



BARD

The United States – Israel
Binational Agricultural Research & Development Fund

Joint U.S-Israel

Food and Nutrition Program

Application Guidelines



Agenda

- About BARD
- The Food and Nutrition R&D Program
 - Program goal
 - Research priorities
 - Program timeline
 - Guidelines for the pre-proposal
 - How we can help





BARD in a nutshell



Who we are?

Established in 1977, BARD is a competitive funding program that supports collaborative agricultural research in areas of mutual interest to the U.S. and Israel.



What we do?

BARD runs several funding programs for all phases of agricultural research and development, including research grants, graduate student fellowships, postdoctoral fellowships and workshops. **BARD also supports academia-to-industry collaboration targeted to help investigators commercialize their research outputs (in partnership with the IIA and USDA NIFA).**



What makes us unique

A long-term effective and synergic collaboration for scientists, working jointly to develop **applicable solutions** for both countries.

BARD's income drives from interest on an endowment, **in equal parts by both governments.** Matching funds double the dollar value.



Future

BARD wishes to develop new programs and increase the research portfolio to include new topics: food sciences and nutrition research as well as climate-smart agriculture (CSA).



BARD (Since 1979)

The U.S.-Israel Binational Agricultural Research and Development Fund



BARD is a competitive funding program that supports collaborative agricultural R&D in areas of mutual interest to the U.S. and Israel.



Ministry of Finance



**Ministry of Agriculture
& Rural Development**



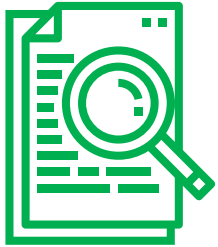
**Agricultural
Research
Service**



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Agricultural Research & Development Fund**



