Resource Summary Report

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Rat Hippocampus Atlas

RRID:SCR_005552
Type: Tool

Proper Citation

Rat Hippocampus Atlas (RRID:SCR_005552)

Resource Information

URL: http://cmbn-approd01.uio.no/zoomgen/hippocampus/home.do

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Description: An interactive reference atlas providing a systematic overview of cyto- and chemoarchectonical features of the hippocampus proper, fasciola, and associated parahippocampal cortices. This atlas system has been developed to serve the need to integrate detailed descriptions of structures and criteria defining boundaries and atlas images in which the underlying histological features can be explored. Features * Alphabetical and hierarchical overview of 18 hippocampal structures * Detailed, illustrated descriptions of 63 boundaries * Interactive image repository with ~100 coronal histological images stained for NeuN, calbindin, and parvalbumin * Triple image viewer in which differently stained neighboring sections can be interactively compared * Graphical overlay of substructures based on described boundary criteria * Bidirectional links between structure descriptions and image repository The atlas is based on histological material from an adult Long Evans rat, stained for NeuN, calbindin, and parvalbumin. The system is intended for researchers working in the field, as well as students interested in this brain region. The atlas is accessed through the structure index or image viewer. Re-use of data from this repository is allowed provided that reference is given to the publication.

Abbreviations: Rat Hippocampus Atlas

Resource Type: atlas, data or information resource, reference atlas

Defining Citation: PMID:21519393

Keywords: rat, hippocampus, adult rat, long evans rat, hippocampus proper, fasciola, parahippocampal cortex, neuroanatomy, histology

Funding: University of Oslo; Oslo; Norway ;
Research Council of Norway ;
International Neuroinformatics Coordinating Facility ;
Norwegian Node

Resource Name: Rat Hippocampus Atlas

Resource ID: SCR_005552

Alternate IDs: nlx_144643

Record Creation Time: 20220129T080231+0000

Record Last Update: 20250523T054455+0000

Ratings and Alerts

No rating or validation information has been found for Rat Hippocampus Atlas.

No alerts have been found for Rat Hippocampus Atlas.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 4 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Salaka RJ, et al. (2021) Enriched environment ameliorates chronic temporal lobe epilepsy-induced behavioral hyperexcitability and restores synaptic plasticity in CA3-CA1 synapses in male Wistar rats. Journal of neuroscience research, 99(6), 1646.

Chiesa M, et al. (2021) Brain Volumes in Mice are Smaller at Birth After Term or Preterm Cesarean Section Delivery. Cerebral cortex (New York, N.Y. : 1991), 31(8), 3579.

Pyka M, et al. (2014) Parametric Anatomical Modeling: a method for modeling the anatomical layout of neurons and their projections. Frontiers in neuroanatomy, 8, 91.

Wilson DI, et al. (2013) Lateral entorhinal cortex is critical for novel object-context recognition. Hippocampus, 23(5), 352.