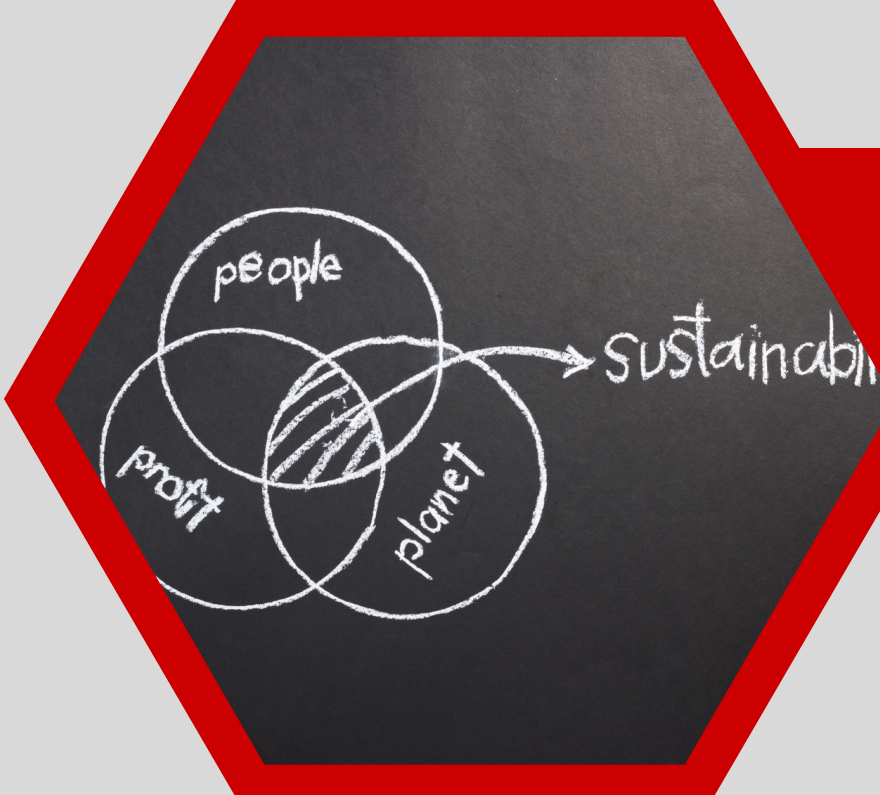


# FOOD ANIMAL INNOVATION SUMMIT

Sept 25-27, 2023



## Sustainable Animal Protein Systems

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**The Stateview Hotel and Conference  
Center**  
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# 2023 FOOD ANIMAL INNOVATION SUMMIT

**Sustainability** is a broad term with environmental and financial implications. The **2023 Food Animal Summit** brings together experts from across **animal agriculture** to discuss the future of animal protein production.



Join us for  
**SCOOPS & SIPS**

An ice cream reception and tour of the Lake Wheeler Forefront Farm Concept

Monday, Sept 25th | 5:30PM

## SPEAKERS AND TOPICS

 SEPT 25 **Sustainable Animal Protein**

The FAI Summit kicks off with discussions on defining sustainability in animal ag and continues with comments from expert panels, driven by audience interaction.

 SEPT 26 **One Health**

Day 2 will focus on OneHealth and finding solutions to challenges like antimicrobial resistance in food animals. Leading into the Animal Health and Nutrition Consortium and the Emerging Research Showcase.

 SEPT 27 **Meet the new Deans**

Day 3 offers a unique opportunity for industry, academia, and others with interest in food animal production to discuss the future of the Food Animal Initiative at NC State with the new Deans of CALS and CVM



Dr. Casey Owens

University of Arkansas



Stewart Leeth, JD

Smithfield Foods, Inc.



Dr. Stephen Williams

Butterball, Inc



Dr. Paula Cray

Director, Global Health, NCSU-CVM



Dr. Paul Morley

Director of VERO Texas A&M University



Dr. Gustavo Machado

Associate Professor NCSU - CVM



Dr. Garey Fox

Dean College of Ag and Life Sciences NC State University



Dr. Kate Meurs

Dean College of Veterinary Medicine NC State University

# Food Animal Innovation Summit

## Monday | Sept 25, 2023

*Fusion Ballroom, StateView Hotel and Conference Center*

<b>10:00 AM</b>	<b>Welcome and Overview Food Animal Initiative</b> Dr. Todd See Department Head, Department of Animal Science, NCSU
<b>10:15 AM</b>	<b>Sustainable Changes in Food Processing</b> Dr. Casey Owens University of Arkansas
<b>11:00 AM</b>	<b>Sustainability Across the Meat Supply Chain</b> Amanda Butterfield Director of Corporate Partnerships, North American Meat Institute
<b>11:45 AM</b>	<b>Speaker Panel Q&amp;A</b>
<b>12:00 PM</b>	<b>Lunch</b>
<b>1:00 PM</b>	<b>Sustainable Protein Production Panel: Farm to Plate</b>
<b>1:00 PM</b>	<b>Smithfield Sustainability Plans</b> Stewart Leeth, JD Chief Sustainability Officer, Smithfield Foods, Inc.
<b>1:30 PM</b>	<b>Sustainability in the Poultry Industry</b> Dr. Stephen A. Williams Director of Food Safety and Animal Care Butterball, Inc
<b>2:00 PM</b>	<b>Sustainability in the Beef Industry</b> Jacob Gilley Technical Livestock and Grazing Specialist, American Farmland Trust
<b>2:30 PM</b>	<b>Speaker Panel Discussion</b> Moderated by Dr. Frank Siewerdt, Department Head, Prestage Department of Poultry Science
<b>3:00 PM</b>	<b>Food Animal Initiative: Moving Forward Together</b> Dr. Garey Fox Dean, College of Ag and Life Sciences, NC State University
<b>3:30 PM</b>	<b>Break</b>
<b>4:00 PM</b>	<b>Lake Wheeler Field Labs Windshield Tour</b>
<b>5:30 PM - 7:00 PM</b>	<b>Scoops and Sips @ The Field Labs</b> (Transportation Provided)

