

# Postdoc Positions in Sensory Neuroscience



*Postdoc positions are available in the Keays lab at the Institute of Molecular Pathology in Vienna on the magnetic sense of pigeons. Despite its prevalence in nature, magneto-reception is the least understood of all the sensory faculties. The Keays lab is focused on three questions:*

1. Where are the primary magnetosensors?
2. Where is magnetic information processed in the brain?
3. How is magnetic information encoded in the brain?

In answering these questions we exploit our unique infrastructure and state-of-the-art methods including: whole brain iDISCO clearing; in vivo 2 photon microscopy; single cell sequencing; CRISPR based genome editing; as well as a broad range of established molecular and cellular methods. Our long term goal is to unravel this scientific mystery, and exploit this knowledge to design artificial magnetoreceptors enabling the remote manipulation of neuronal circuits.

We wish to recruit post-docs who have a passion for neuroscience, who embrace a reductionist mindset, and who are able to think creatively when encountering unexpected problems. Training in biophysics, molecular biology, circuit neuroscience, and in vivo calcium imaging is advantageous.

The IMP is a leading institute in the life sciences in Europe with unparalleled scientific infrastructure, embedded within the dynamic Campus Vienna Biocenter (<https://www.viennabiocenter.org>.) Vienna offers a lively multicultural environment with high living standards, and is repeatedly ranked the most liveable city in the world (Mercer, Economist rankings). Child care facilities are available on campus.

These positions are funded by the European Research Council (ERC) for a period of 5 years. To apply please send a CV and cover letter to [keays@imp.ac.at](mailto:keays@imp.ac.at).

[Keayslab.org](http://Keayslab.org)