

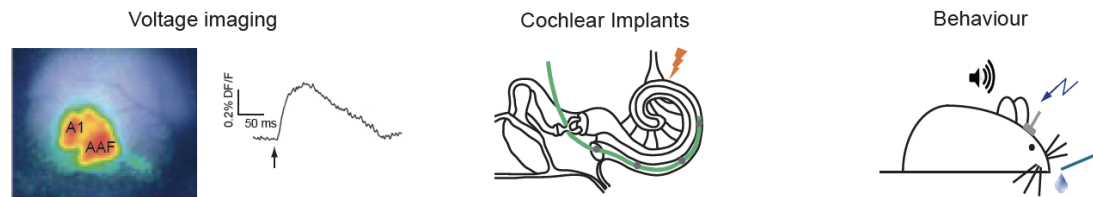
PHD STUDENT POSITION IN SYSTEM NEUROSCIENCE

The Brain & Sound Lab is seeking an ambitious, smart and self-driven scientist for a PhD student position. Start date: as soon as possible. Location: Basel University, Switzerland.

JOB DESCRIPTION

The project combines experiments and data analysis of in vivo functional imaging (voltage sensitive dye, voltage indicators and calcium imaging), cochlear implant stimulation, and behavioural assays to describe the temporal processing of sensory stimulation in the auditory cortex of mice.

The successful candidate will run experiments, analyse the data, and prepare the results for publication.



YOU ARE OUR NEW PhD STUDENT IF YOU:

- ☐ have completed a master with success in neuroscience, physics or related disciplines
- ☐ run experiments methodically and are adept at troubleshooting and problem solving
- ☐ are skilled in small animal surgeries, and have experience working with mice
- ☐ can be creative and focused on a project at the same time
- ☐ have experience in neurophysiological recording - knowledge of functional imaging techniques would be a plus
- ☐ know Matlab and have programmed data analysis code with success
- ☐ have ambition to pursue a career in science
- ☐ enjoy working in a team and like to share ideas with colleagues.

THE BENEFITS

- ☐ work with state-of-the-art technologies
- ☐ be part of a young and dynamic team
- ☐ become a member of the exciting neuroscience community of Basel
- ☐ enjoy an attractive location with high life quality standards

ABOUT THE LAB

www.brainsoundlab.com

The aim of our lab is to understand the role of specific neural circuits in making sense of sounds. We combine optogenetics, in vivo electrophysiology, voltage-sensitive dye imaging and behavioural assays to explore the functions of neuronal circuits in the mouse auditory cortex.

Ongoing work in our group focuses on the following questions:

- How do auditory cortical responses develop and how can they be modified?
- What neural circuits are involved in specific spectral and temporal sound features, and how can they influence behaviour?
- What influences does the environment have on these neuronal circuits?

For more information about our lab, please check www.brainsoundlab.com

Apply by sending your CV, your cover letter and a list of references by email to Prof. Tania Rinaldi Barkat, tania.barkat@unibas.ch, +41 61 207 16 38.