Alternatives to Antibiotics: Extramural Research

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National Institute of Food and Agriculture

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Research, Education, and Economics (REE)

National Institute of Food and Agriculture (NIFA) Extramural

Service (ARS) Intramural

Agricultural Research

National Agricultural Statistical Service (NASS) Economic Research Service (ERS)



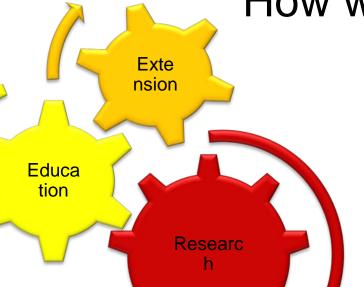


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Invest in and advance agricultural research, education, and extension to solve societal challenges







How we do it.....

- Research Fundamental & applied research enable discovery of solutions to complex problems of regional, national, and global importance
- Education (Formal) Curriculum design, Instruction delivery system, Train the next generation
- Extension (Non-formal) Takes knowledge gained through research and education directly to people





Where's AMR Program?

Challenge Area Effective Antimicrobial Resistance

Foundational Program **Understanding Antimicrobial Resistance**





AMR RFA Language incl.

- ...New, improved and innovative solutions to this complex problem must be addressed by inter-disciplinary teams... using a systems approach
- At ecosystem level
- Better understand, characterize & mitigate AMR across the food chain





AMR History

- 2012/13: 2 Std; 1 Conf ~\$3M available
- 2014: \$2.25M/Award (5 Std; 1 Conf)
 - ~\$5M available; Continuations
- 2015: \$1M/Award (3 Std; 3 Seed)
 - ~ \$5M available
- 2016: ~\$6M available Challenge
 - ~ \$1M available Foundational

Funded Projects (examples)

- D. Aga: Univ of Buffalo
- A. Howe: Iowa State Univ
- A. Pruden: Virginia Tech
- K.C. Jeong: Univ of Florida
- Morley: Colorado State Univ
- Singer: Univ of MN
- Sischo: Washington State Univ
- H. M. Scott: Kansas State & Texas A &M Univ





Funded AMR Projects

 http://cris.nifa.usda.gov/cgibin/starfinder/0?path=fastlink1.txt&id=anon&pass=&se arch=(GC=A4171)&format=WEBTITLESGIY







Public Access to NIFA Awards & Impacts www.nifa.usda.gov

- NIFA Database Gateway (https://nifa.usda.gov/data)
 - research & education

- Current Research Information System (http://cris.nifa.usda.gov)
 - research & education