

Resource Summary Report

Generated by PRECISE-TBI on Jul 31, 2026

Signed Differential Mapping

RRID:SCR_002554

Type: Tool

Proper Citation

Signed Differential Mapping (RRID:SCR_002554)

Resource Information

URL: <http://www.sdmproject.com/>

Proper Citation: Signed Differential Mapping (RRID:SCR_002554)

Description: Statistical method and software for conducting image- and coordinate-based meta-analysis of neuroimaging studies investigating differences in brain activity (e.g. BOLD response in fMRI, metabolism in PET) or structure (e.g. gray matter volume in VBM, voxel-based or TBSS white matter fractional anisotropy in DTI, etcetera).

Abbreviations: SDM

Resource Type: software resource

Keywords: magnetic resonance, pet, spect, fmri, vbm, meta-analysis

Availability: Free, Available for download, Freely available

Resource Name: Signed Differential Mapping

Resource ID: SCR_002554

Alternate IDs: nlx_155962

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

Record Creation Time: 20220129T080214+0000

Record Last Update: 20260725T190525+0000

Ratings and Alerts

No rating or validation information has been found for Signed Differential Mapping.

No alerts have been found for Signed Differential Mapping.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 150 mentions in open access literature.

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

Yang Y, et al. (2025) Structural and functional alterations in the brain gray matter among Tourette syndrome patients: a multimodal meta-analysis of fMRI and VBM studies. *Journal of neurology*, 272(2), 133.

Wang ZY, et al. (2025) No reliable gray matter alterations in idiopathic dystonia. *Frontiers in neurology*, 16, 1510115.

Lin S, et al. (2025) Joint and distinct neural structure and function deficits in major depressive disorder with suicidality: a multimodal meta-analysis of MRI studies. *Journal of psychiatry & neuroscience : JPN*, 50(2), E126.

See CRZ, et al. (2025) A whole-brain voxel-based analysis of structural abnormalities in PTSD: An ENIGMA-PGC study. *European psychiatry : the journal of the Association of European Psychiatrists*, 68(1), e97.

Yu W, et al. (2025) Shared cortical characteristics in major depressive disorder, anxiety disorder, and chronic pain: a structural MRI meta-analysis study. *Translational psychiatry*, 15(1), 430.

Lim L, et al. (2025) Structural connectivity abnormalities in suicidal thoughts and behaviours: a meta-analysis. *Translational psychiatry*, 15(1), 480.

Zhang Z, et al. (2025) Resting-state network alterations in depression: a comprehensive meta-analysis of functional connectivity. *Psychological medicine*, 55, e63.

Zhang X, et al. (2025) Common neural patterns of substance use disorder: a seed-based resting-state functional connectivity meta-analysis. *Translational psychiatry*, 15(1), 190.

Fan X, et al. (2025) Coordinates-based meta-analysis for vestibular migraine and the underlying mechanisms behind it. *Frontiers in neurology*, 16, 1495423.

Xu J, et al. (2025) Shared neuroimaging and molecular profiles in type 2 diabetes mellitus and major depressive disorder: an integrative analysis of genetic, transcriptomic, and neuroimaging data. *Translational psychiatry*, 15(1), 352.

Wang L, et al. (2025) Resting-State Brain Activity Changes and Their Genetic Correlates in Mild Traumatic Brain Injury. *Human brain mapping*, 46(8), e70259.

Yan Z, et al. (2025) A systematic review and coordinate-based meta-analysis of resting-state fMRI in athletes from open and closed skills sports. *Scientific reports*, 15(1), 21870.

Zhang Y, et al. (2025) From risk to chronicity: genetic and neuroimaging insights into the evolving patterns of spontaneous brain activity in schizophrenia. *Psychological medicine*, 55, e306.

Tapia Medina MG, et al. (2025) The clinical relevance of healthy neurodevelopmental connectivity in childhood and adolescence: a meta-analysis of resting-state fMRI. *Frontiers in neuroscience*, 19, 1576932.

Kořová H, et al. (2025) The fate and function of the Arabidopsis Class I formin AtFH1 during central vacuole biogenesis in the rhizodermis. *Frontiers in plant science*, 16, 1685260.

Zhong S, et al. (2024) Neural correlates of harm avoidance: a multimodal meta-analysis of brain structural and resting-state functional neuroimaging studies. *Translational psychiatry*, 14(1), 384.

Merola GP, et al. (2024) Transdiagnostic markers across the psychosis continuum: a systematic review and meta-analysis of resting state fMRI studies. *Frontiers in psychiatry*, 15, 1378439.

Guo Z, et al. (2024) Systematic review and meta-analysis: multimodal functional and anatomical neural alterations in autism spectrum disorder. *Molecular autism*, 15(1), 16.

Rao Y, et al. (2024) A systematic review and coordinate-based meta-analysis of fMRI studies on acupuncture at LR 3. *Frontiers in neuroscience*, 18, 1341567.

Si S, et al. (2024) Mapping gray and white matter volume abnormalities in early-onset psychosis: an ENIGMA multicenter voxel-based morphometry study. *Molecular psychiatry*, 29(2), 496.