National Institutes of Health

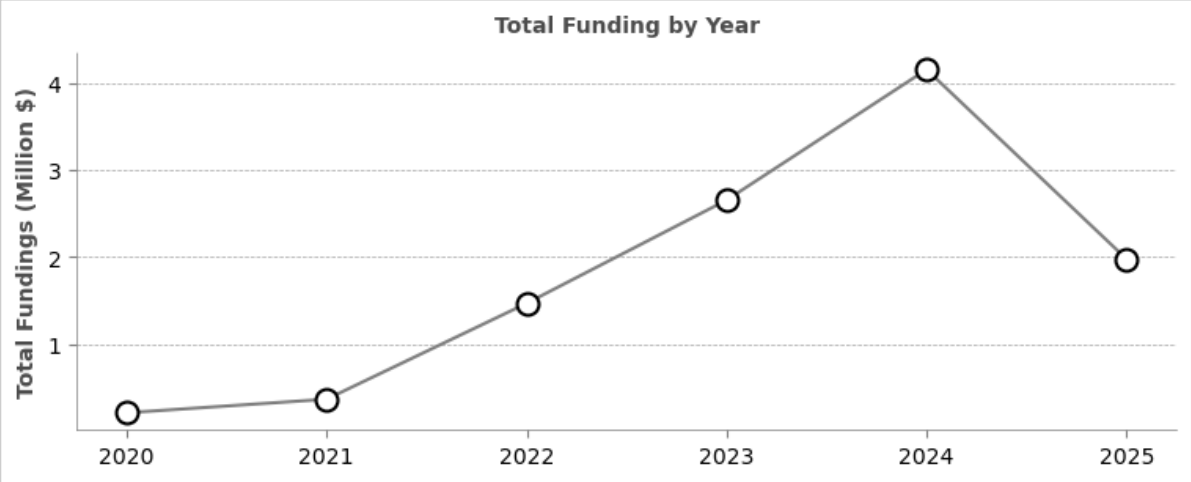
ODSS-NIDDK Collaboration

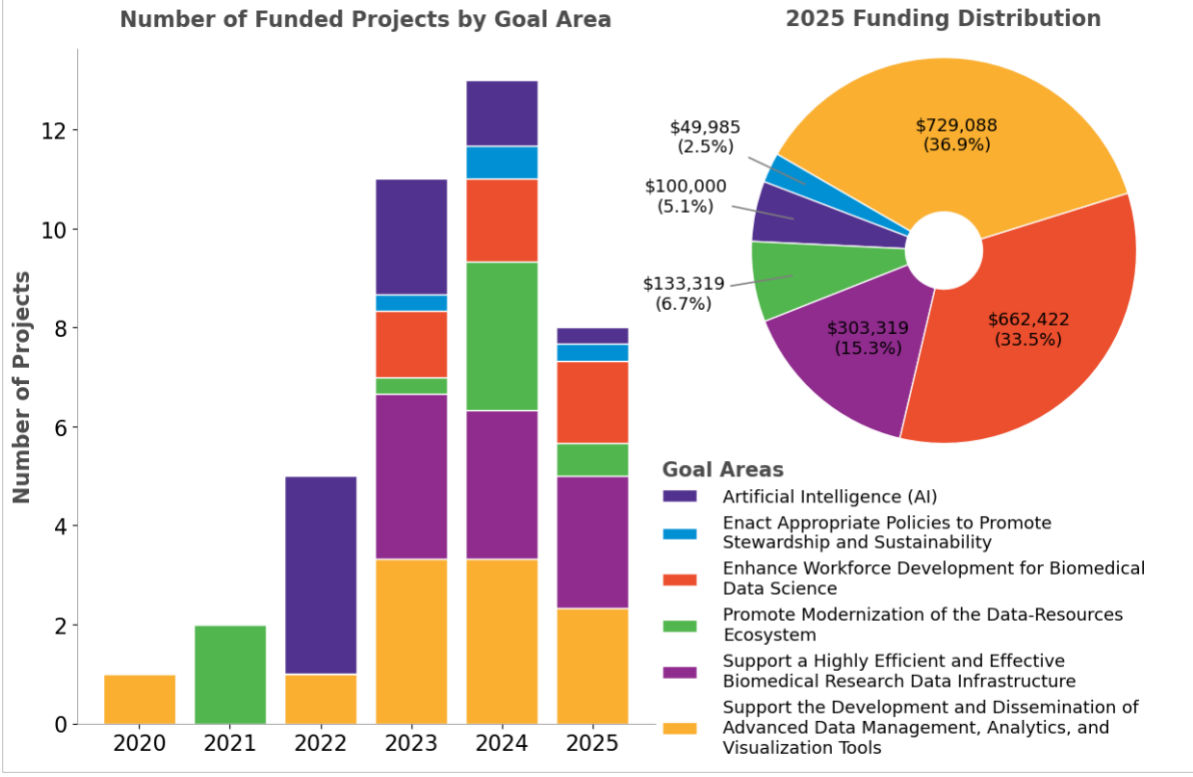
2025

2025 ODSS Funding for NIDDK

In 2025, ODSS provided $1,978,133 in funding to NIDDK, supporting 8 co-funding awards across 6 goal areas.

