

Open Data for Genome Research: Multiplex Assays of Variant Effect (MAVE)

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Sharing datasets that reveal the function of genomic variants in health and disease has become easier, with the launch of a new, open-source database developed by Australian and North American researchers.

The MaveDB database is a repository for data from experiments - called multiplex assays of variant effect (MAVEs) - that systematically measure the impact of thousands of individual sequence variants on a gene's function.

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[Open-source database enhances genomics research collaboration](#) [4]

An open-source database of genomic variants in health and disease has been developed by Australian and North American researchers to simplify the sharing of this information between academics.

The MaveDB database stores data from multiplex assays of variant effect (MAVE) experiments, which systematically measure the impact of thousands of individual sequence variants on a gene's function. It was developed by researchers from the Walter and Eliza Hall Institute of Medical Research in Melbourne, Australia, as well as the University of

Washington in the US and the University of Toronto in Canada.



[Open-source Database Enhances Genomics Research Collaboration](#) [5]

The MaveDB database is a repository for data from experiments ? called multiplex assays of variant effect (MAVEs) ? that systematically measure the impact of thousands of individual sequence variants on a gene?s function. These experiments can provide valuable information about how proteins produced by that gene function, how variants in that gene may contribute to disease, and how to engineer synthetic versions of naturally occurring proteins that are more effective than the original protein.

MaveDB is the first publicly accessible database for this data. Its development was led by Alan Rubin from the Walter and Eliza Hall Institute, Australia, Associate Professor Douglas Fowler from the University of Washington, US, and Professor Frederick Roth from the University of Toronto, Canada.

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