

# Resource Summary Report

Generated by [SPARC SAWG](#) on Sep 18, 2026

## Atlasing of the basal ganglia

RRID:SCR\_009431

Type: Tool

### Proper Citation

Atlasing of the basal ganglia (RRID:SCR\_009431)

### Resource Information

**URL:** <http://www.nitrc.org/projects/atag/>

**Proper Citation:** Atlasing of the basal ganglia (RRID:SCR\_009431)

**Description:** This atlas takes advantage of ultra-high resolution 7T MRI to provide unprecedented levels of detail on structures of the basal ganglia in-vivo. The atlas includes probability maps of the Subthalamic Nucleus (STh) using T2\*-imaging. For now it has been created on 13 young healthy participants with a mean age of 24.38 (range: 22-28, SD: 2.36). We recently also created atlas STh probability maps from 8 middle-aged participants with a mean age of 50.67 (range: 40-59, SD: 6.63), and 9 elderly participants with a mean age of 72.33 (range: 67-77, SD: 2.87). You can find more details about the creation of these maps in the following papers: Young:

<http://www.ncbi.nlm.nih.gov/pubmed/22227131> Middle-aged & Elderly:

<http://www.ncbi.nlm.nih.gov/pubmed/23486960> Participating institutions are the Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany, and the Cognitive Science Center Amsterdam, University of Amsterdam, the Netherlands.

**Abbreviations:** Atlasing of the basal ganglia

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

**Defining Citation:** [PMID:22227131](#), [PMID:23486960](#)

**Keywords:** magnetic resonance, mri, late adult human, early adult human, middle adult human, basal ganglia

**Related Condition:** Aging

**Availability:** Creative Commons License

**Resource Name:** Atlasing of the basal ganglia

**Resource ID:** SCR\_009431

**Alternate IDs:** nlx\_155581

**Record Creation Time:** 20220129T080252+0000

**Record Last Update:** 20260912T200202+0000

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## Ratings and Alerts

No rating or validation information has been found for Atlasing of the basal ganglia.

No alerts have been found for Atlasing of the basal ganglia.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 6 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [SPARC SAWG](#) .

Wolfe T, et al. (2026) Population-Level Age Effects on the White Matter Structure Subservicing Cognitive Flexibility in the Human Brain. eNeuro, 13(2).

Wolfe T, et al. (2025) "Population-level age effects on the white matter structure subserving cognitive flexibility in the human brain". bioRxiv : the preprint server for biology.

Wang L, et al. (2021) Decreased Resting-State Functional Connectivity of Periaqueductal Gray in Temporal Lobe Epilepsy Comorbid With Migraine. Frontiers in neurology, 12, 636202.

Weiss M, et al. (2015) Spatial normalization of ultrahigh resolution 7 T magnetic resonance imaging data of the postmortem human subthalamic nucleus: a multistage approach. Brain structure & function, 220(3), 1695.

de Hollander G, et al. (2015) The subcortical cocktail problem; mixed signals from the subthalamic nucleus and substantia nigra. PloS one, 10(3), e0120572.

Mulder MJ, et al. (2014) Cortico-subthalamic connection predicts individual differences in value-driven choice bias. Brain structure & function, 219(4), 1239.