

ARPA-H Initiatives at a Glance: Major Projects and Project Objectives as of May 2026

Active Programs

Hearing Enhancement through ARTificially Intelligent Nuerotechnology (HEARING)

- Create smart, minimally invasive, AI-powered devices that interface with the brain to restore lost hearing, improve existing hearing, or modify innate hearing.
Launched 05/07/2026: [Press Release](#)

Intelligent Generator of Research (IGoR)

- Develop a new AI platform that identifies knowledge gaps surrounding complex disease research to generate new hypotheses and standardized experiments for scientists to test.
Launched 05/05/2026: [Press Release](#)

Technology InteGrator and AcceleratoR (TIGAR)

- Create new methods and technologies to store organs and tissues for transplantation across a wide range of temperatures, moving away from traditional cryogenic options.
Launched: 04/23/2026: Press Release – *does not currently have one available online.*

Systematic Targeting of MicroPlastics (STOMP)

- Develop a toolbox to measure microplastics in the body and understand how they reach and impact organ systems, as well as safe interventions to remove them.
Launched: 04/02/2026: [Press Release](#)

One Comprehensive Universal Radiotherapy for Everyone (1-CURE)

- Develop a single, low-cost, and accessible radiotherapy approach to battle local, metastatic, and radiotherapy-resistant cancer. Utilizing advances in targeted biomaterials and AI, this program aims to shorten care from months to days, while ensuring treatment remains as effective as possible.
Launched: 3/16/2026: [Press Release](#)

Developing self-monitoring ecosystems to “know thyself” (Delphi)

- Advance next generation biosensors capable of tracking deep biological signals in real time. This program aims to create modular, low-cost sensors to monitor hormones, therapeutic drug levels, and immune markers to enable earlier detection of disease and more precise treatments.
Launched: 3/10/2026: [Press Release](#)

[Critical Illness Immunological Reprogramming and Control Point Learning Engine \(CIRCLE\)](#)

- Leverage AI tools and rapid tests to monitor how critically ill patients' immune systems change in real time. This program aims to develop patient-specific computational models of immune systems to better diagnose the illness and provide care, aiming to reduce deaths from severe illness.

Launched: 2/17/2026: [Press Release](#)

[BIOmolecular Grammar for protein Aggregation Modulation and Intervention \(BIOGAMI\)](#)

- Decode the “biomolecular grammar” of disordered proteins and develop technologies that force misfolded proteins back into non-harmful structures. This program aims to develop platforms that will predict, prevent, or reverse misfolding of proteins early, aiming to halt diseases such as Alzheimer’s or ALS before they progress.

Launched: 1/30/2026: [Press Release](#)

[Agentic AI-Enabled Cardiovascular Care Transformation \(ADVOCATE\)](#)

- Develop an FDA-authorized agentic artificial intelligence system that can be used 24/7 in cardiovascular care systems. This AI system aims to enable patients across the country, even in counties without a practicing cardiologist, to ask questions about their heart health at any time and receive personalized care.

Launched: 1/13/2026: [Press Release](#)

[BioStabilization Systems \(BoSS\)](#)

- Pioneer new technologies that will allow for production, storage, and shipment of biologic drugs at room temperature, without refrigeration. This program aims to facilitate timely access to life-saving medicines for Americans across the country, especially in remote communities.

Launched: 12/04/2025: [Press Release](#) – *does not currently have one available online.*

[Evidence-Based Validation & Innovation for Rapid Therapeutics in Behavioral Health \(EVIDENT\)](#)

- Collect longitudinal data from registered clinical trials to examine the impact of interventions on behavioral health. These data is intended to help researchers develop individualized treatment plans and assess how well the interventions improve quality of life.

Launched: 11/21/2025: [Press Release](#)

[Autonomous Interventions and Robotics \(AIR\)](#)

- Develop autonomous robotic systems that can independently perform part or all of a surgical intervention. This program will initially focus on autonomous robotic systems for stroke treatment, with the long-term goal of expanding to microrobots that can treat a variety of other diseases anywhere in the country.

Launched: 11/20/2025: [Press Release](#)

[Making Obstetrics Care Smart \(MOCS\)](#)

- Generate tools to predict fetal health and provide recommendations for intervention to help inform choices for critical labor and delivery care. This program aims to develop a health test via placenta to understand high risk complications during labor and design non-invasive sensors to measure fetal oxygen levels in real-time during delivery.

Launched 11/17/2025: [Press Release](#)

[Genetic Medicines and Individualized Manufacturing for Everyone \(GIVE\)](#)

- Streamline production and reduce the cost of manufacturing RNA-based medicines by developing simple, reliable systems for production and quality control.

Launched 09/25/2025: [Press Release](#)

[Treating Hereditary Rare Diseases with In Vivo Precision Genetic Medicines \(THRIVE\)](#)

- Create affordable, curative treatments for patients with rare inherited diseases by developing new genetic tools and delivery methods to stop or prevent disease before irreparable harm occurs.

