Resource Summary Report

Generated by NIF on Sep 17, 2026

EarLab

RRID:SCR_001798
Type: Tool

Proper Citation

EarLab (RRID:SCR_001798)

Resource Information

URL: https://www.bu.edu/tech/support/research/whats-happening/highlights/earlab/

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Description: Freely-accessible auditory databases as well as custom designed modeling and data analysis software tools. A fully functional online auditory modeling environment is also available, as well as downloadable models in several languages. The models cover many aspects of auditory function and at many different levels of detail ranging from multi-compartment celluar models to high-level abstractions of large portions of the auditory pathway. Currently a few models are available that can be run online and others are available for downloading. EarLab also provides custom cross-platform software for creating your own distributed auditory modeling environment, as well as software for analyzing the results from experimentation. A database of auditory modules is available for online use or download for the distributed auditory modeling environment, as well as instructions and specifications for creating your own modules. All these databases and custom software tools can be used in a wide variety of hearing research applications. This unique resource provides a wealth of information on auditory processing in humans and other animals. Mathematical models are also provided.

Abbreviations: EarLab

Synonyms: EarLab (at) Boston University, EarLab at Boston University, EarLab: A Digital Warehouse of Auditory Models Data, EarLab: A Virtual Hearing Laboratory, A Digital Warehouse of Auditory Models and Data, EarLab: A Digital Warehouse of Auditory Models and Data

Resource Type: analysis service resource, audio track, data analysis service, data or information resource, database, production service resource, service resource, software application, software resource

Keywords: audio, hearing, auditory processing, human, non-human animal, model, ear, sound, auditory model, module, cochlea, middle ear, audiogram

Funding: NIDCD R01DC004731

Availability: Free

Resource Name: EarLab

Resource ID: SCR_001798

Alternate IDs: nif-0000-00101

Old URLs: http://earlab.bu.edu/

Record Creation Time: 20220129T080209+0000

Record Last Update: 20260912T195531+0000

Ratings and Alerts

No rating or validation information has been found for EarLab.

No alerts have been found for EarLab.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Dietz M, et al. (2018) A framework for testing and comparing binaural models. Hearing research, 360, 92.

Wang L, et al. (2012) A modeling study of the responses of the lateral superior olive to ipsilateral sinusoidally amplitude-modulated tones. Journal of the Association for Research in Otolaryngology : JARO, 13(2), 249.