

Knowledge Bases to Support Knowledge Discovery in Aging: The Telemakus Knowledgebase System

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The ability to find relevant research findings from disparate research areas has become increasingly difficult and fragmentation can result in missing relevant research from seemingly unrelated domains. Knowledge bases to support research in Biomarkers in Alzheimer's Disease and Caloric Restriction in Aging are now freely available from the University of Washington Telemakus Research Program. These knowledge bases support intuitive searching of the primary research literature and display of study methods, study population description, and easy access (when available) to the data tables and figures from the original articles as well as links to relevant genomic information. Interactive graphical maps of research findings support exploration of research connections across the domain. A variety of questions can be posed to the knowledgebase including: Has anyone ever reported data to link x and y? Has that linkage been reported in humans? What other connections have been reported that link to x and/or to y? What are the research findings that have been reported by a specific author?... In a specific animal model?

The development of this knowledgebase system has been informed by input from leading researchers in aging from across the United States and provides a unique and time-saving view of primary research methods and research connections.

Telemakus knowledgebases are freely available at <http://www.telemakus.net/>. We are seeking partners to develop additional knowledgebases to support researchers in aging.

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