Launched 09/25/2025: [Press Release](#)

[Functional Repair of Neocortical Tissue \(FRONT\)](#)

- Utilizing advancements in neuroscience and cellular biology, develop therapies to restore normal brain function for patients with severe or permanent brain damage.

Launched 07/10/2025: [Press Release](#)

[Proactive Solutions for Prolonging Resilience \(PROSPR\)](#)

- Identify biological markers and develop assessment tools to allow researchers to better understand and address the root causes of age-related diseases.

Launched 12/19/2024: [Press Release](#)

[Rare Disease AI/ML for Precision Integrated Diagnostics \(RAPID\)](#)

- Cut the time it takes to diagnose rare diseases by creating AI tools that help doctors and families identify conditions sooner. Utilizes patient data from across the health system to build the largest shared database of rare disease information, supporting both clinical and at-home diagnostic tools.

Launched 12/19/2024: [Press Release](#)

[Ocular Laboratory for Analysis of Biomarkers \(OCULAB\)](#)

- Enhance disease diagnosis and treatment using non-invasive tear tests instead of traditional blood and urine samples. Proposals are accepted across two technical areas: continuous monitoring of the tear duct and precise medication dosing.
Launched 10/18/2024: [Press Release](#)

Computational ADME-Tox and Physiology Analysis for Safer Therapeutics (CATALYST)

- Streamline the drug approval process by using advanced computer modeling to improve drug development, especially for rare diseases. It invites proposals in three areas: drug safety modeling, tools for developing living systems models, and computer simulations of human physiology.
Launched 10/04/2024: [Press Release](#)

Performance and Reliability Evaluation for Continuous Modifications and Useability of Artificial Intelligence (PRECISE-AI)

- Address the need for capabilities that automatically detect and mitigate declines in the accuracy of Machine Learning (ML) models used in healthcare.
Launched 08/29/2024: [Press Release](#)

Platform Optimizing SynBio for Early Intervention and Detection in Oncology (POSEIDON)

- Increase cancer survival rates and decrease cancer-related costs by developing over-the-counter cancer detection in two technical areas: 1) sensors and diagnostic tools that enable detection of over 30 tumors from a single test; 2) low-cost at-home cancer screening kits that would dramatically expand the availability and accessibility of cancer testing.
Launched 08/01/2024: [Press Release](#)

Groundbreaking Lymphatic Interventions and Drug Exploration (GLIDE)

- Develop new therapies that target abnormal lymphatic growth and function, utilizing advances in tissue regeneration, radiology and minimally invasive surgical procedures, and imaging to address disorders that arise from untreated lymphatic disorders.
Launched 07/31/2024: [Press Release](#)

Lymphatic Imaging, Genomics, and Phenotyping Technologies (LIGHT)

- Develop diagnostic tools to accurately assess the health of the lymphatic system, cutting down on misdiagnosed or undiagnosed dysfunction that affects millions of patients each year.
Launched 04/11/2024: [Press Release](#)

Building Resilient Environment for Air and Total Health (BREATHE)

- Create a scalable system capable of monitoring and responding to changes in indoor air quality using diagnostic and biosensor technology to assess the risk of airborne infection transmissions, irritants, and other ailments that impact quality of life.
Launched 04/10/2024: [Press Release](#)

Engineering of Immune Cells Inside the Body (EMBODY)

- Utilizing advances in gene therapy, develop treatments that eliminate time, cost, and access hurdles for patients with various immune system disorders.
Launched 04/02/2024: [Press Release](#)

Personalized Regenerative Immunocompetent Nanotechnology Tissue (PRINT)

- Utilizing advances in regenerative medicine and bioprinting technology, address chronic shortages in transplantable organs by 3D printing personalized, on demand organs that do not require lifetime use of immunosuppressive drugs.
Launched 03/27/2024: [Press Release](#)

ADvanced Analysis for Precision cancer Therapy (ADAPT)

- Develop biomarkers, derived from comprehensive tumor biology measurements and advanced computational approaches, which facilitate adaptation of treatments based on real-time identification of tumor traits.
Launched 03/07/2024: [Press Release](#)

Platform Accelerating Rural Access to Distributed and Integrated Medical Care (PARADIGM)

- Create a scalable vehicle platform to provide advanced medical services outside of the hospital setting to address rural healthcare access issues.
Launched 01/16/2024: [Press Release](#)

Transplantation of Human Eye Allografts (THEA)

- Build on decades of hard-won progress in eye science and neuroscience to achieve successful eye transplantation, with the goal of restoring sight to the blind and visually impaired.
Launched 01/11/2024: [Press Release](#)

Antigens Predicted for Broad Viral Efficacy through Computational Experimentation (APECx)

- Develop broadly effective vaccines to reduce the number of vaccinations and pre-empt the deadly impact of viruses responsible for cancer, pandemics, and other viral threats.
Launched 10/10/2023: [Press Release](#)

Resilient Extended Automatic Cell Therapies (REACT)

- Increase medication effectiveness by developing two devices: one that allows patients to receive personalized single or combination therapies and a second that provides real-time disease-related data to patients and doctors for tracking and making informed medication treatment decisions.
Launched 09/29/2023: [Press Release](#)

