

## Details

### Core Facility for Neuroscience of Self-Regulation (CNSR)

The CNSR is located in its own building on the Altstadt campus of Heidelberg University. It has 15 rooms, 5 of which are used as experimental laboratories. Its main goal is to provide infrastructure for systemic neuroscientific studies and to impart knowledge and skills of application of neurophysiological measurement methods in research. It provides users with modern measurement technology, rooms and organizational-methodological support for non-invasive, neuro-behavioral research on humans. The CNSR can be used by all institutions of Heidelberg University and the Heidelberg-Mannheim Life Science Alliance, but also by public or private external institutions. Access is granted after positive evaluation of a study outline to be submitted. The use of the CNSR infrastructure is subject to a fee. The costs are specified in the fee schedule.

**Address:** Hauptstr. 47-51  
69117 Heidelberg  
Baden-Württemberg  
Deutschland  
[To website](#)

### Host Institution

**Universität Heidelberg**  
Grabengasse 1  
69117 Heidelberg  
Baden-Württemberg  
Deutschland  
<https://www.uni-heidelberg.de>

### Scientific Domain

**Primary Subjects:**

- Social and Behavioural Sciences
- Biology
- Medicine

**Secondary Subjects:**

- Humanities

### Category

Analytical Facilities

### Scientific Services

The CNSR is a neuro-behavioral core facility for non-invasive human research (healthy subjects & patients). The CNSR has 5 laboratories for neuroscience experiments, a preparation room for participants and an office for data analysis. The CNSR provides the users - laboratory equipment (devices and rooms), - user training for the provided equipment, - organizational infrastructure (e.g., an online booking system), - methodological support (review of the study design and personnel support in the start-up phase of the study), and - opportunities for caching of acquired data on the CNSR local server. The CNSR is core facility in user operation, i.e. the research infrastructure can be used by research groups on their own responsibility within the scope of their projects.

### Scientific Equipment

- 64 channel EEG-system BrainAmp DC
- 64 channel EEG-system actiCHamp Plus
- Mobile 64 channel EEG-system LiveAmp
- Mobile fNIRS-system NIRSport2
- BioPac MP160 (Electrophysiology)
- PLUX 8 channel hub (Electrophysiology)

- Eyetracker Tobii Spektrum Pro
- VIVE Pro 2 VR-system
- Motion tracking suit Perception Neuron 3

## Keywords

- Neurophysiology
- Brain imaging
- Psychophysiology
- Electroencephalography
- EEG
- Functional Near-Infrared Spectroscopy
- fNIRS
- Eyetracking
- Motion analysis
- Virtual reality
- VR
- Behavioral research
- Emotion research

## Networks

### Users per annum

**Internal Users:** ~ 200

**External Users in total:** n.n.

**External Users:** n.n.

**External Users in the EU:** n.n.

**External Users outside of EU:** n.n.