Resource Summary Report

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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: atlas, data or information resource, reference atlas

Keywords: magnetic resonance imaging, brain, human, normal

Resource Name: ICBM 152 Nonlinear atlases version 2009

Resource ID: SCR_008796

Alternate IDs: nlx_144297

Record Creation Time: 20220129T080249+0000

Record Last Update: 20260801T190839+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 243 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

Wang M, et al. (2026) Global White Matter Damage in Focal Brainstem Injury Patients With Disorders of Consciousness: A Diffusion Tensor Tractography Study. European journal of neurology, 33(1), e70476.

Qu S, et al. (2026) Advancing whole-brain BOLD functional MRI in humans at 10.5???T with motion-robust 3D echo-planar imaging, parallel transmission, and high-density radiofrequency receive coils. Magnetic resonance in medicine, 95(2), 1068.

McDevitt EA, et al. (2026) The Role of Rapid Eye Movement Sleep in Neural Differentiation of Memories in the Hippocampus. Journal of cognitive neuroscience, 38(1), 126.

West JT, et al. (2026) Exploring the neural underpinnings of semantic and perceptual false memory formation. Neuropsychologia, 221, 109332.

Willems AL, et al. (2025) Omissions of threat trigger subjective relief and prediction error-like signaling in the human reward and salience systems. eLife, 12.

Campisi C, et al. (2025) Clinical MRI to predict motor and non-motor effects of deep brain stimulation in Parkinson disease. La Radiologia medica, 130(8), 1263.

Hao Y, et al. (2025) A unique neural and behavioral profile of social anxiety in autism. Research square.

David I, et al. (2025) Distance- and Hierarchy-Dependent Functional Dysconnectivity in Schizophrenia and Its Association with Cortical Microstructure. medRxiv : the preprint server for health sciences.

Reddan MC, et al. (2025) Neural signatures of emotional intent and inference align during social consensus. Nature communications, 16(1), 6156.

Bas LM, et al. (2025) A neurocomputational account of the link between social perception and social action. eLife, 12.

Sulpizio V, et al. (2025) Unveiling the neural network involved in mentally projecting the self through episodic autobiographical memories. Scientific reports, 15(1), 12781.

Mirjalili S, et al. (2025) Hippocampal transformations occur along dimensions of memory interference. bioRxiv : the preprint server for biology.

Hao Y, et al. (2025) Understanding depression in autism: the role of subjective perception and anterior cingulate cortex volume. Molecular autism, 16(1), 9.

Becker M, et al. (2025) Insight predicts subsequent memory via cortical representational change and hippocampal activity. Nature communications, 16(1), 4341.

Barnaveli I, et al. (2025) Hippocampal-entorhinal cognitive maps and cortical motor system represent action plans and their outcomes. Nature communications, 16(1), 4139.

Tarder-Stoll H, et al. (2025) The Hippocampus Rapidly Integrates Sequence Representations During Novel Multistep Predictions. bioRxiv : the preprint server for biology.

Kamps FS, et al. (2025) Representation of navigational affordances and ego-motion in the occipital place area. Imaging neuroscience (Cambridge, Mass.), 3.

Warren SL, et al. (2025) Towards Clinical Diagnoses: Classifying Alzheimer's Disease Using Single fMRI, Small Datasets, and Transfer Learning. Brain and behavior, 15(3), e70427.

Kimbler A, et al. (2025) Advanced diffusion imaging in grey matter reflects individual differences in cognitive ability in older adults. bioRxiv : the preprint server for biology.

Botvinik-Nezer R, et al. (2025) Expectation generation and its effect on subsequent pain and visual perception. PLoS computational biology, 21(5), e1013053.