

Resource Summary Report

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lme4

RRID:SCR_015654

Type: Tool

Proper Citation

lme4 (RRID:SCR_015654)

Resource Information

URL: <https://cran.r-project.org/web/packages/lme4/index.html>

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Description: Software R package. Fit linear and generalized linear mixed-effects models. The models and their components are represented using S4 classes and methods. The core computational algorithms are implemented using the 'Eigen' C++ library for numerical linear algebra and 'RcppEigen' "glue."

Synonyms: lme4, lme4.0, lme4: Linear Mixed-Effects Models using 'Eigen' and S4, lme4: Linear Mixed-Effects Models, R package: lme4

Resource Type: software resource, source code

Keywords: linear mixed-effects model, s4 class, eigen c++ library, r package, r, bio.tools

Availability: Free, Available for download

Resource Name: lme4

Resource ID: SCR_015654

Alternate IDs: biotools:lme4

Alternate URLs: <https://cran.r-project.org/package=lme4>, <https://github.com/lme4/lme4/>, <https://bio.tools/lme4>

License: GPL-3

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Ratings and Alerts

No rating or validation information has been found for lme4.

No alerts have been found for lme4.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 327 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#).

Jani S, et al. (2026) Circulating Neoantigen- and Viral Oncoprotein-Specific CD8+ T Cells Share a Transcriptional Signature. *Cancer immunology research*, 14(1), 22.

Avanessian SC, et al. (2026) IL2/IL15 Signaling Induces NK Cell Production of FLT3LG, Augmenting Anti-PD-1 Immunotherapy. *Cancer immunology research*, 14(1), 122.

Hozer C, et al. (2026) Rank and social context influence sleep in wild chimpanzees. *Current biology : CB*, 36(1), 199.

Choi SE, et al. (2026) The "route cause" of methotrexate-induced brain structure changes in a juvenile mouse model: Comparison of systemic and CNS-targeted chemotherapy. *Neurotoxicology*, 112, 103363.

Chen RS, et al. (2025) How Can We Make Scientific Events More Inclusive? Insights From Q&A Sessions and Surveys From an International Conference. *Ecology and evolution*, 15(7), e71588.

Faini G, et al. (2025) CHLOK: a chemigenetic multicolor labeling system to visualize neuronal birthdate and circuit integration. *Research square*.

Folch-Sanchez D, et al. (2025) Disentangling eye movement desensitization and reprocessing mechanisms of action: The impact of eye movements in the eye blink conditioning task. *Psychology and psychotherapy*, 98(4), 1005.

Caruana N, et al. (2025) The temporal context of eye contact influences perceptions of communicative intent. *Royal Society open science*, 12(7), 250277.

Gonzalez-Lozano MA, et al. (2025) EndoMAP.v1 charts the structural landscape of human early endosome complexes. *Nature*, 643(8070), 252.

Awasthi BW, et al. (2025) The network response to Egf is tissue-specific. *iScience*, 28(4), 112146.

Cheloni G, et al. (2025) Durable response to CAR T is associated with elevated activation and clonotypic expansion of the cytotoxic native T cell repertoire. *Nature communications*, 16(1), 4819.

Clermont J, et al. (2025) Acceleration Data Reveal Behavioural Responses to Hunting Risk in Scandinavian Brown Bears. *Ecology and evolution*, 15(6), e71489.

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

Kroehling L, et al. (2025) A highly resolved integrated single-cell atlas of HPV-negative head and neck cancer. *bioRxiv : the preprint server for biology*.

Yao JK, et al. (2025) Visuospatial computations vary by category and stream and continue to develop in adolescence. *bioRxiv : the preprint server for biology*.

Campos JC, et al. (2025) Unveiling the effects of landscape-fire interactions on functional diversity in a Southern European mountain. *Ecological applications : a publication of the Ecological Society of America*, 35(1), e3059.

Boldt A, et al. (2025) Transdiagnostic compulsivity is associated with reduced reminder setting, only partially attributable to overconfidence. *eLife*, 13.

Smith JC, et al. (2025) A two-year study of Salmonella in four natural watersheds highlights the need for increased environmental Salmonella surveillance to close the One Health loop. *Applied and environmental microbiology*, 91(12), e0177025.

Micheau L, et al. (2025) New Model of Disuse-Induced Bone Density Loss in Horses. *Animals : an open access journal from MDPI*, 15(21).

Brar G, et al. (2025) High abundance of lactobacilli in the gut microbiome of honey bees during winter. *Scientific reports*, 15(1), 7409.