

Resource Summary Report

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LAMP

RRID:SCR_001740

Type: Tool

Proper Citation

LAMP (RRID:SCR_001740)

Resource Information

URL: <http://www.sph.umich.edu/csg/abecasis/LAMP/>

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Description: Software for linkage and association modeling in pedigrees that uses a maximum likelihood model to extract information on genetic linkage and association from samples of unrelated individuals, sib pairs, trios and larger pedigrees (Li et al, 2005; Li et al, 2006). It provides estimates of genetic model parameters and powerful tests of association in settings where population stratification is not a concern.

Abbreviations: LAMP

Synonyms: Linkage and Association Modeling in Pedigrees

Resource Type: software application, software resource

Defining Citation: [PMID:16642434](#)

Keywords: gene, genetic, genomic, c++, unix, linux, windows, macos, linkage, association, modeling, pedigree

Availability: Free, Available for download, Freely available

Resource Name: LAMP

Resource ID: SCR_001740

Alternate IDs: nlx_154103

Record Creation Time: 20220129T080209+0000

Record Last Update: 20260727T040305+0000

Ratings and Alerts

No rating or validation information has been found for LAMP.

No alerts have been found for LAMP.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1157 mentions in open access literature.

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

Wang X, et al. (2025) Review of Methods for Studying Viruses in the Environment and Organisms. *Viruses*, 17(1).

He X, et al. (2025) Development of Duplex Loop-Mediated Isothermal Amplification with Hydroxynaphthol Blue for Detection of Infectious Spleen and Kidney Necrosis Virus and *Aeromonas hydrophila* in Chinese Perch (*Siniperca chuatsi*). *Microorganisms*, 13(3).

Hong J, et al. (2025) Study on lightweight strategies for L-YOLO algorithm in road object detection. *Scientific reports*, 15(1), 7649.

Taguchi K, et al. (2025) In silico prediction of loop-mediated isothermal amplification using a generalized linear model. *Synthetic biology (Oxford, England)*, 10(1), ysaf007.

Gwak YS, et al. (2025) Development of a Rapid On-Site Method for the Detection of *Kazachstania servazzii* and *Candida sake* in Kimchi Using Loop-Mediated Isothermal Amplification. *Journal of microbiology and biotechnology*, 35, e2502029.

Yuan H, et al. (2025) Predictive role of preoperative parameters in LAMP outcomes for myelopathy caused by COPLL. *BMC musculoskeletal disorders*, 26(1), 341.

Wigman JTW, et al. (2025) Digital health technologies in the accelerating medicines Partnership?? Schizophrenia Program. *Schizophrenia (Heidelberg, Germany)*, 11(1), 83.

Tungkunaruk P, et al. (2025) Fluorescent and electrochemical paper based dual sensor for simple and low cost detection of human papillomavirus DNA without denaturation. *Scientific reports*, 15(1), 19395.

Zhang A, et al. (2025) A Microfluidic Chip-Based Integrated Device Combining Aerosol Sampling and LAMP-CRISPR Detection for Airborne Virus Surveillance. *Biosensors*, 15(8).

Sandetskaya N, et al. (2025) CampyTube: Seamless Integration of a Molecular Test and Lateral Flow Detection of *Campylobacter* in a Single Vial. *Biosensors*, 15(8).

Zimmermann M, et al. (2025) Development of loop-mediated isothermal amplification (LAMP) assays for the detection of diarrheagenic *E. coli* in wastewater. *Applied and*

environmental microbiology, 91(9), e0088025.

Wang H, et al. (2025) Rapid and visual detection of transmissible gastroenteritis virus using a CRISPR/Cas12a system combined with loop-mediated isothermal amplification. BMC veterinary research, 21(1), 234.

Vas Nunes J, et al. (2025) Suspected Buruli ulcer cases in Tonkolili District, Sierra Leone- a prospective cohort study. Infection, 53(5), 2073.

Eladham MW, et al. (2025) The role of gut leakage and immune cell miss-homing on gut dysbiosis-induced lung inflammation in a DSS mice model. PloS one, 20(5), e0324230.

Marabella M, et al. (2025) Genome guided LAMP assay for rapid and reliable detection of *Xanthomonas axonopodis* pv. *vasculorum*. Scientific reports, 15(1), 23093.

Qiao L, et al. (2025) The clinical features, muscle pathology, and role of autophagy in anti-Ku-positive patients. Frontiers in immunology, 16, 1608735.

Morishita S, et al. (2025) Changes of laminar angle in cervical double-door laminoplasty - comparison of conventional method and suture anchor method using computed tomography images- a pilot study. BMC musculoskeletal disorders, 26(1), 725.

Zhang Y, et al. (2025) Innovative nucleic acid detection of *Clostridioides difficile* utilizing the PAM-unconventional, one-step LAMP/CRISPR-Cas12b detection platforms. Frontiers in cellular and infection microbiology, 15, 1594271.

Fang Y, et al. (2025) Rapid detection of *Mycoplasma pneumoniae* CARDS toxin in clinical respiratory specimens by a loop-mediated isothermal amplification assay. Frontiers in cellular and infection microbiology, 15, 1496829.

Thakur M, et al. (2025) Development of loop mediated isothermal amplification assay for rapid detection and its comparison with PCR techniques for *Ancylostoma duodenale*. Scientific reports, 15(1), 33158.