



Call for Application

Max-Planck Hebrew University Junior Fellows Program in Brain Research**January 2013**

The Max Planck Society and the Hebrew University have established a new Center for *Sensory Processing of the Brain in Action*, which will support collaborative research between the Edmond and Lily Safra Center for Brain Sciences (ELSC) in Jerusalem and the Max Planck Institute (MPI) of Neurobiology in Martinsried. The Center's goal is to advance our understanding of the neural mechanisms of sensory processing in its behavioral context. Current Principal investigators of the Center are: On the Israeli side: Idan Segev (Director) – sensory processing in dendritic modules, Haim Sompolinsky – theory of neuronal circuits, Adi Mizrahi – sensory coding and plasticity in the mammalian brain. On the German side: Tobias Bonhoeffer (Director) – synaptic plasticity in the behaving brain, Alexander Borst – motion processing in the fly visual system, Bert Sakmann – cortical columns *in vivo* and *in silico*. For further information about the center see: <http://elsc.huji.ac.il/max-planck>

To meet its goals the Center has established a **Junior Fellows Program**. Each Junior Fellowship is a three-year position (renewable up to five years) for independent experimental and/or theoretical research in topics such as functional modules of sensory systems and their integration (cells, synapses, dendrites, local circuits), experience-dependent adaptation and plasticity, behavioral modulation of sensory processing, and sensory-motor loops.

The Junior Fellow will establish his/her research program either at ELSC (Jerusalem) or/and at the MPI (Martinsried). It should be within the broadly defined interest and context of the research groups mentioned above. Fellowships include, in addition to a comfortable monthly compensation, a budget for equipment, for the support of a graduate student, and for travel between the Israeli and German sites. Fellows are expected to facilitate the collaboration between the two institutions and to participate in video-conferenced seminars, periodic meetings, and joint advanced courses. They will be jointly mentored by Israeli and German Principal Investigators and will benefit from the excellent scientific and technical infrastructure, as well as the exciting intellectual atmosphere in ELSC and MPI.

Candidates must have advanced training in either experimental or computational neuroscience.

Interested candidates are invited to send their CV as well as a short research statement to Prof. Tobias Bonhoeffer (tobias.bonhoeffer@neuro.mpg.de) and to Prof. Idan Segev (idan@lobster.ls.huji.ac.il) and to solicit three letters of reference to be sent to the above addresses.