- **Funding Trend:** Funding has increased steadily by more than 9-fold from 2020 to 2025 with a peak in 2024.
- **Strategic Goal Trends**: NIDDK and ODSS partnerships have focused on developing advanced tools, data infrastructure, AI and workforce development, with substantive investments in data resource ecosystem in recent years.

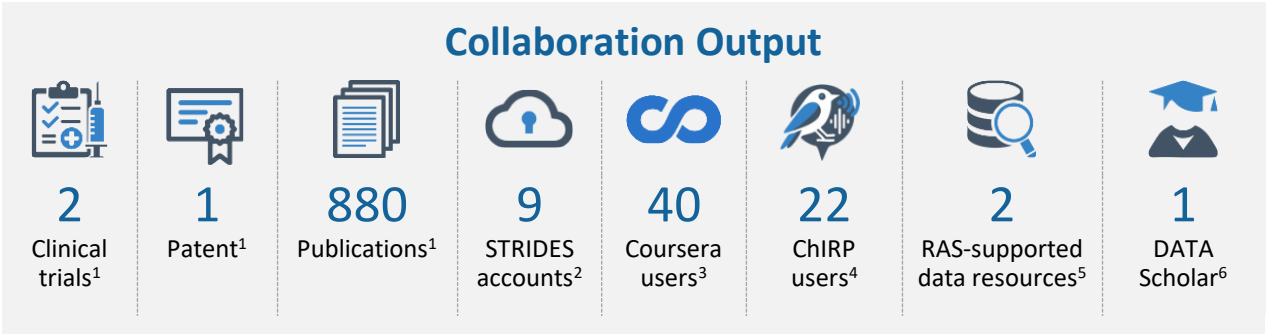




Co-funding Highlights

- **Interdisciplinary Systems-based Training for Precision Nutrition (Grant #: 5 T32DK137525-03).** ODSS provided $498,891 to NIDDK to support the training of predoctoral and postdoctoral students to acquire skills to apply AI techniques to big health data for precision nutrition. This co-funding supports two goal areas — advanced tools and workforce development.
- **The Hawaii Advanced Training in Artificial Intelligence for Precision Nutrition Science Research (AIPrN) (Grant #: 5 T32DK137523-03).** ODSS provided $459,287 to NIDDK to support the training of doctoral scientists with cross-disciplinary breadth and knowledge in AI for precision nutrition science research, with special attention to the unique populations found in Hawaii. This co-funding supports two goal areas — advanced tools and workforce development.
- **Metabolomics Workbench - National Metabolomics Data Repository (Grant #: 5 U24DK141185-02).** ODSS provided $250,000 co-funding to NIDDK for making Metabolomics Workbench a sustainable repository and resource, and to support efforts to give citizen scientists access to appropriate data, tools, and educational resources. This co-funding supports three goal areas — data infrastructure, data resource ecosystem, and workforce development.

Collaboration Output



[1] Data sources: QVR and iTools. Fiscal Years: 2020-2025. These are output numbers associated with core awards, filtered to include only outputs that occurred after an ODSS-associated application was funded.
[2] (Collaborative support from CIT and ODSS) The NIH Science and Technology Research Infrastructure for Discovery, Experimentation, and Sustainability (STRIDES) Initiative is a partnership with commercial cloud service providers (CSPs) to allow NIH-supported researchers to affordably explore the use of cloud services and environments to streamline NIH data use.
[3] To enhance NIH workforce training, ODSS collaborates with NLM to fund and manage the NIH Coursera Program that offers a limited number of free Coursera licenses to NIH staff. Over the course of FY25, there were a total of 1388 Coursera users, covering all 27 ICs. Please note that Coursera paused on 9/6/2025 due to contract processing delay but will restart as soon as acquisition is processed in the new fiscal year.
[4] ODSS, in collaboration with OD, CIT, NHLBI, and NIA, developed an NIH community pilot LLM chatbot called ChIRP. ChIRP is funded by ODSS and OIR, aiming to create a secure environment for NIH staff to safely explore how generative AI technologies. As of November 2025, ChIRP had 863 active users.
[5] (Collaborative support from CIT and ODSS) The NIH Researcher Auth Service (RAS) is part of NIH's efforts toward a modernized, FAIR, biomedical data ecosystem. RAS facilitates access to participating NIH data assets and repositories in a consistent, secure, and user-friendly manner and provides researchers with a single sign-on experience.
[6] ODSS sponsors the Data and Technology Advancement (DATA) National Service Scholar Program to recruit and engage advanced data science experts to come to the NIH for one or two years and help tackle challenging biomedical and health data problems. DATA Scholars are supported 50% by ODSS and 50% by the ICO where they are matched.

Collaboration Highlights

- ODSS led NIH-wide collaborations to develop and implement common data elements (CDEs) in priority areas such as chronic, autoimmune, and immune-mediated conditions. Dr. Kenneth Wilkins serves as a co-chair for the NIH CDE Development Working Group.
- Jia Nie, a DATA Scholar at NIDDK is leading NIH's efforts to integrate AI-driven solutions into precision medicine for Type 1 Diabetes through the ODSS CDE Project. Her work has resulted in the development of a dynamic knowledge graph and a searchable portal for diabetes data in collaboration with dkNET and PanKbase.