“The thoughtless person playing with penicillin treatment is morally responsible for the death of the man who succumbs to infection with the penicillin-resistant organism.”
• In place at ISU since 2015
• Consortium members include: UNL, U of I, Mayo, USDA, Commodity Stakeholders
• Generates evidence-based rationales for antibiotic stewardship
• Contributes to improvements in animal, health, people, and the environment
• Facilitates economically and socially sound policy development for the Midwest
## AMR CONSORTIUM INVOLVEMENT

### Table 1. Existing Resources that are engaged partners in current AMR Consortium

<table>
<thead>
<tr>
<th>Academia</th>
<th>Academia (Continued)</th>
<th>Industry Stakeholders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iowa State University</td>
<td>University of Iowa</td>
<td>National Pork Board</td>
</tr>
<tr>
<td>College of Veterinary Medicine</td>
<td>College of Public Health</td>
<td>Agribusiness Association of Iowa</td>
</tr>
<tr>
<td>College of Agriculture and Life Sciences</td>
<td>University of Iowa Medical Center</td>
<td>Iowa Cattlemen’s Association</td>
</tr>
<tr>
<td>College of Engineering</td>
<td>Center for Emerging Infectious Diseases</td>
<td>Nebraska Cattlemen's Association</td>
</tr>
<tr>
<td>College of Liberal Arts and Sciences</td>
<td></td>
<td>Iowa State Dairy Association</td>
</tr>
<tr>
<td>Iowa State University Cooperative Extension</td>
<td>University of Nebraska Medical Center</td>
<td>Iowa Corn Growers Association</td>
</tr>
<tr>
<td>Center for Food Security and Public Health</td>
<td>College of Public Health</td>
<td>Nebraska Corn Growers Association</td>
</tr>
<tr>
<td>Iowa State Veterinary Diagnostic Laboratory</td>
<td>College of Medicine</td>
<td>Iowa Pork Producers Association</td>
</tr>
<tr>
<td></td>
<td>College of Allied Health Professionals</td>
<td>Nebraska Pork Producers Association</td>
</tr>
<tr>
<td>University of Nebraska-Lincoln</td>
<td>Mayo Medical Clinic, Rochester MN</td>
<td>Iowa Farm Bureau</td>
</tr>
<tr>
<td>College of Agricultural Sciences and Natural Resources</td>
<td>Clinical Microbiology Laboratory</td>
<td>Nebraska Farm Bureau</td>
</tr>
<tr>
<td>Agricultural Research Division</td>
<td></td>
<td>Iowa Poultry Association</td>
</tr>
<tr>
<td>Nebraska Extension</td>
<td></td>
<td>Iowa Institute for Cooperatives</td>
</tr>
<tr>
<td>College of Engineering</td>
<td></td>
<td>Iowa Soybean Association</td>
</tr>
<tr>
<td>College of Education and Human Sciences</td>
<td>Federal Government</td>
<td>Iowa Turkey Federation</td>
</tr>
<tr>
<td>School of Veterinary Medicine and Biomedical Sciences</td>
<td>USDA, ARS National Center for Animal Health</td>
<td></td>
</tr>
<tr>
<td></td>
<td>USDA, ARS US Meat Animal Research Center</td>
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<tr>
<td></td>
<td>State Government</td>
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<tr>
<td></td>
<td>Iowa Department of Public Health</td>
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<tr>
<td></td>
<td>Iowa Department of Agriculture and Land Stewardship</td>
<td></td>
</tr>
</tbody>
</table>
HOW DID NIAMRRE COME ABOUT?

- AAVMC and APLU task force evaluated what actions would have the most potential to be transformative
- Identified formation of National Institute of Antimicrobial Resistance Research & Education as priority
NIAMRRE will provide local, national, and international leadership in combating antimicrobial resistance; generating evidence-based solutions for antimicrobial stewardship; contributing to improvements in the health of animals, humans, and the environment (One Health); and facilitating economically and socially sound policy development and implementation.
NIAMRRE will drive collaborative and integrative research, education, and engagement to solve AMR challenges and benefit society using a One-Health approach.
ABOUT NIAMRRE

PROVEN EXPERTISE
NIAMRRE was *competitively selected* by two national organizations (APLU & AAVMC) to collaboratively lead local, national, and international antimicrobial resistance and stewardship efforts.

INCLUSIVE INSTITUTE
The NIAMRRE brand is independent of the host and member institutions; a separate, inclusive entity. Within our institute, we intend to represent academia, commodity, *and* industry in our efforts.

SHARED SOLUTIONS
Stakeholder engagement is valued and encouraged. Cross-disciplinary participation from stakeholders will help bridge resource and knowledge gaps and allow for stronger collaboration.

ACCESSIBLE DATA
Through our efforts we’ll strive to make antimicrobial resistance and stewardship project data accessible, while maintaining intellectual property and appropriately validating results.
CURRENT THEMES

1. Reducing antimicrobial use by adapting precision agriculture approaches to animal agriculture management.
2. Improving clinical design making related to antibiotics by development of innovative, rapid and clinically translatable diagnostic testing platforms.
3. Development of systems-approaches for comprehensive monitoring and modeling of antimicrobial resistance progression at all stakeholder levels from farm to environment and public health.
4. Promoting antimicrobial stewardship through integrated public outreach, extension and clinical training of health professionals.
NIAMRRE INTERIM ADVISORY COMMITTEE

Mike Boehm, 
University of Nebraska
Vice Chancellor, Institute of Agriculture and Natural Resources

Bernadette Dunham, 
George Washington University
Former Director of FDA Center for Veterinary Medicine

Lonnie King, 
Co-Chair PAC-CARB
Former Dean, Ohio State University College of Veterinary Medicine

Sarah Nusser, 
Iowa State University
Vice President for Research

Cathie Woteki, 
Iowa State University
Former USDA Undersecretary and Chief Scientist

Robin Patel, 
Mayo Clinic
Incoming President, American Society for Microbiology (ASM)

Paul Plummer, 
Iowa State University
Executive Director, National Institute of Antimicrobial Resistance Research & Education

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NIAMRRE
NEXT STEPS

• Stakeholder engagement to drive membership and agenda development

• Identify and build sustainable funding sources to assure longevity
GOVERNMENTAL AFFAIRS

- Coordinating twice monthly govt. affairs phone calls with APLU, AAVMC, and partners
- At present, pursuing appropriations “ask” in line and consistent with S-FAR
- As opportunity arises we would like to advocate for potential multi-agency joint funding for coordinating centers like ours
CONTACT US

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