

Resource Summary Report

Generated by SPARC SAWG on Aug 9, 2026

Automated Image Registration

RRID:SCR_005944

Type: Tool

Proper Citation

Automated Image Registration (RRID:SCR_005944)

Resource Information

URL: <http://bishopw.ionu.ucla.edu/AIR5/>

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Description: A tool for automated registration of 3D (and 2D) images within and across subjects and within and sometimes across imaging modalities. The AIR library can easily incorporate automated image registration into site specific programs adapted to your particular needs.

Abbreviations: AIR

Resource Type: registration software, software toolkit, image analysis software, software library, software resource, software application, alignment software, data processing software

Keywords: registration, alignment

Availability: GNU General Public License

Resource Name: Automated Image Registration

Resource ID: SCR_005944

Alternate IDs: nif-0000-00260

Alternate URLs: <http://www.nitrc.org/projects/air>

Record Creation Time: 20220129T080233+0000

Record Last Update: 20260808T185839+0000

Ratings and Alerts

No rating or validation information has been found for Automated Image Registration.

No alerts have been found for Automated Image Registration.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 29 mentions in open access literature.

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

Alvarez-Martinez M, et al. (2024) Blimp-1 and c-Maf regulate immune gene networks to protect against distinct pathways of pathobiont-induced colitis. *Nature immunology*, 25(5), 886.

Zhang C, et al. (2020) Abnormal Brain Development in Huntington' Disease Is Recapitulated in the zQ175 Knock-In Mouse Model. *Cerebral cortex communications*, 1(1), tgaa044.

Ailion AS, et al. (2019) Neuroimaging of the component white matter connections and structures within the cerebellar-frontal pathway in posterior fossa tumor survivors. *NeuroImage. Clinical*, 23, 101894.

da Cunha-Bang S, et al. (2019) Measuring endogenous changes in serotonergic neurotransmission with [11C]Cimbi-36 positron emission tomography in humans. *Translational psychiatry*, 9(1), 134.

Park G, et al. (2018) Automatic Segmentation of Corpus Callosum in Midsagittal Based on Bayesian Inference Consisting of Sparse Representation Error and Multi-Atlas Voting. *Frontiers in neuroscience*, 12, 629.

Li Q, et al. (2017) Resting-state functional MRI reveals altered brain connectivity and its correlation with motor dysfunction in a mouse model of Huntington's disease. *Scientific reports*, 7(1), 16742.

DeBay DR, et al. (2017) Targeting butyrylcholinesterase for preclinical single photon emission computed tomography (SPECT) imaging of Alzheimer's disease. *Alzheimer's & dementia (New York, N. Y.)*, 3(2), 166.

DeBay DR, et al. (2017) Butyrylcholinesterase-knockout reduces fibrillar β -amyloid and conserves 18FDG retention in 5XFAD mouse model of Alzheimer's disease. *Brain research*, 1671, 102.

Saad A, et al. (2016) Is There a Causal Relation between Maternal Acetaminophen Administration and ADHD? *PLoS one*, 11(6), e0157380.

Peng Q, et al. (2016) Characterization of Behavioral, Neuropathological, Brain Metabolic and Key Molecular Changes in zQ175 Knock-In Mouse Model of Huntington's Disease. PloS one, 11(2), e0148839.

Korostil M, et al. (2016) Task-independent effects are potential confounders in longitudinal imaging studies of learning in schizophrenia. Neurolmage. Clinical, 10, 159.

Huang SM, et al. (2016) Inter-Strain Differences in Default Mode Network: A Resting State fMRI Study on Spontaneously Hypertensive Rat and Wistar Kyoto Rat. Scientific reports, 6, 21697.

Korostil M, et al. (2016) Practice and Learning: Spatiotemporal Differences in Thalamo-Cortical-Cerebellar Networks Engagement across Learning Phases in Schizophrenia. Frontiers in psychiatry, 7, 212.

Mišić B, et al. (2014) The functional connectivity landscape of the human brain. PloS one, 9(10), e111007.

Vassar RL, et al. (2014) Identification of neonatal white matter on DTI: influence of more inclusive thresholds for atlas segmentation. PloS one, 9(12), e115426.

Mokhtari F, et al. (2013) Decoding brain states using backward edge elimination and graph kernels in fMRI connectivity networks. Journal of neuroscience methods, 212(2), 259.

Truong TK, et al. (2011) Dynamic correction of artifacts due to susceptibility effects and time-varying eddy currents in diffusion tensor imaging. Neurolmage, 57(4), 1343.

Cheng Y, et al. (2011) Structural MRI detects progressive regional brain atrophy and neuroprotective effects in N171-82Q Huntington's disease mouse model. Neurolmage, 56(3), 1027.

Tosun D, et al. (2011) Intelligence and cortical thickness in children with complex partial seizures. Neurolmage, 57(2), 337.

Zhang J, et al. (2010) Longitudinal characterization of brain atrophy of a Huntington's disease mouse model by automated morphological analyses of magnetic resonance images. Neurolmage, 49(3), 2340.