

Optogenetics and *in vivo* electrophysiology

Hands-on course

Training

Principles and practice of **optogenetics** : control of neuronal activity in **rodents**, coupled with *in vivo* electrophysiology

Topics covered

5 days workshop (offered throughout the year) covering :

- Theoretical courses on optogenetics principles and applications
- Electrodes, optrodes and optical fibers manufacture
- Stereotactic cannula implantation and cerebral injection
(Requirements : certification in experimental surgery)
- Neurons optical stimulation for behavior testing and electrophysiological recording **in real time**
- Results analysis and discussion

Requirements

Postdoctoral students and researchers with knowledge in molecular genetics, optoelectronic, rodent behavioral analysis, clinical and ethical concepts. Certification in experimental surgery will be required for some parts of the hands-on workshop.

Number of participants

A maximum of 20 participants will be enrolled in each course

Registration

Due to space limitation, individuals wishing to participate in a workshop should contact **optopath@u-bordeaux.fr** for training information and registration

