## November 16, 2023

The Honorable GT Thompson Chairman House Committee on Agriculture 400 Cannon House Office Building Washington, DC 20515

The Honorable David Scott
Ranking Member
House Committee on Agriculture
468 Cannon House Office Building
Washington, DC 20515

The Honorable Debbie Stabenow Chairwoman Senate Committee on Agriculture 731 Hart Senate Office Building Washington, DC 20510

The Honorable John Boozman Ranking Member Senate Committee on Agriculture 555 Dirksen Senate Office Building Washington, DC 20510

Dear Chairman Thompson, Chairwoman Stabenow, Ranking Member Scott, and Ranking Member Boozman:

As you work together to develop the next Farm Bill, we urge you to support transformative research at USDA by including the bipartisan, bicameral *Advancing Cutting Edge (ACE) Agriculture Act* (S.834, H.R.2385) in the next Farm Bill. The *ACE Ag Act* would reauthorize the Agriculture Advanced Research and Development Authority (AgARDA) at USDA, add an additional focus on resilience and mitigation research, and grow its authorization level to more adequately reflect the mission of advanced research programs.

AgARDA was established in the 2018 Farm Bill to support high-risk, high-reward research at USDA to address the most far-reaching challenges facing the food and agriculture system. Modeled after successful advanced research agencies like the Department of Defense's Defense Advanced Research Projects Agency (DARPA) and the Department of Energy's Advanced Research Projects Agency-Energy (ARPA-E), AgARDA was created to bring this proven model of transformative research to the USDA to maintain U.S. advantages and leadership in agriculture innovation. AgARDA was designed to help de-risk innovative technologies by funding research with significant potential benefits, but which may be too early-stage or technically challenging for private-sector investment.

Because of investments in agricultural research, the U.S. has seen unparalleled growth in agricultural production over the last 70 years and has led the world in agricultural innovation. Farmers and consumers in the U.S. and around the world benefit from increased productivity, increased efficiency, and lower rates of food insecurity. However, public funding for these innovations has fallen by one-third over the last two decades. This decline comes at the same time when global competitors like China, Brazil, and India are making significant investments in public agricultural research and development (R&D). As of 2016, China's investments in agriculture R&D were nearly double that of the U.S.<sup>1</sup>

<sup>1</sup> 

Novel and innovative research holds the keys to unlocking new tools and ensuring a resilient food and agricultural system. Adding an emphasis on resilience and mitigation research at AgARDA will help producers meet the challenges of a changing agricultural landscape, increase production to meet the needs of a growing global population, and help U.S. agricultural products compete in shifting global markets.

A hallmark of ARPA agencies is the focus on transformative, transdisciplinary research questions that require pivotal investments in breakthrough technologies. DARPA has successfully addressed national challenges for the past 50 years by building diverse collaborations across academia, industry, and government partners to cultivate an environment that strives for transformational change. The overall budgets of DARPA, ARPA-E, and the newly created ARPA-H, which range from \$450 million to \$3.8 billion, are reflective of the resources needed to support the advanced research mission. ARPA research projects' budgets are large, but also laser-focused on ambitious and highly specific challenges. While AgARDA is a pilot program in its current form, the *ACE Ag Act* envisions a program similar to the other ARPAs and shows support for this concept by increasing the authorization to \$100 million. This will provide the program the greatest opportunity and flexibility to support the kind of research that can have truly transformational results.

The successes of other federal high-risk, high-reward research programs have made significant contributions to the U.S. economy, such as the Internet and Global Positioning Services, and have protected and enhanced vital components of our nation's defense and energy sectors. AgARDA is an opportunity to bring this legacy of transformative innovation to USDA to secure America's food supply and give our farmers and ranchers the tools they need to meet the challenges of the 21st century. We, the undersigned organizations, companies, and institutions, ask you to support advanced and innovative research at USDA by reauthorizing AgARDA through the *ACE Ag Act* in the next Farm Bill.

## Sincerely,

Agricultural & Applied Economics Association American Association of Mycobacterial Diseases American Association of Veterinary Medical Colleges American Conservation Coalition Action American Dairy Science Association American Feed Industry Association American Institute of Biological Sciences American Malting Barley Association American Phytopathological Society American Seed Trade Association American Society for Microbiology American Society of Agronomy American Society of Animal Science American Society of Plant Biologists American Soybean Association American Veterinary Medical Association Animal Health Institute

**Aquatic Plant Management Society** 

**Biotechnology Innovation Organization** 

**Bipartisan Policy Center Action** 

C3 Action

Cereals & Grains Association

Citizens for Responsible Energy Solutions (CRES)

ClearPath Action

Colorado Farm Bureau

Colorado State University

Cornell College of Agriculture and Life Sciences

Council for Agricultural Science and Technology (CAST)

Crop Science Society of America

E2

Earthjustice

**Ecological Society of America** 

**Edge Dairy Farmer Cooperative** 

**Entomological Society of America** 

**Environmental Defense Fund** 

**Environmental Policy Innovation Center** 

**Evangelical Environmental Network** 

**Eversole Associates** 

**FASS** 

Food and Agriculture Climate Alliance

International Alliance for Phytobiomes Research

International Wheat Genome Sequencing Consortium

**Iowa State University** 

**Kansas State University** 

Meat Institute

Mycobacterial Diseases of Animals – Multistate Initiative

National Barley Improvement Committee

National Coalition for Food and Agricultural Research

**National Turfgrass Federation** 

**National Wheat Improvement Committee** 

North American Millers' Association

North Central Weed Science Society

Northeastern Weed Science Society

Pet Food Institute

Soil Science Society of America

Southern Weed Science Society

**Spark Climate Solutions** 

Supporters of Agricultural Research (SoAR) Foundation

The Breakthrough Institute

The Good Food Institute

University of Florida

US Dairy Forage Research Center Stakeholder Committee Washington State University Weed Science Society of America Western Society of Weed Science