

Resource Summary Report

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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: 20260905T132450+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 206 mentions in open access literature.

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

Wang P, et al. (2026) Multi-omics integration reveals shared genetic architecture between metabolic markers and gray matter atrophy in Alzheimer's Disease. The journal of prevention of Alzheimer's disease, 13(2), 100452.

Li Y, et al. (2026) AES-SDM meta-analysis of spontaneous brain activity in cerebral small vessel disease. BMC medical imaging, 26(1).

Chen G, et al. (2026) Intrinsic regional brain activity differences and its relationship with neurotransmitter and gene expression in postpartum depression: a voxel-based meta-analysis. Psychological medicine, 56, e110.

Soilleux EJ, et al. (2026) Vitamin D receptor expression in germinal centre type diffuse large B-cell lymphoma cells is associated with vitamin D insensitivity. Endocrine oncology (Bristol, England), 6(1), e250057.

Xie Y, et al. (2026) Shared genetic architecture of gray matter deficits in schizophrenia and bipolar disorder: evidence from structural neuroimaging-genetic analyses. Psychological medicine, 56, e149.

Tian J, et al. (2026) Altered Resting-State Functional Connectivity in Internet Gaming Disorder: Convergent Evidence and Independent Validation. Addictive behaviors reports, 23, 100703.

Na Y, et al. (2026) Structural and Functional Brain Alterations in Postherpetic Neuralgia: A Systematic Review and Voxel-Wise Coordinate-Based Meta-Analysis via the SDM-PSI Method. Journal of pain research, 19, 600570.

Han S, et al. (2026) Altered cortical thickness in type 2 diabetes mellitus patients revealed by coordinate-based meta-analysis. BMC endocrine disorders, 26(1).

Giordano GM, et al. (2026) Adverse childhood experiences and resting state functional connectivity of the triple brain network: a meta-analysis. European archives of psychiatry and clinical neuroscience, 276(4), 1449.

Chen W, et al. (2026) Consistent cortico-basal ganglia-cerebellar activation in early motor sequence learning: a systematic review and meta-analysis. Translational psychiatry, 16(1).

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.

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

Li L, et al. (2025) Grey matter volume differences in pediatric obsessive-compulsive disorder: a meta-analysis of voxel-based morphometry studies. *BMC psychiatry*, 25(1), 267.

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.

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.

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.

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.

Shi R, et al. (2025) Alterations in resting-state brain activity patterns following antidepressant treatment: insights from a coordinate-based meta-analysis. *Psychological medicine*, 55, e380.

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

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.