Resource Summary Report

Generated by dkNET on Apr 29, 2025

ICBM 152 Nonlinear atlases version 2009

RRID:SCR_008796

Type: Tool

Proper Citation

ICBM 152 Nonlinear atlases version 2009 (RRID:SCR_008796)

Resource Information

URL: http://www.bic.mni.mcgill.ca/ServicesAtlases/ICBM152NLin2009

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Description: Unbiased standard magnetic resonance imaging template brain volume for normal population. These volumes were created using data from ICBM project. 6 different templates are available: * ICBM 2009a Nonlinear Symmetric - template which includes T1w,T2w,PDw modalities, also T2 relaxometry (T2 values calculated for each subject using single dual echo PD/T2 scan), and tissue probabilities maps. Also included lobe atlas used for ANIMAL+INSECT segmentation, brain mask, eye mask and face mask. Intensity inhomogeneity was performed using N3 version 1.10.1. * ICBM 2009a Nonlinear Asymmetric template - template which includes T1w,T2w,PDw modalities, and tissue probabilities maps. Intensity inhomogeneity was performed using N3 version 1.10.1. Also included brain mask, eye mask and face mask. * ICBM 2009b Nonlinear Symmetric - template which includes only T1w,T2w and PDw modalities. * ICBM 2009b Nonlinear Asymmetric - template which includes only T1w, T2w and PDw modalities. * ICBM 2009c Nonlinear Symmetric - template which includes T1w,T2w,PDw modalities, and tissue probabilities maps. Also included lobe atlas used for ANIMAL+INSECT segmentation, brain mask, eye mask and face mask. Intensity inhomogeneity was performed using N3 version 1.11. Sampling is different from 2009a template. * ICBM 2009c Nonlinear Asymmetric template - template which includes T1w,T2w,PDw modalities, and tissue probabilities maps. Intensity inhomogeneity was performed using N3 version 1.11 Also included brain mask, eye mask and face mask. Sampling is different from 2009a template. All templates are describing the same anatomy, but sampling is different. Also, different versions of N3 algorithm produces slightly different tissue probability maps. Tools for using these atlases can be found in the Software section. Viewing the multiple atlas volumes online requires Java browser support. You may also download the templates - see licensing information.

Synonyms: , BIC ICBM 152 Nonlinear atlases version 2009

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

Keywords: magnetic resonance imaging, brain, human, normal

Funding:

Resource Name: ICBM 152 Nonlinear atlases version 2009

Resource ID: SCR_008796

Alternate IDs: nlx_144297

Record Creation Time: 20220129T080249+0000

Record Last Update: 20250429T055301+0000

Ratings and Alerts

No rating or validation information has been found for ICBM 152 Nonlinear atlases version 2009.

No alerts have been found for ICBM 152 Nonlinear atlases version 2009.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 174 mentions in open access literature.

Listed below are recent publications. The full list is available at <u>dkNET</u>.

Isherwood S, et al. (2025) Multi-study fMRI outlooks on subcortical BOLD responses in the stop-signal paradigm. eLife, 12.

Tashjian SM, et al. (2025) Subregions in the ventromedial prefrontal cortex integrate threat and protective information to meta-represent safety. PLoS biology, 23(1), e3002986.

Heukamp NJ, et al. (2025) Beyond the chronic pain stage: default mode network perturbation depends on years lived with back pain. Pain, 166(1), 160.

Jimenez CA, et al. (2024) The dorsomedial prefrontal cortex prioritizes social learning during rest. Proceedings of the National Academy of Sciences of the United States of America,

121(12), e2309232121.

Graves AJ, et al. (2024) Accelerated epigenetic age is associated with whole-brain functional connectivity and impaired cognitive performance in older adults. Scientific reports, 14(1), 9646.

Xue C, et al. (2024) Al-based differential diagnosis of dementia etiologies on multimodal data. Nature medicine, 30(10), 2977.

Botvinik-Nezer R, et al. (2024) Expectation generation and its effect on subsequent pain and visual perception. bioRxiv: the preprint server for biology.

Miao Z, et al. (2024) COMMON AND DISTINCT NEURAL CORRELATES OF SOCIAL INTERACTION PERCEPTION AND THEORY OF MIND. bioRxiv: the preprint server for biology.

Areshenkoff CN, et al. (2024) Distinct patterns of connectivity with the motor cortex reflect different components of sensorimotor learning. PLoS biology, 22(12), e3002934.

Singletary NM, et al. (2024) The parieto-occipital cortex is a candidate neural substrate for the human ability to approximate Bayesian inference. Communications biology, 7(1), 165.

Huang Q, et al. (2024) Replay-triggered brain-wide activation in humans. Nature communications, 15(1), 7185.

Triana AM, et al. (2024) Longitudinal single-subject neuroimaging study reveals effects of daily environmental, physiological, and lifestyle factors on functional brain connectivity. PLoS biology, 22(10), e3002797.

Zylberberg A, et al. (2024) Value construction through sequential sampling explains serial dependencies in decision making. eLife, 13.

Zylberberg A, et al. (2024) Value construction through sequential sampling explains serial dependencies in decision making. bioRxiv: the preprint server for biology.

Fischbach AK, et al. (2024) Seven Tesla Evidence for Columnar and Rostral-Caudal Organization of the Human Periaqueductal Gray Response in the Absence of Threat: A Working Memory Study. The Journal of neuroscience: the official journal of the Society for Neuroscience, 44(26).

Bathelt J, et al. (2024) Relationship Between Resting State Functional Connectivity and Reading-Related Behavioural Measures in 69 Adults. Neurobiology of language (Cambridge, Mass.), 5(2), 589.

Yang G, et al. (2024) Dorsolateral prefrontal activity supports a cognitive space organization of cognitive control. eLife, 12.

Demidenko MI, et al. (2024) A multi-sample evaluation of the measurement structure and function of the modified monetary incentive delay task in adolescents. Developmental

cognitive neuroscience, 65, 101337.

Heukamp NJ, et al. (2024) Adolescents' pain-related ontogeny shares a neural basis with adults' chronic pain in basothalamo-cortical organization. iScience, 27(2), 108954.

Pietracupa S, et al. (2024) Understanding the role of cerebellum in early Parkinson's disease: a structural and functional MRI study. NPJ Parkinson's disease, 10(1), 119.