation of embodied cognition"*
- 21.01.2015 **Tony Movshon** (New York University, USA), *Title: "Cortical and perceptual processing of visual form"*
- 04.02.2015 **Nigel Emptage** (University of Oxford, UK)
- 18.02.2015 **Neil Burgess** University College London, UK)
- 04.03.2015 **Zoltan Molnar** (University of Oxford, UK)
- 18.03.2015 **Yishi Jin** (UC San Diego, USA)
- 25.03.2015 **Jeffrey Magee** (Howard Hughes Medical Institute, Janelia Farm, USA)
- 15.04.2015 **Simon Laughlin** (University of Cambridge, UK)
- 22.04.2015 **Hannah Monyer** (University of Heidelberg, Germany)
- 20.05.2015 **Oscar Marin** (Instituto de Neurociencias, Alicante, Spain)

### Contact

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