Resource Summary Report

Generated by NIF on Apr 27, 2025

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

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

Record Creation Time: 20220129T080326+0000

Record Last Update: 20250425T060127+0000

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 NIF.

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).

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.

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

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

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.

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-? neurotoxicity in human cerebral interferonopathies. Immunity, 57(7), 1696.

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

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

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

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

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).

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.

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.