

# Deutsche Neurowissenschaften-Olympiade, Frankfurt

## March 17th, 2018



### Event Schedule

#### Location: MPI for Brain Research

##### Time

11:00 - 12:00	Registration
12:00 - 12:10	Welcoming Remarks
12:10 - 12:20	Neuroscience in Frankfurt
12:20 - 12:45	Written Exam
13:00 - 14:00	Neuroanatomy Exam
14:00 - 15:00	Lunch & Photos

##### Time

15:00 - 16:00	Podium session I
16:00 - 16:30	Patient diagnosis exam
16:30 - 16:45	Break
16:45 - 17:40	Podium Session 2
17:40 - 18:00	Awards Ceremony + Pictures

### Neuroscience Mini Expo

#### We are all about "Driving Connectivity"

In addition to our neuroscience competition, we will also have these fun activities for you to enjoy:

##### Motor learning: Darts game

Test how fast can your brain can adapt to hitting a target when your vision is altered.

##### Hearing and Behavior: Cricket

Learn about the auditory structures of the cricket and how it relates to cricket behavior.

##### Electrophysiology: SpikerBox

Learn about action potentials and a fun way to control the movements of your friends.

##### Taste perception

Learn about how the brain processes taste and what happens when this is blocked.

##### Introduction to microscopy

Learn about fluorescence microscopy.

### The Competition

This is a 5-Stage competition held in English

#### 1) Written Exam

A short 10 question quiz with multiple choice questions, which you have 10 min to complete.

#### 2) Neuroanatomy exam

35 stations of brain models and microscopy slides, which you have 1 min at each station to answer structure and function related questions.

#### 3) Patient Diagnosis

Students receive a brief medical history, a selection of medical exam results, and watch a video of a patient's clinical symptoms.

Using this information, students must identify the neurological disorder of each patient.

#### 4 & 5) 1st and 2nd Podium sessions

During these live questions and answer rounds, students will be asked questions of different levels of difficulty by a panel of local neuroscientists. The top 10 students, will participate in the 2nd podium session.

### Competition Prizes

#### DNO Regionals, April 1st in Frankfurt, Germany

**1st Place Winner:** Spiker box kit and research internship

**2nd place winner:** Brain model

**3rd place winner:** Neuroscience: Exploring the Brain (textbook)

The **top 15 participants** will be automatically entered for the DNO nationals competition.

#### DNO Nationals, April 12th in Heidelberg, Germany

**1st place winner:** Represents Germany at the International Brain Bee, taking place July. 5-9th in Berlin, Germany. Plus free attendance to the FENS Forum of Neuroscience and research Internship experience.

Website: <http://forum2018.fens.org>

**2nd & 3rd place winner:** Free attendance to the FENS Forum for Neuroscience.

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## MPI for Brain Research

The Max Planck Institute for Brain Research is located on the Riedberg Campus in Frankfurt am Main. The institute's location is at the heart of the Natural Sciences Campus of Goethe University, positioned across the street from the Max Planck Institute of Biophysics, and next-door to the Frankfurt Institute of Advanced Studies and the University's Biology, Chemistry and Physics Departments. Therefore, due to its location, the institute is part of highly active and collaborative interdisciplinary research environment. The scientific focus of the institute is on multiple levels of neural circuits, from networks of interacting parts-molecules in a neuron, to neurons in a local circuit, to circuit-to-circuit communication. As a new research center itself, the Max Planck Institute for Brain Research officially opened in May 2014 and features state-of-the-art core facilities for imaging, proteomics and scientific computing as well as the Institute's Teaching Lab.

## Travel Directions

**Address: Max Planck Institute for Brain Research**  
Max-von-Laue-Str. 4  
60438 Frankfurt am Main

### By public transport:

Take the U-Bahn from Frankfurt Central Station to "Willy-Brandt Platz" (U4 to "Enkheim" or U5 to "Preungesheim"). From "Willy-Brandt Platz" U8 (direction "Riedberg") will take you to the Riedberg campus. Please get off at the stop "Uni Campus Riedberg" and go to the right. You will walk straight to the new building of MPI for Brain Research.

### By car:

Campus Riedberg is located in the north of Frankfurt and is close to the "Bad Homburger Kreuz" of the motorway A5. From the "Bad Homburger Kreuz" please take the A661 in the direction of Offenbach (NOT Bad Homburg). Take the second exit ("Heddernheim") and you will drive on the "Marie-Curie-Straße". Please take a right turn to the "Altenhöfer Allee" at the (second) traffic lights (follow the sign Riedberg). Please go left at the roundabout to the "Max-von-Laue-Straße". The institute is situated on your right-hand side.

**Free parking available on campus, no ticket required**

## Campus Map

