

Resource Summary Report

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BASIL

RRID:SCR_024918

Type: Tool

Proper Citation

BASIL (RRID:SCR_024918)

Resource Information

URL: <https://fsl.fmrib.ox.ac.uk/fsl/fslwiki/BASIL>

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Description: Software toolbox for kinetic model inversion to the data using Bayesian algorithm. Performs kinetic model inversion on ASL label control difference data.

Abbreviations: BASIL

Synonyms: , BASIL:Bayesian Inference for Arterial Spin Labeling MRI, Bayesian Inference for Arterial Spin Labeling MRI

Resource Type: software toolkit, software resource

Keywords: Bayesian algorithm, kinetic model inversion to the data, kinetic model inversion, ASL label control difference data,

Availability: Free, Freely available

Resource Name: BASIL

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Alternate URLs: <https://asl-docs.readthedocs.io/en/latest/basilcmd.html>,
<https://github.com/physimals/asl-docs/blob/master/basilcmd.rst>

Record Creation Time: 20240129T210604+0000

Record Last Update: 20260810T040908+0000

Ratings and Alerts

No rating or validation information has been found for BASIL.

No alerts have been found for BASIL.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Hu J, et al. (2025) Regional changes in cerebral perfusion with age when accounting for changes in gray-matter volume. *Magnetic resonance in medicine*, 93(4), 1807.

Ribaldi F, et al. (2025) Agreement between early-phase amyloid-PET and pulsed arterial spin labeling in a memory clinic cohort. *Journal of molecular medicine (Berlin, Germany)*, 103(7), 809.

Pareto D, et al. (2025) Image analysis research in neuroradiology: bridging clinical and technical domains. *Neuroradiology*, 67(7), 1649.

Deery HA, et al. (2024) The association of regional cerebral blood flow and glucose metabolism in normative ageing and insulin resistance. *Scientific reports*, 14(1), 14574.

Yu X, et al. (2024) Exploring the Impact of Hemoglobin on Cerebral Blood Flow in Arterial Territories and Surgical Outcomes: Potential Implications for Moyamoya Disease Treatment. *Journal of the American Heart Association*, 13(19), e035387.

Falcon C, et al. (2024) Time-encoded ASL reveals lower cerebral blood flow in the early AD continuum. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 20(8), 5183.

de Cates AN, et al. (2023) 5-HT4 Receptor Agonist Effects on Functional Connectivity in the Human Brain: Implications for Procognitive Action. *Biological psychiatry. Cognitive neuroscience and neuroimaging*, 8(11), 1124.

Marstrand-Joergensen MR, et al. (2023) The BrainDrugs-epilepsy study: A prospective open-label cohort precision medicine study in epilepsy. *Neuroscience applied*, 2, 101136.

Zhang R, et al. (2022) Decreased Cerebral Blood Flow and Delayed Arterial Transit Are Independently Associated With White Matter Hyperintensity. *Frontiers in aging neuroscience*, 14, 762745.

Alves JM, et al. (2022) FGF21 response to sucrose is associated with BMI and dorsal striatal signaling in humans. *Obesity (Silver Spring, Md.)*, 30(6), 1239.