BARD funding programs portfolio



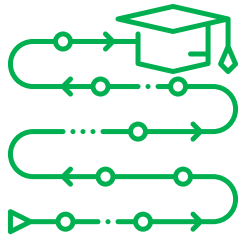
BARD Research
Projects



Feasibility Studies



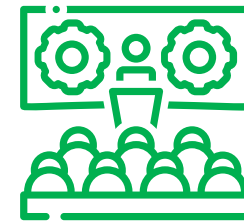
Postdoctoral
Fellowships



Graduate Students
Fellowships



Senior Research
Fellowships

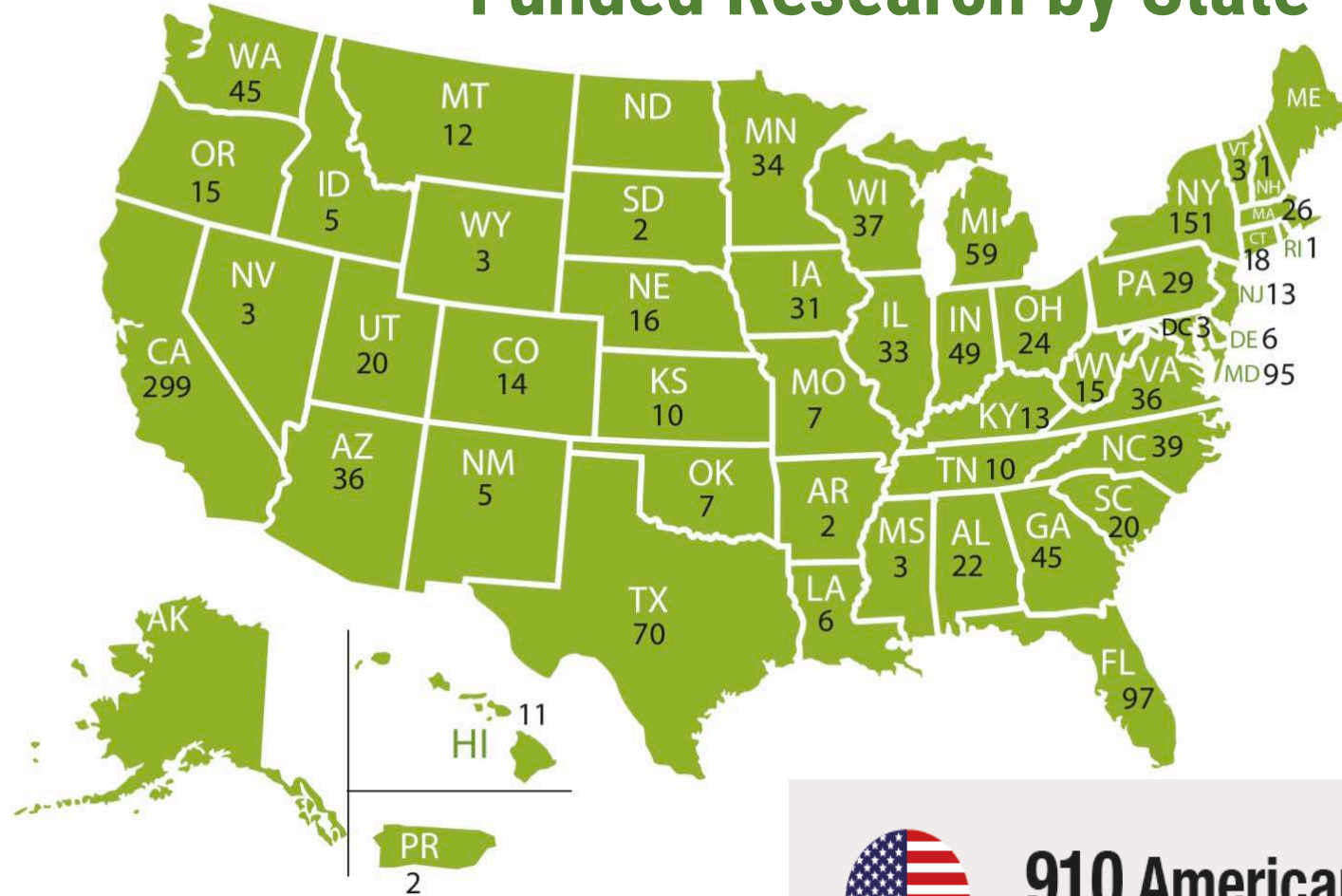


Workshops



BARD by the numbers

Funded Research by State



SUBMITTED AND APPROVED PROPOSALS

Submitted: 5,278

Approved: 1,376

Approval rate: 26%

BUDGET BY COUNTRY 2011-2020



910 American
principal investigators

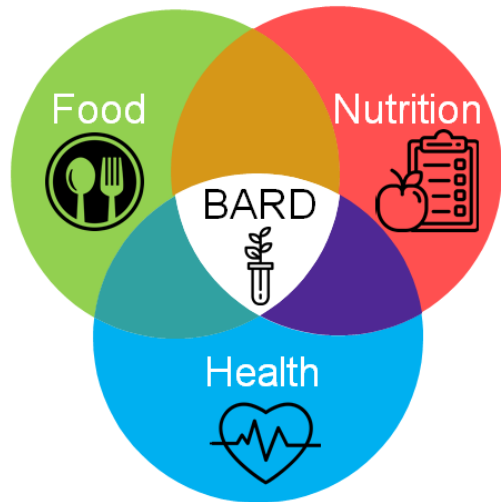


630 Israeli
principal investigators



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Food and Nutrition R&D Program





Program Goal

The goal of the program is to promote joint R&D activity of scientists from Israel and the United States in the area of food and nutrition that will lead to improved quality of life, prevent chronic diseases, and improve health.

The program will provide:

1. Access to knowledge originating from academia or research institutes in the United States and/or Israel.
2. Provide R&D services to companies while utilizing the infrastructure and means of academia or research institutes.
3. Reduction of lab to product time



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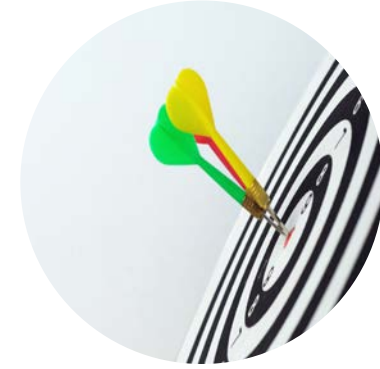
The advantages of working together



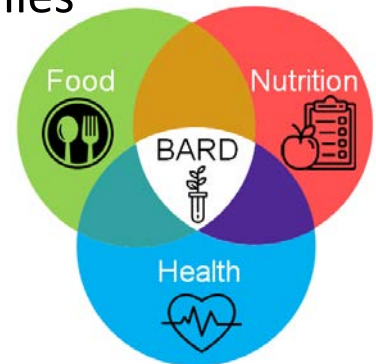
- Expand Expertise
- Diversify Approaches
- Synergistic Outputs
- Relationships that are productive for a lifetime



- State of the art facilities
- Access to a wide range of laboratory equipment
- Large scale testing
- Many Service Providers



- Exposure to US Market
- Input to needs of US Market
- Possible access to partner with US companies



