



United States
Department of
Agriculture

National Institute
of Food
and Agriculture

AFRI Foundational RFA

Animal Reproduction

- Program code: A1211
- Program Contact:
 - Dr. Mark Mirando
 - (202) 401-4336
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Animal Reproduction

- Supports innovative work in cellular, molecular, genetic, genomic and whole-animal aspects of reproduction in agriculturally relevant species:
 - Gonadal function (including production, function, preservation of gametes)
 - Hypothalamic-pituitary axis
 - Embryonic and fetal development (including interaction between the conceptus and uterine environment)



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AFRI Foundational RFA

Animal Nutrition, Growth and Lactation

- Program code: A1231
- Program Contact
 - Dr. Steven Smith
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Animal Nutrition, Growth and Lactation

- Supports innovative work in cellular, molecular, genomic, genetic and whole-animal aspects of nutrition, growth and lactation in agriculturally relevant species
 - Nutrient utilization and efficiency, including influence and impact of the gastrointestinal microbiome
 - Innovative feed formulation, novel use of alternative feedstuffs
 - Improving the quality and efficiency of producing meat, milk, eggs, and animal fiber
 - Metabolic disorders and nutritional deficiencies affecting production of meat, milk, eggs, and animal fiber



Animal Nutrition, Growth and Lactation

- Supports innovative work in cellular, molecular, genomic, genetic and whole-animal aspects of nutrition, growth and lactation in agriculturally relevant species
 - Nutrient supply to lactating and growing animals
 - Amino acid requirements and protein metabolism
 - Muscle biology – differentiation, growth & molecular mechanisms
 - Adiposity – regulation and expression
 - Regulatory mechanisms



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AFRI Interagency Program

Dual Purpose with Dual Benefit:
Research in Biomedicine and
Agriculture Using Agriculturally
Important Domestic Animal Species



Dual Purpose with Dual Benefit

- Program Announcement: PAR-16-366
- Submission Deadline: September 27, 2018
- Program Contacts:
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 - NIFA - Mark Mirando, mmirando@nifa.usda.gov, (202) 401-4336



Dual Purpose with Dual Benefit

- Supports innovative work on problems relevant to both animal agriculture and human health using agricultural animals:
 - Assisted reproductive technologies, stem cell biology
 - Metabolism related to obesity and adiposity
 - Developmental origin of adult disease
 - Infectious diseases, Immunology