



The Buzsaki Lab Databank

 Experimental data ▾

 Animal metadata ▾

 Custom attributes ▾

 Taxonomies ▾

 Resources & Personnel ▾

 Documentation ▾

The Buzsaki Lab is proud to present a large selection of experimental data available for public access. We publicly share more than a thousand sessions (about 40TB of raw and spike- and LFP-processed data) via our public data repository. The datasets are from freely moving rodents and include sleep-task-sleep sessions (3 to 24 hrs continuous recording sessions) in various brain structures, including metadata. We are happy to assist you in using the data. Our goal is that by sharing these data, other users can provide new insights, extend, contradict, or clarify our conclusions.

The databank contains electrophysiological recordings performed in freely moving rats and mice collected by investigators in the Buzsaki Lab over several years (a subset from head-fixed mice). Sessions have been collected with extracellular electrodes using high-channel-count silicon probes, with spike sorted single units, and intracellular and juxtacellular combined with extracellular electrodes. Several sessions include physiologically and optogenetically identified units. The sessions have been collected from various brain region pairs: the hippocampus, thalamus, amygdala, post-subiculum, septal region, and the entorhinal cortex, and various neocortical regions. In most behavioral tasks, the animals performed spatial behaviors (linear mazes and open fields), preceded and followed by long sleep sessions. Brain state classification is provided.

Getting started

The top menu "Databank" serves as a navigational menu to the databank. The metadata describing the experiments is stored in a relational database which means that there are many entry points for exploring the data. The databank is organized by projects, animal subjects, and sessions.

Accessing and downloading the datasets

We share the data through two services: our public [Globus.org endpoint](#) and our webshare: [buzsakilab.nyu.edu](#). A subset of the datasets is also available at CRCNS.org. If you have an interest in a dataset that is not listed or is lacking information, please contact us. We pledge to make our data available immediately after publication.

Support

For support, please use our Buzsaki Databank google group. If you have an interest in a dataset that is not listed or is lacking information, please send a request. We will always respond to requests, assuming that the user has a sufficient level of knowledge to handle the data. Please contact us, if you need more details on a given dataset or if a dataset is missing.

How to cite

If you are using any of our data in a publication, please cite below DOI and the original study/studies producing the data.

Petersen, Peter Christian, Hernandez, Michelle, & Buzsáki, György. (2018). Public access to electrophysiological datasets collected in the Buzsaki Lab. Zenodo.
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