

Resource Summary Report

Generated by [dkNET](#) on Sep 21, 2026

The Decoding Toolbox

RRID:SCR_017424

Type: Tool

Proper Citation

The Decoding Toolbox (RRID:SCR_017424)

Resource Information

URL: <https://sites.google.com/site/tdtdecodingtoolbox/>

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Description: Software Matlab toolbox for multivariate analysis of functional and structural MRI data. Software package for multivariate analyses of functional imaging data.

Abbreviations: TDT

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

Defining Citation: [PMID:25610393](#)

Keywords: Multivariate, analysis, structural, MRI, data, functional, imaging, brain

Funding: German Ministry of Education and Research ;
German Research Foundation

Availability: Free, Available for download, Freely available

Resource Name: The Decoding Toolbox

Resource ID: SCR_017424

Record Creation Time: 20220129T080335+0000

Record Last Update: 20260919T195340+0000

Ratings and Alerts

No rating or validation information has been found for The Decoding Toolbox.

No alerts have been found for The Decoding Toolbox.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Zhao Y, et al. (2026) Domain-General Neural Effects of Associative Learning and Expectations on Pain and Hedonic Taste Perception. The Journal of neuroscience : the official journal of the Society for Neuroscience, 46(3).

Watanabe T, et al. (2026) Unsupervised visual learning is revealed for task-irrelevant natural scenes due to reduced attentional suppression effects in visual areas. Nature communications, 17(1).

Howell P, et al. (2025) Distinguishing the activity of adjacent somatosensory nuclei within the brainstem using 3T fMRI. Imaging neuroscience (Cambridge, Mass.), 3.

He Z, et al. (2025) Dynamic Neural Deactivation Bridges Direct and Competitive Inhibition Processes. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(43), e06833.

Diaz-Gutierrez P, et al. (2025) Group membership and stereotype content jointly affect neural processing during resource allocation decisions. Scientific reports, 15(1), 39057.

Beinnes GK, et al. (2025) Differential neural decoding of alarm and avoidance information from vocal alarm calls in humans. Communications biology, 8(1), 818.

Zhu J, et al. (2025) Neural architecture of social punishment: Insights from a queue-jumping scenario. iScience, 28(3), 111988.

Li Y, et al. (2025) The neural correlates of logical-mathematical symbol systems processing resemble those of spatial cognition more than language processing. iScience, 28(4), 112016.

Garlichs A, et al. (2024) Prediction error processing and sharpening of expected information across the face-processing hierarchy. Nature communications, 15(1), 3407.

Fr??hholz S, et al. (2024) Psychoacoustic and Archeoacoustic nature of ancient Aztec skull whistles. Communications psychology, 2(1), 108.

Gayet S, et al. (2022) Preparatory attention incorporates contextual expectations. Current biology : CB, 32(3), 687.

Kuhl U, et al. (2021) Mathematical learning deficits originate in early childhood from atypical development of a frontoparietal brain network. PLoS biology, 19(9), e3001407.

Peer M, et al. (2021) The human brain uses spatial schemas to represent segmented environments. *Current biology : CB*, 31(21), 4677.

Skeide MA, et al. (2020) Neurobiological origins of individual differences in mathematical ability. *PLoS biology*, 18(10), e3000871.

Zhang S, et al. (2020) Pain Control by Co-adaptive Learning in a Brain-Machine Interface. *Current biology : CB*, 30(20), 3935.

Pischedda D, et al. (2020) The Effect of Counterfactual Information on Outcome Value Coding in Medial Prefrontal and Cingulate Cortex: From an Absolute to a Relative Neural Code. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 40(16), 3268.