

*The Animal Audiogram Database*: a database and web-portal for presentation and evaluation of animal audiogram data

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Knowledge of hearing abilities is an important part of understanding animal acoustic physiology, behaviour, and ecology. In addition, such knowledge plays a vital role for measuring, predicting, and averting the negative effects of anthropogenic noise. The data represented in audiograms is an important source for such knowledge. Currently, however, this data is available only embedded in the text of individual scientific publications and in various unstandardized formats. This makes it hard to access, compare and integrate such data for scientific analysis.

The *Animal Audiogram Database* is a newly established database that presents audiogram data and metadata about audio-physiological experiments and original publications in a structured and easily accessible way. The database supports a combination of datasets for comparison and analysis of different experiments. Its content is the result of an extensive survey of the scientific literature and manual curation of the audio-physiological data found therein. Focusing currently on vertebrates and underwater environments, the database is intended to serve as a reference source of high-quality audiogram data to be extended further with data from new and legacy experiments.

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