Resource Summary Report

Generated by SPARC SAWG on Sep 13, 2026

Brain atlas of the common marmoset

RRID:SCR_005135
Type: Tool

Proper Citation

Brain atlas of the common marmoset (RRID:SCR_005135)

Resource Information

URL: http://udn.nichd.nih.gov/brainatlas_home.html

Proper Citation: Brain atlas of the common marmoset (RRID:SCR_005135)

Description: THIS RESOURCE IS NO LONGER IN SERVICE. Documented on October 1, 2019. The first brain atlas for the common marmoset to be made available since a printed atlas by Stephan, Baron and Schwerdtfeger published in 1980. It is a combined histological and magnetic resonance imaging (MRI) atlas constructed from the brains of two adult female marmosets. Histological sections were processed from Nissl staining and digitized to produce an atlas in a large format that facilitates visualization of structures with significant detail. Naming of identifiable brain structures was performed utilizing current terminology. For the present atlas, an adult female was perfused through the heart with PBS followed by 10% formalin. The brain was then sent to Neuroscience Associates of Knoxville, TN, who prepared the brain for histological analysis. The brain was cut in the coronal (frontal) plane at 40 microns, every sixth section stained for Nissl granules with thionine and every seventh section stained for myelinated fibers with the Weil technique. The mounted sections were photographed at the NIH (Medical Arts and Photography Branch). The equipment used was a Nikon Multiphot optical bench with Zeiss Luminar 100 mm lens, and scanned with a Better Light 6100 scan back driven by Better Light Viewfinder 5.3 software. The final images were saved as arrays of 6000x8000 pixels in Adobe Photoshop 6.0. A scale in mm provided with these images permitted construction of the final Nissl atlas files with a horizontal and vertical scale. Some additional re-touching (brightness and contrast) was done with Adobe Photoshop Elements 2.0. The schematic (labeled) atlas plates were created from the Nissl images. The nomenclature came almost exclusively from brainmaps.org, where a rhesus monkey brain with structures labeled can be found. The labels for the MRI images were placed by M. R. Zametkin, under supervision from Dr. Newman.

Abbreviations: Brain Atlas of the Common Marmoset

Synonyms: Brain Atlas of the Common Marmoset Callithrix jacchus jacchus

Resource Type: atlas, data or information resource

Defining Citation: PMID:19744521

Keywords: callithrix jacchus jacchus, marmoset, primate neuroanatomy, callitrichidae, female, forebrain, thalamus, midbrain, brainstem, magnetic resonance imaging, adult, callithrix, histological section, nissl staining, brain, mri

Funding: NIH ;
NICHD ;
NINDS

Availability: THIS RESOURCE IS NO LONGER IN SERVICE.

Resource Name: Brain atlas of the common marmoset

Resource ID: SCR_005135

Alternate IDs: nlx_144140

Record Creation Time: 20220129T080228+0000

Record Last Update: 20260912T200135+0000

Ratings and Alerts

No rating or validation information has been found for Brain atlas of the common marmoset.

No alerts have been found for Brain atlas of the common marmoset.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We have not found any literature mentions for this resource.