

# Resource Summary Report

Generated by [nidm-terms](#) on Jul 28, 2026

## Forward: Accurate finite element electromagnetic head models

RRID:SCR\_014109

Type: Tool

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### Proper Citation

Forward: Accurate finite element electromagnetic head models (RRID:SCR\_014109)

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### Resource Information

**URL:** <http://www.nitrc.org/projects/forward/>

**Proper Citation:** Forward: Accurate finite element electromagnetic head models (RRID:SCR\_014109)

**Description:** A project which aims to simplify the preparation of accurate electromagnetic head models for EEG forward modeling. It builds off of the seminal SimNIBS tool for electromagnetic field modelling of transcranial magnetic stimulation and transcranial direct current stimulation. Human skin, skull, cerebrospinal fluid, and brain meshing pipelines have been rewritten with Nipype to ease access parallel processing and to allow users to start/stop the workflows. Conductivity tensor mapping from diffusion-weighted imaging is also included.

**Synonyms:** Forward

**Resource Type:** software application, simulation software, software resource

**Keywords:** model, simulation software, electromagnetic head model, eeg forward modeling, mapping

**Funding:** Belgian National Fund for Scientific Research ;  
Marie Curie Initial Training Network in Neurophysics PITN-GA-2009-238593

**Resource Name:** Forward: Accurate finite element electromagnetic head models

**Resource ID:** SCR\_014109

**License:** GNU GPL v2

**Record Creation Time:** 20220129T080319+0000

**Record Last Update:** 20260728T043433+0000

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## Ratings and Alerts

No rating or validation information has been found for Forward: Accurate finite element electromagnetic head models.

No alerts have been found for Forward: Accurate finite element electromagnetic head models.

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## Data and Source Information

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

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## Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Yang B, et al. (2025) Identifying nexilin as a central gene in neutrophil-driven abdominal aortic aneurysm pathogenesis. *Molecular medicine (Cambridge, Mass.)*, 31(1), 120.

Demetriadou A, et al. (2025) YME1L1 Dysfunction Associated With 3-Methylglutaconic Aciduria. *Journal of inherited metabolic disease*, 48(3), e70029.

Shi B, et al. (2025) EccDNA-Driven VPS41 Amplification Alleviates Genotoxic Stress via Lysosomal KAI1 Degradation. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 12(25), e2501934.

Dormegny-Jeanjean LC, et al. (2025) Individualizing rTMS in treatment-resistant depression from patient-specific perfusion abnormalities a proof-of-concept randomized trial in comparison to standard rTMS and tDCS. *European archives of psychiatry and clinical neuroscience*.

Martinez-Molina MP, et al. (2024) Lateral prefrontal theta oscillations causally drive a computational mechanism underlying conflict expectation and adaptation. *Nature communications*, 15(1), 9858.

Grob AM, et al. (2024) Causal role of the angular gyrus in insight-driven memory reconfiguration. *eLife*, 12.

Ahn B, et al. (2022) Scavenging mitochondrial hydrogen peroxide by peroxiredoxin 3 overexpression attenuates contractile dysfunction and muscle atrophy in a murine model of accelerated sarcopenia. *Aging cell*, 21(3), e13569.

Wang J, et al. (2020) Inhibition of PLK4 might enhance the anti-tumour effect of bortezomib on glioblastoma via PTEN/PI3K/AKT/mTOR signalling pathway. *Journal of cellular and molecular medicine*, 24(7), 3931.