ARPA-H BDF Toolbox

- Create a single system to collect, share, and analyze data from thousands of sources to overcome issues with mismatched data sets and research siloes.
Launched 09/13/2023: [Press Release](#)

[Digital Health Security \(DIGIHEALS\)](#)

- Adapt proven technologies developed for national security so those technologies can be used to prevent cyberattacks and, if a widespread attack does happen to a medical facility, to lessen its effects to ensure patients continue to receive care.
Launched 08/17/2023: [Press Release](#)

[Precision Surgical Interventions \(PSI\)](#)

- Reduce instances in which a tumor is only partially removed, or damages hidden nerves, blood vessels, and other structures, contributing to enhanced surgical success in oncology and other fields.
Launched 07/27/2023: [Press Release](#)

[Novel Innovations for Tissue Regeneration in Osteoarthritis \(NITRO\)](#)

- Pioneer innovative approaches to assist the body in self-repairing joints.
Launched 05/18/2023: [Press Release](#)

Other Programs

[Chatbot Accuracy and Reliability Evaluation \(CARE\) \(Exploration Topic\)](#)

- Develop tools to better evaluate and address medical chatbot answers to improve their accuracy and efficiency when interacting with patients.
Launched 04/19/2024: [Press Release](#)

[ARPA-H Sprint for Women's Health](#)

- Pioneer new medical discoveries to improve women's health outcomes.
Launched 02/21/2024: [Press Release](#)

[Advancing Clinical Trial Readiness \(ACTR\) \(ARPANET-H\)](#)

- Enable 90% of eligible Americans who want to participate in a clinical trial the ability to participate within a half-hour of their home.
Launched 10/20/2023: [Press Release](#)

[Open Broad Agency Announcement Awardees](#)

- The ARPA-H Open Broad Agency Announcement (BAA) solicits proposals focused on areas of high potential and urgent need. For example:
Launched 03/15/2023: [Press Release](#)
 - **Transforming Antibiotic R&D with Generative AI to stop Emerging Threats (TARGET)**
 - Increase the development of antibiotics via artificial intelligence (AI) to mitigate antimicrobial resistance. AI will be used to: 1) excel the molecular screening of antibiotic candidates; 2) develop screenings for potential antibiotic effectiveness; and 3) verify antibiotic discoveries.

- Launched 09/26/2024: [Press Release](#)
- **No Kidney Left Behind**
 - Develop a comprehensive warming/cooling process for kidney preservation increasing kidney viability during the transplant waiting period. The project ultimately increases kidney transplant availability.Launched 09/24/2024: [Press Release](#)
 - **ML/AI-Aided Therapeutic Repurposing In extended uses (MATRIX)**
 - Develop a machine learning platform to rapidly identify existing medications that could be effective in treating rare diseases that have no current therapies.Launched 02/28/2024: [Press Release](#)
 - **Programmable Scalable Therapeutics for Immune-directed Cancer-killing (SPIKES)**
 - Use genetically programmable bacteria to create a scalable and cost-effective cancer immunotherapy that precisely targets solid tumor cells, overcoming challenges in current cancer treatments.Launched 09/26/2023: [Press Release](#)

Hubs

ARPA-H Customer Experience Hub

- Centered in Dallas, TX, this hub is built to develop health solutions that will be accessible, in demand, and readily adopted. This hub is focused on such objectives as identifying and addressing costly inefficiencies in healthcare and ensuring ARPA-H funding is producing cost-effective, meaningful advances.

Launched 09/26/2023: [Press Release](#)

ARPA-H Investor Catalyst Hub

- Centered in Cambridge, MA, this hub is built to provide connections between researchers and private venture investors to bring ideas and research to market faster.

Launched 09/26/2023: [Press Release](#)

Canceled Programs

ImagiNg Data EXchange (INDEX)

- Aims to create a pipeline for exchange between medical imaging data providers to increase access to diverse, representative, high quality imaging data. This is required to train and standardize artificial intelligence (AI) and machine learning (ML) algorithms. Proposals are accepted across three areas: business model and business plan, system architecture design and implementation, and enrollment.

Launched 11/25/2024: [Press Release](#)

[Universal Patching and Remediation for Autonomous Defense \(UPGRADE\)](#)

- Develop an autonomous cybersecurity solution that can proactively update devices across diverse hospital environments, advancing continuous patient care while reducing manual efforts and uncertainties in cybersecurity management.
Launched 05/20/2024: [Press Release](#)

[Health Care Rewards to Achieve Improved Outcomes \(HEROES\)](#)

- Develop a program that offers financial incentives to nonprofit and other groups that reduce the overall number of adverse health events – such as heart attacks or serious post-partum bleeds – that occur within a pre-defined target population.
Launched 01/09/2024: [Press Release](#)

Completed Programs

[Artificial Intelligence Cyber Challenge \(AixCC\)](#)

- In partnership with DARPA, develop AI-enabled tools and capabilities to find and fix problems in software that could leave critical medical infrastructure vulnerable to cyberattack.
Launched 03/21/2024: [Press Release](#)