

# Resource Summary Report

Generated by [RRID](#) on Apr 10, 2025

## Signed Differential Mapping

RRID:SCR\_002554

Type: Tool

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### Proper Citation

Signed Differential Mapping (RRID:SCR\_002554)

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### 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

**Funding:**

**Availability:** Free

**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:** 20250410T064915+0000

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## Ratings and Alerts

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

No alerts have been found for Signed Differential Mapping.

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 136 mentions in open access literature.

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

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.

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.

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.

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.

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.

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.

Wang L, et al. (2024) Meta-analysis of structural and functional brain abnormalities in early-onset schizophrenia. *Frontiers in psychiatry*, 15, 1465758.

Ren H, et al. (2024) The shared neurobiological basis of developmental dyslexia and developmental stuttering: A meta-analysis of functional and structural MRI studies. *International journal of clinical and health psychology : IJCHP*, 24(4), 100519.

Li M, et al. (2024) Magnetic resonance imaging studies on acupuncture therapy in cerebral ischemic stroke: A systematic review. *Heliyon*, 10(20), e39059.

Jiang Y, et al. (2024) Functional magnetic resonance imaging alternations in suicide attempts individuals and their association with gene expression. *NeuroImage. Clinical*, 43, 103645.

Sun S, et al. (2023) Meta-analysis of cortical thickness reduction in adult schizophrenia. *Journal of psychiatry & neuroscience : JPN*, 48(6), E461.

Neumann N, et al. (2023) Common neural correlates of vestibular stimulation and fear learning: an fMRI meta-analysis. *Journal of neurology*, 270(4), 1843.

Li Q, et al. (2023) Resting-state brain functional alterations and their genetic mechanisms in drug-naive first-episode psychosis. *Schizophrenia (Heidelberg, Germany)*, 9(1), 13.

Lukito S, et al. (2023) Should perception of emotions be classified according to threat detection rather than emotional valence? An updated meta-analysis for a whole-brain atlas of emotional faces processing. *Journal of psychiatry & neuroscience : JPN*, 48(5), E376.

Zeng J, et al. (2023) A Meta-Analysis of Neural Correlates of Reward Anticipation in Individuals at Clinical Risk for Schizophrenia. *The international journal of neuropsychopharmacology*, 26(4), 280.

Wang T, et al. (2023) The effects of noninvasive brain stimulation on cognitive function in patients with mild cognitive impairment and Alzheimer's disease using resting-state functional magnetic resonance imaging: A systematic review and meta-analysis. *CNS neuroscience & therapeutics*, 29(11), 3160.

Lavallé L, et al. (2023) The neural signature of reality-monitoring: A meta-analysis of functional neuroimaging studies. *Human brain mapping*, 44(11), 4372.

Lan H, et al. (2023) Shared and distinct abnormalities of brain magnetization transfer ratio in schizophrenia and major depressive disorder: a comparative voxel-based meta-analysis. *Chinese medical journal*, 136(23), 2824.

Huang X, et al. (2023) A multimodal meta-analysis of gray matter alterations in trigeminal neuralgia. *Frontiers in neurology*, 14, 1179896.

Li Z, et al. (2023) Inverted U-shaped brain development of cognitive control across the human lifespan. *bioRxiv : the preprint server for biology*.