

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: source code, software resource

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

Funding:

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 265 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

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.

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

Kirkland M, et al. (2025) Extreme migratory connectivity and apparent mirroring of non-breeding grounds conditions in a severely declining breeding population of an Afro-Palearctic migratory bird. *Scientific reports*, 15(1), 3307.

Montagne JM, et al. (2025) CD137 agonism enhances anti-PD1 induced activation of expanded CD8+ T cell clones in a neoadjuvant pancreatic cancer clinical trial. *iScience*, 28(1), 111569.

Benedict J, et al. (2025) The Lateral Habenula Is Necessary for Maternal Behavior in the Naturally Parturient Primiparous Mouse Dam. *eNeuro*, 12(1).

Burnham KL, et al. (2024) eQTLs identify regulatory networks and drivers of variation in the individual response to sepsis. *Cell genomics*, 4(7), 100587.

Gonzalez-Kozlova E, et al. (2024) Tumor-Immune Signatures of Treatment Resistance to Brentuximab Vedotin with Ipilimumab and/or Nivolumab in Hodgkin Lymphoma. *Cancer research communications*, 4(7), 1726.

Viengkhou B, et al. (2024) The brain microvasculature is a primary mediator of interferon- γ neurotoxicity in human cerebral interferonopathies. *Immunity*, 57(7), 1696.

Gómez-Bañuelos E, et al. (2024) Uncoupling interferons and the interferon signature explains clinical and transcriptional subsets in SLE. *Cell reports. Medicine*, 5(5), 101569.

Du J, et al. (2024) Germline Cas9 promoters with improved performance for homing gene drive. *Nature communications*, 15(1), 4560.

Mourra D, et al. (2024) Cerebellar transcranial AC stimulation produces a frequency-dependent bimodal cerebellar output pattern. *Research square*.

Messaoudene M, et al. (2024) The DAV132 colon-targeted adsorbent does not interfere with plasma concentrations of antibiotics but prevents antibiotic-related dysbiosis: a randomized phase I trial in healthy volunteers. *Nature communications*, 15(1), 8083.

Yao Z, et al. (2024) Reactivating cue approached positive personality traits during sleep promotes positive self-referential processing. *iScience*, 27(7), 110341.

Dunham SJB, et al. (2024) Sex-specific associations between AD genotype and the microbiome of human amyloid beta knock-in (hA β -KI) mice. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 20(7), 4935.

Massenet M, et al. (2024) Puppy whines mediate maternal behavior in domestic dogs. *Proceedings of the National Academy of Sciences of the United States of America*, 121(22), e2316818121.

Kadam PS, et al. (2024) Single-Mitochondrion Sequencing Uncovers Distinct Mutational Patterns and Heteroplasmy Landscape in Mouse Astrocytes and Neurons. *bioRxiv : the preprint server for biology*.

Rader JA, et al. (2024) Turkey vultures tune their airspeed to changing air density. *The Journal of experimental biology*, 227(15).

Young FJ, et al. (2024) Enhanced long-term memory and increased mushroom body plasticity in *Heliconius* butterflies. *iScience*, 27(2), 108949.

Llorente-Saguer I, et al. (2024) A data-driven framework for biomarker discovery applied to optimizing modern clinical and preclinical trials on Alzheimer's disease. *Brain communications*, 6(6), fcae438.

Benedict J, et al. (2024) The lateral habenula is required for maternal behavior in the mouse dam. *bioRxiv : the preprint server for biology*.