

# Resource Summary Report

Generated by [dkNET](#) on Apr 26, 2025

## BASIL

RRID:SCR\_024918

Type: Tool

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### Proper Citation

BASIL (RRID:SCR\_024918)

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### Resource Information

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

**Proper Citation:** BASIL (RRID:SCR\_024918)

**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,

**Funding:**

**Availability:** Free, Freely available

**Resource Name:** BASIL

**Resource ID:** SCR\_024918

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

**Record Creation Time:** 20240129T210604+0000

**Record Last Update:** 20250425T060633+0000

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## Ratings and Alerts

No rating or validation information has been found for BASIL.

No alerts have been found for BASIL.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 5 mentions in open access literature.

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

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.

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.

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.

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.

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