Resource Summary Report

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MRC Laboratory of Molecular Biology

RRID:SCR_003527
Type: Tool

Proper Citation

MRC Laboratory of Molecular Biology (RRID:SCR_003527)

Resource Information

URL: http://www2.mrc-lmb.cam.ac.uk/

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Description: The MRC Laboratory of Molecular Biology (LMB) has long been, and remains, a world-class research laboratory. Our primary goal is to understand biological processes at the molecular level, through the application of methods drawn from physics, chemistry and genetics. This quest extends from structural studies of individual macromolecules, through their interactions and beyond to the functioning of subcellular systems, cells and multicellular systems in whole organisms, with the ultimate aim of using this knowledge to tackle specific problems in human health and disease. The LMB is one of the birthplaces of modern molecular biology. Many techniques were pioneered at the laboratory, most notably methods for determining the three-dimensional structure of proteins and DNA sequencing. Whole genome sequencing was initiated at the LMB. Another landmark discovery was the invention of monoclonal antibodies. Over the years, the work of LMB scientists has attracted 9 Nobel Prizes, shared between 13 LMB scientists, as well as numerous other prizes and scientific awards.

Abbreviations: LMB

Resource Type: institution

Keywords: FASEB list

Funding: MRC

Resource Name: MRC Laboratory of Molecular Biology

Resource ID: SCR_003527

Alternate IDs: Wikidata: Q185800, grid.42475.30, nif-0000-38323, ISNI: 0000 0004 0605 769X

Alternate URLs: https://ror.org/00tw3jy02

Record Creation Time: 20220129T080219+0000

Record Last Update: 20260912T195559+0000

Ratings and Alerts

No rating or validation information has been found for MRC Laboratory of Molecular Biology.

No alerts have been found for MRC Laboratory of Molecular Biology.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 455 mentions in open access literature.

Listed below are recent publications. The full list is available at SPARC SAWG .

Chen R, et al. (2026) Pathological TDP-43 filaments accumulate at synapses and cause synaptic dysfunction. bioRxiv : the preprint server for biology.

Kimura T, et al. (2026) Repetitive mild traumatic brain injury with the closed-head impact model of engineered rotational acceleration (CHIMERA) promotes tau pathology in tau transgenic mice and its propagation in brains injected with tau fibrils. Acta neuropathologica communications, 14(1), 13.

Beale AD, et al. (2026) A cellular basis for the mammalian nocturnal-diurnal switch. Science (New York, N.Y.), 391(6788), eady2822.

Burgos AA, et al. (2026) A Simplified Strategy for Nanobody Production and Use Based on Functional GST-Nanobody Fusion Proteins. Biomolecules, 16(2).

Chang P, et al. (2026) Differential effects of sex and age on daily and infradian rhythms of mice. The Journal of physiology, 604(5), 1915.

Fischbach A, et al. (2026) Noncovalent PAR Binding Guides Proteins to PARP1-Mediated PARylation. ACS chemical biology, 21(4), 779.

Rao L, et al. (2026) Adaptor-mediated recruitment of three dyneins to dynactin enhances force generation. Nature cell biology, 28(3), 480.

Komarek J, et al. (2026) Selective targeting of cortactin tandem repeat acetylation by human lysine deacetylases. The FEBS journal, 293(12), 3528.

Spokaite S, et al. (2026) A novel RAB5 binding site in human VPS34-CII that is likely the primordial site in eukaryotic evolution. eLife, 15.

Yang Y, et al. (2025) Canagliflozin alleviates progestin resistance by suppressing RAR?/CRABP2 signaling in THRB knockout endometrial cancer cells. Frontiers in pharmacology, 16, 1573032.

Fuchsberger T, et al. (2025) Dopamine increases protein synthesis in hippocampal neurons enabling dopamine-dependent LTP. eLife, 13.

Volkmann P, et al. (2025) Integrity of the circadian clock determines regularity of high-frequency and diurnal LFP rhythms within and between brain areas. Molecular psychiatry, 30(5), 1859.

Zhang MY, et al. (2025) Distinct amyloid fibril structures formed by ALS-causing SOD1 mutants G93A and D101N. EMBO reports, 26(19), 4820.

Wu JW, et al. (2025) Development of a robust, physiologically relevant neuronal tau aggregation assay for tau-related drug discovery. The Journal of biological chemistry, 301(12), 110853.

Chen Q, et al. (2025) Structure of the Gq-coupled adhesion receptor ADGRL4. Nature communications, 17(1), 907.

Martí-Marí O, et al. (2025) A Tetrapodal Tryptophan Derivative with Multiple Exposed Free Carboxylic Acids Blocks Host Cell Entry of Omicron SARS-Cov-2 and Respiratory Syncytial Virus. ACS omega, 10(46), 56830.

Foo S, et al. (2025) A temperature-sensitive mutant screen reveals a translational stress-induced cell-cycle arrest in a thermophilic archaeon. Molecular biology of the cell, 36(9), ar106.

Bal?kç? E, et al. (2025) Structure of the Nipah virus polymerase complex. The EMBO journal, 44(2), 563.

Caño Muñiz SE, et al. (2025) Metabolic control of porin permeability influences antibiotic resistance in Escherichia coli. Nature microbiology, 10(12), 3202.

Wicher G, et al. (2025) Lack of ST2 aggravates glioma invasiveness, vascular abnormality, and immune suppression. Neuro-oncology advances, 7(1), vdaf010.