Preferred Research Topics

for the U.S. – Israel Food and Nutrition Program

01

Improving food and
nutrition



02

Increasing the variety and
availability of food



03

Supporting healthy
consumption



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רשות החדשנות
Israel Innovation
Authority



United States Department of Agriculture
National Institute of Food and Agriculture

Improving Food and Nutrition

1



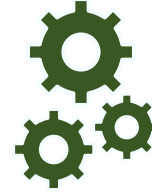
Development of innovative food products-development and food processing techniques that lead to the creation of food with improved quality and nutritional values



4

Development of fundamental knowledge base of factors influencing dietary behavior and of methods that successfully alter behavior in a manner that promotes healthier diets

2



Development of technologies, including predictive modeling, and behavioral practices which improve food safety



5

Development of personalized food tailored to specific high-risk target populations

3



Expansion of the knowledge regarding food composition beyond essential nutrients and understand factors that promote variability in these components.



6

Development and sourcing of new natural functional ingredients for food. (For example, thickeners, stabilizers and colors)



Increasing Food Variety & Availability

1



Ensuring nutritional and technological compatibility of new food sources

4



Developing practices and technologies to reduce post-harvest loss of agricultural produce

2



Increasing the biodiversity of food sources and creating new ones

5



Developing the evidence-base for an agriculture and food system that lowers rates of malnutrition and diet-related chronic disease

3



Producing healthy food systems and its sustainable growth in a resource-challenged age

6



Supporting innovations in alternative protein research including discovery of novel protein-rich sources from plants, insects, fungi, and algae or through tissue culture



Supporting Healthy Consumption

1



Developing systems for ensuring food quality

2



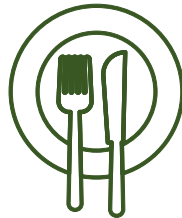
Enabling personalized nutrition

3



Understanding and mitigating food insecurity by advancing change of consumer habits

4



Elucidating the critical gaps in agriculture that will allow it to be responsive to precision nutrition needs across the lifespan

5



Improving consumer assessment and detection methods of food nutritive value in relation to human health

6



Expanding the accessibility to accurate, and up-to-date information regarding food system composition and factors that impact it



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Funding Tracks

1. Track 1 - TRL 2-4, a project that still requires intensive academic research;
2. Track 2 – TRL 4-6, a project close to application stage.

Track 1 (NOFAR) <https://innovationisrael.org.il/infrastructure/rnd/knowledgedirecting>

Period: Up to 24 months.

Grant: 90% of the total budget, Up to **550,000 NIS (per year)**.

Industrial partner:

- Contributes 10% of the projects budget;
- Has the right to be the 1st to access and evaluate the projects' outcome.

Royalties: None

Track 2 (MAGNETON) <https://innovationisrael.org.il/infrastructure/rnd/knowledgeCommercialization>

Period: Up to 24 months.

Grant: Up to **3,400,000 NIS**.

Academic partners - 100% grant

Timeline

Funding

Final answer:
Mid December 2022

Submission to the IIA:
September 14th, 2022

Go/no go from BARD:
July 21st, 2022

Pre-proposal submission:
June 30th, 2022





Guidelines

Pre-proposal (not more than 3 Pages):

- **Title Page** (Project Title, NIFA-Project, Israeli Collaborators (including company))
- **Brief description** of the proposal
- **Potential benefit** to Israeli Agriculture/Food Industry/Consumer
- **The benefits of the collaboration** to achieving the objectives
- **Collaborative arrangements** with NIFA partner.





Title Page

- NIFA-PI and project Title
- List of Israeli collaborators and their institutions
- Company information and Contact
- Research Priority ([see list](#))





Pre-proposal Body

- Brief description of the proposal, overview of the proposed methods and the research objectives
- Contribution of the Israeli research to the ongoing NIFA project
- Potential benefit to Israel if successful
- How the research contributes to the priority area(s)
- The benefits of the collaboration to achieving the objectives
- Collaborative arrangements with NIFA partner
- Agreement of the NIFA Project PI to participate in this collaboration
- Original NIFA Project and Funding is not affected by the Israeli Proposal





Evaluation Criteria

- BARD-NIFA (committee)
- Relevant to also to the Israeli agriculture/food/industry/market etc.
- Enhance the goals of the NIFA approved project (relevant to the NIFA project)
- Priorities of BARD's food and nutrition program





How can we help

1. List of NIFA Projects (400 are on our website)

https://www.bard-isus.com/NIFA_FoodProjects.htm

1. Facilitate contact with NIFA Partner contact: haim@bard-isus.com
2. Assist in finding Industrial Partner contact: shlomo.wald@taw.co.il



Thank You



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