

Resource Summary Report

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MRspa

RRID:SCR_017292

Type: Tool

Proper Citation

MRspa (RRID:SCR_017292)

Resource Information

URL: <https://www.cmrr.umn.edu/downloads/mrspa>

Proper Citation: MRspa (RRID:SCR_017292)

Description: Software package to post process MR spectroscopy data. Magnetic Resonance signal processing and analysis software. Runs under Matlab.

Synonyms: Magnetic Resonance signal processing and analysis

Resource Type: data analysis software, software resource, data processing software, software application

Keywords: post, process, magnetic, resonance, spectroscopy, data, analysis

Availability: Restricted

Resource Name: MRspa

Resource ID: SCR_017292

Record Creation Time: 20220129T080334+0000

Record Last Update: 20260803T040747+0000

Ratings and Alerts

No rating or validation information has been found for MRspa.

No alerts have been found for MRspa.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 19 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#) .

Steinwurz C, et al. (2025) Acute Supplementation of Beta-Hydroxybutyrate Increases Visual Cortical Excitability in Humans: A Combined Electro-EncephaloGraphy and Magnetic Resonance Spectroscopy Study. *The European journal of neuroscience*, 62(7), e70270.

Gao Y, et al. (2024) GABAergic inhibition in human hMT+ predicts visuo-spatial intelligence mediated through the frontal cortex. *eLife*, 13.

Zarate N, et al. (2023) Neurochemical correlates of synapse density in a Huntington's disease mouse model. *Journal of neurochemistry*, 164(2), 226.

Zacharopoulos G, et al. (2023) Dissecting the chain of information processing and its interplay with neurochemicals and fluid intelligence across development. *eLife*, 12.

Ziminski JJ, et al. (2023) Microstructural and neurochemical plasticity mechanisms interact to enhance human perceptual decision-making. *PLoS biology*, 21(3), e3002029.

Westwater ML, et al. (2022) Characterizing cerebral metabolite profiles in anorexia and bulimia nervosa and their associations with habitual behavior. *Translational psychiatry*, 12(1), 103.

Zacharopoulos G, et al. (2022) The effect of parietal glutamate/GABA balance on test anxiety levels in early childhood in a cross-sectional and longitudinal study. *Cerebral cortex (New York, N.Y. : 1991)*, 32(15), 3243.

Murley AG, et al. (2022) Proton magnetic resonance spectroscopy in frontotemporal lobar degeneration-related syndromes. *Neurobiology of aging*, 111, 64.

Zacharopoulos G, et al. (2021) Predicting Working Memory Capacity Based on Glutamatergic Concentration and its Modulation of Functional Connectivity. *Neuroscience*, 457, 12.

Zacharopoulos G, et al. (2021) The relation between parietal GABA concentration and numerical skills. *Scientific reports*, 11(1), 17656.

Ip IB, et al. (2021) GABAergic inhibition in the human visual cortex relates to eye dominance. *Scientific reports*, 11(1), 17022.

Koolschijn RS, et al. (2021) Memory recall involves a transient break in excitatory-inhibitory balance. *eLife*, 10.

Zacharopoulos G, et al. (2021) Predicting learning and achievement using GABA and glutamate concentrations in human development. *PLoS biology*, 19(7), e3001325.

Zacharopoulos G, et al. (2021) The cross-sectional interplay between neurochemical profile and brain connectivity. *Human brain mapping*, 42(9), 2722.

Maruyama S, et al. (2021) Cognitive control affects motor learning through local variations in GABA within the primary motor cortex. *Scientific reports*, 11(1), 18566.

Zacharopoulos G, et al. (2021) The impact of a lack of mathematical education on brain development and future attainment. *Proceedings of the National Academy of Sciences of the United States of America*, 118(24).

Zich C, et al. (2020) Modulatory effects of dynamic fMRI-based neurofeedback on emotion regulation networks in adolescent females. *NeuroImage*, 220, 117053.

Deelchand DK, et al. (2020) Changes in the intracellular microenvironment in the aging human brain. *Neurobiology of aging*, 95, 168.

Ip IB, et al. (2019) Comparison of Neurochemical and BOLD Signal Contrast Response Functions in the Human Visual Cortex. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 39(40), 7968.