International Consortium for Antimicrobial Stewardship in Agriculture

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Foundation for Food & Agriculture Research (FFAR)

A 501(c)(3) non-profit created by Congress to complement the work of the USDA, FFAR builds unique public-private partnerships to support innovative science addressing today’s food and agriculture challenges.
What is ICASA?

ICASA is a mechanism for the public and private sectors to leverage investments in antibiotic stewardship and animal health research, with $7.5M funding and programmatic support from FFAR.
Public and Private Sector Benefits

- Investment Multiplier
- Practical Outcomes
- Cooperative
- Participant-Driven
- Access to Thought Leaders
- Accelerated Adoption
The largest public-private partnership of its kind

• 18 participating organizations - the entire animal protein value chain.

• 6 Working Groups focusing on major challenges.

• 60+ individual representatives collectively determine research directions.

• 20+ projects awarded with total value >$10M.

• ICASA Participants have contributed >$2.6M towards projects.
Working Groups

- **Liver abscesses**: Identify methods that allow for the management of liver abscesses in finishing cattle without the use of shared-class antibiotics while resulting in no detrimental effects to live animal performance, animal welfare, or carcass quality.

- **Metaphylaxis**: Solicit and support research focused on the use of metaphylaxis treatment practices in cattle and swine to enhance antimicrobial stewardship.

- **Swine Health**: AMR surveillance at the farm level; epidemiology and control of bacterial pathogens of swine

- **Late Morbidity [in fed cattle]**: Qualify, quantify and characterize the mid-day morbidity and late-day mortality issues. Identify possible explanations or causes as well as possible associated factors.

- **Beef Stewardship**: Support background research on antimicrobial use levels, rationale and opportunities for improvement.

- **Cross-cutting Technologies**: Identify and support technologies that reduce the need for animals to be treated with antibiotics.
Summary

• ICASA is collaborative and stakeholder-driven
• Public-private partnership requires “skin in the game”
• Research supports development of new diagnostics, management practices and protocols for active AMR surveillance.
• Studying the underlying drivers and animal health issues reduces the need for antibiotic use.
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