

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: 20260905T133045+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 278 mentions in open access literature.

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

Yi S, et al. (2026) Computational and neural mechanisms underlying the influence of action affordances on value learning. *Nature communications*, 17(1), 1096.

Miao Z, et al. (2026) Common and distinct neural correlates of social interaction processing and theory of mind in narratives. *Nature communications*, 17(1).

Sugawara M, et al. (2026) A densely sampled fMRI dataset for investigating food valuation. *Scientific data*, 13(1).

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.

Crawford JL, et al. (2026) Dissociable Mechanisms Underlie Differences Between Memory and Metamemory in Older Adults: The Differentiating Role of Anxiety and Depression Symptoms. *Hippocampus*, 36(3), e70100.

Adriano A, et al. (2026) Echoes of time: Organization of episodic autobiographical memories in the brain according to their remoteness. *NeuroImage*, 331, 121857.

Stevenson N, et al. (2026) Building bridges between brain and behavior: An open-source toolbox for joint modeling with fMRI. *Imaging neuroscience (Cambridge, Mass.)*, 4.

Quattrocchi CC, et al. (2026) Quadrato Motor Training in Parkinson's Disease: Resting-State fMRI Changes and Exploratory Whole-Brain Radiomics. *Bioengineering* (Basel, Switzerland), 13(5).

Thieu MK, et al. (2026) Human superior colliculus pathways represent the form and motion of looming objects. *Cell reports*, 45(3), 117033.

Steeby CJ, et al. (2026) Naturalistic movie viewing is an effective functional localizer of the fusiform face area in adolescents with and without autism. *Imaging neuroscience* (Cambridge, Mass.), 4.

Eperon A, et al. (2026) Action information is integrated into entorhinal representations of conceptual space and is reflected in eye movements. *PLoS biology*, 24(4), e3003755.

Hao Y, et al. (2026) Reduced Affiliative Behavior in Autism Reflects Greater Dependence on Perceived Similarity. *Research square*.

Bouffard NR, et al. (2026) Age Differences in Hippocampal Neural Timescales During Movie-Viewing. *bioRxiv : the preprint server for biology*.

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

David I, et al. (2026) Distance- and hierarchy-dependent functional dysconnectivity in schizophrenia and its association with cortical microstructure. *NeuroImage. Clinical*, 49, 103958.

Centanino V, et al. (2026) Neuronal populations across the cortex underlie discrete, categorical, and subjective representations of visual durations. *PLoS biology*, 24(3), e3003704.

Huang J, et al. (2026) Binding items to contexts through conjunctive neural representations with the method of loci. *Nature communications*, 17(1).

Camacho PB, et al. (2026) Study protocol for the Champaign-Urbana population study. *Frontiers in neuroimaging*, 5, 1728970.

Brannigan K, et al. (2026) Hippocampal connectivity predicting recognition and categorization abilities. *Frontiers in cognition*, 5, 1765217.

Grossman CD, et al. (2026) The representation and valuation of subgoals in the human brain during model-based hierarchical behavior. *Neuron*, 114(7), 1306.