USDA Funding Opportunities
Foundational
Food Safety, Nutrition and Health

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USDA/NIFA/Institute of Food Safety and Nutrition
Agriculture and Food Research Initiative Competitive Grants Program

- AFRI is the USDA competitive grant program designed to provide fundamental and applied research, education and extension projects in food and agricultural sciences. There are two key program areas:
  - **Challenge Area Programs-Integrated**
  - **Foundational Programs- Basic Research**
AFRI Foundational Program

• Project type – predominantly research
  ➢ Predominantly fundamental research

• Grant types – Standard, FASE, Conference

• Key Program Area Priorities – (generally very broad)
  ➢ don’t change markedly from year to year
AFRI Foundational Program: Program Area Priorities, FY 2016

• Food Safety, Nutrition, and Health

➢ Improving Food Quality- soliciting FASE, Standard and conference grant applications

➢ Function and Efficacy of Nutrients- soliciting FASE, Standard and conference grant applications

➢ Improving Food Safety- soliciting FASE, Standard and conference grant applications

➢ Understanding Antimicrobial Resistance – soliciting FASE, Standard and conference grant applications
AFRI
Improving Food Quality Program

Jodi P. Williams, Ph.D.
National Program Leader, Food Safety
AFRI – Improving Food Quality Program

Where do we find it?

AFRI Foundational RFA

Food Safety, Nutrition and Health – Program Area

A1361- Improving Food Quality
Improving Food Quality Priorities

- Utilizing processing and packaging technologies to improve the quality of foods
- Understanding the biological, chemical, and physical interactions of food and food ingredients to improve the quality of foods

What does quality mean?

<table>
<thead>
<tr>
<th>Shelf-life</th>
<th>Nutrient Value</th>
<th>Economic Value</th>
<th>Convenience</th>
<th>Sensory Qualities</th>
<th>Sustainability</th>
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Improving Food quality does not fund pre-harvest or food safety projects.
Program Area: Improving Food Quality
FY 2015

• Number of Proposals – 108
• Number of Awards – 12 (including seed and/or equipment)
• Success rate – 11%
• Average Award Size - $428,905
Program Contact, Improving Food Quality

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AFRI Function and Efficacy of Nutrients Program

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AFRI Foundational – Function and Efficacy of Nutrients

• Program Area Priority
  – Investigate the role of bioactive components of food in preventing inflammation or promoting gastrointestinal health
    • Justification must be provided for the relationship of the bioactive component(s) being studied to human health outcomes
    • Priority will be given to projects that use a whole food approach or that address health effects of a combination of two or more bioactive components found in food.
    • The whole food approach may also be one that adds enrichment, fortification or micro- and nano-encapsulation to enhance bioavailability of bioactive components in food.
Program Area: Function and Efficacy of Nutrients
FY 2015

- Number of Proposals – 68
- Number of Awards – 12 (including seed)
- Success rate – 18%
- Average Award Size - $492,149
Program Contact, Function and Efficacy of Nutrients

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Understanding Antimicrobial Resistance Program – A1362

Mervalin Morant, Ph.D.
National Program Leader, Food Safety
Understanding Antimicrobial Resistance

• Program Area Priority
  – Conduct research to improve our knowledge and understanding of the basic science that underpins the development and functionality of alternatives to traditional antimicrobials currently used in agriculture. This will mitigate the emergence of antimicrobial resistance in crops and animals or the spread of antimicrobial resistance across the food chain

• Broad interpretation – “understanding AMR
• Pathogen control targeted? Submit to Improving Food Safety
Program Contact: Understanding Antimicrobial Resistance

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Improving Food Safety
A1331

• Isabel Walls, Ph.D.
• National Program Leader, Food Safety
Program Area Priority

• Improving Food Safety - $500,000 total per project
• Research only proposals were due August 10th, 2016

• Novel concentration/ purification methods for isolation of pathogens from foods
• Foodborne hazard detection methods
• Control strategies for foodborne hazards
• Identify and characterize emerging or under-researched foodborne hazards
• Improved diagnostic methods for peanut and food allergies
Program Contact

Improving Food Safety

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Additional Program Area Initiatives

• Critical Agricultural Research and Extension (CARE) – local, regional or national problems; yield solutions quickly; rapidly implemented by producers

• Exploratory – new and emerging innovative ideas; application of new knowledge or approaches; tools required for paradigm shift; rapid response to natural disasters
  ➢ high-risk, high-reward; proof-of-concept; transformative
Contact Information

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