

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 411 mentions in open access literature.

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

Rasmussen IE, et al. (2026) Impact of a 12-week high-intensity interval training intervention on cardiac structure and function after COVID-19 at 12-month follow-up. *Experimental physiology*, 111(6), 2975.

Novak TE, et al. (2026) Caloric density alters meiotic recombination rate in *Drosophila melanogaster*. *Genetica*, 154(1), 7.

Dickson PE, et al. (2026) Behavioral variation across multiple phases of intravenous cocaine self-administration among genetically diverse mouse populations. *Psychopharmacology*, 243(6), 1513.

Maunder KG, et al. (2026) Random and non-random variation in flower colour along an urban-rural gradient in the introduced mustard *Hesperis matronalis*. *Annals of botany*, 137(5), 1290.

Geessinck QF, et al. (2026) Acidification, warming and cadmium exposure disrupt zebrafish calcium metabolism, bone formation and swimming activity. *The Journal of experimental biology*, 229(5).

Jiang K, et al. (2026) Soil microbial community assembly drives ecosystem multifunctionality under grazing disturbance by regulating diversity and network structure. *Scientific reports*, 16(1).

Smith G, et al. (2026) Similarities (and Differences) in the Learning Patterns of Single-Word Reading of an Alphabetic Orthography in Monolingual and Bilingual Primary School Children: A Cross-Sectional Study. *Brain sciences*, 16(4).

Kennedy-Barnes E, et al. (2026) Somatic yoga therapy for functional neurological disorder: feasibility randomised controlled trial. *BJPsych open*, 12(4), e151.

Zeng PYF, et al. (2026) Understanding and overcoming innate and acquired MAPK inhibition resistance in anaplastic thyroid cancer. *Cell reports. Medicine*, 7(6), 102820.

Schwarzer J, et al. (2026) Ecosystem state and soil depth determine the microbial community response to warming in coastal marsh soils. *iScience*, 29(6), 116208.

Patro S, et al. (2026) Linking morphology and performance: skeletal growth and sex-specific form-function relationships in an agamid lizard. *The Journal of experimental biology*, 229(9).

Sun Z, et al. (2026) Intrapartum caesarean delivery and childhood BMI trajectories in relation to the infant gut microbiome in the VDAART prospective birth cohort. *EBioMedicine*, 129, 106347.

Montesanto F, et al. (2026) Cnidarian-algal partnerships structure bacterial communities during strobilation in *Cassiopea xamachana*. *ISME communications*, 6(1), ycag147.

Persson E, et al. (2026) Postnatal temperature triggers predictable thermoregulatory shifts in birds without a trade-off between heat and cold tolerance. *The Journal of experimental biology*, 229(9).

W??lde J, et al. (2026) Heat stress impacts affective processes and risk-taking behaviour. *Scientific reports*, 16(1).

Huang KK, et al. (2026) Mutational Signatures and Clonal Hematopoiesis in Intestinal Metaplasia across Countries with Varying Stomach Cancer Incidence. *Cancer discovery*, 16(3), 497.

Kelley RK, et al. (2026) T-Cell Receptor and Immune Gene Expression Pharmacodynamics for Durvalumab Alone and with Tremelimumab or Bevacizumab in Unresectable Hepatocellular Carcinoma. *Clinical cancer research : an official journal of the American Association for Cancer Research*, 32(4), 694.

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).

Larter LC, et al. (2026) Cadences of the collective: conspecific stimulation patterns interact with endogenous rhythms to cue socially mediated response shifts. *The Journal of experimental biology*, 229(1).

Shen R, et al. (2026) Landscape-socioeconomic feedback mechanisms in Sichuan's river basins. *iScience*, 29(4), 115186.