# Food Animal Innovation Summit

Tuesday | Sept 26, 2023

*Fusion Ballroom, StateView Hotel and Conference Center*

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<b>8:30 AM</b>	<b>Global One Health</b> Dr. Paula Cray Director, Global Health, NCSU-CVM
<b>9:15 AM</b>	<b>Reducing antimicrobial use in animals through improved understanding of health and disease</b> Dr. Paul Morley Director of Research, Veterinary Education, Research, and Outreach (VERO) Texas A&M University
<b>10:00 AM</b>	<b>Break</b>
<b>10:30 AM</b>	<b>Precision Technologies and Data Analytics - Preventative Care in Swine</b> Dr. Gustavo Machado Department of Population Health and Pathobiology, NCSU - CVM
<b>11:15 AM</b>	<b>Precision Technologies and Data Analytics - Disease Detection</b> Dr. Matthew Livingston Verax
<b>12:00 PM</b>	<b>Lunch</b>

## Thank you to our Sponsors

**NC STATE**

Agriculture and Life Sciences

**NC STATE UNIVERSITY**

College of Veterinary Medicine

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# Animal Health and Nutrition Consortium

Tuesday | Sept 26, 2023

*Fusion Ballroom, StateView Hotel and Conference Center*

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1:00 PM	<b>Welcome &amp; Overview of AHNC status and vision</b> Dr. Peter Ferket, Professor of Nutrition And Biotechnology, Prestage Department of Poultry Science
	<b>Project Updates: Biomarkers and Gut Health</b>
1:15 PM	<b>Characterization of biomarkers for intestinal health of nursery pigs: meta-analysis with multi-nutritional factors</b> Dr. Sung Woo Kim, Professor of Nutrition, Department of Animal Science
1:30 PM	<b>Characterization of intestinal health biomarkers for the interaction with gut mucosa-associated microbiota in nursery pigs: meta-analysis to correlation biomarkers with growth performance</b> Dr. Sung Woo Kim, Professor of Nutrition, Department of Animal Science
1:45 PM	<b>Novel Multiplex Assays for the Assessment of GutHealth, Immune Function, and Stress in Poultry</b> Dr. Matt Koci, Professor, Prestage Department of Poultry Science
	<b>Project Updates: Machine Learning</b>
2:00 PM	<b>Use of Machine Learning Applications to Mine Commercial Poultry Industry Data to Identify Variables of Interest</b> Dr. Peter Ferket, Professor of Nutrition And Biotechnology, Prestage Department of Poultry Science
2:15 PM	<b>Use of neural network deep learning algorithm analysis to identify significant indicators of gut health in turkeys fed antibiotic-free diets with supplemental enzymes</b> Marissa Cohen, Area Specialized Agent, Animal Food Safety (FSMA), Prestage Department of Poultry Science
	<b>Project Updates: Vaccines</b>
2:30 PM	<b>Vaccine-based Control of Clostridial Dermatitis in Turkeys</b> Dr. Ravi Kulkarni, Assistant Professor, Population Health and Pathobiology
2:45 PM	<b>Break and Poster session</b>

# Emerging Research Showcase: Animal Health and Production

Tuesday | Sept 26, 2023

*Fusion Ballroom, StateView Hotel and Conference Center*

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<b>3:00 PM</b>	<b>Welcome and Introductions</b> Deborah Thompson CALs, NCSU
<b>4:15 PM</b>	<b>Faculty Research Briefs</b> Department of Animal Science <ul style="list-style-type: none"><li>• Dr. Jicai Jiang</li><li>• Dr. Vivek Fellner</li></ul> Department of Biological and Agricultural Engineering <ul style="list-style-type: none"><li>• Dr. Steve Hall</li></ul> Department of Ag and Resource Economics <ul style="list-style-type: none"><li>• Dr. Tom Vukina</li></ul> Prestage Department of Poultry Science <ul style="list-style-type: none"><li>• Dr. Lin Walker</li></ul>
<b>5:00 PM</b>	<b>Reception</b>

# Food Animal Initiative

Wednesday | Sept 27, 2023

*Fusion Ballroom, StateView Hotel and Conference Center*

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<b>8:30 AM</b>	<b>Strategies for Communicating Agricultural Science to the Public: The Role of Trust and Values</b> Dr. Katie Sanders Department of Agricultural and Human Sciences, NCSU
<b>9:15 AM</b>	<b>Food Animal Initiative: Moving Forward Together</b> Dr. Garey Fox, Dean- CALS Dr. Kate Meur, Dean - CVM Mr. Bryan Blinson, Executive Director, NC Cattlemen's Assoc
<b>10 AM</b>	<b>Building the Food Animal Initiative: Research, Teaching, and Outreach</b> <i>Breakout Sessions</i>
<b>11:30 AM</b>	<b>Final Remarks and Adjourn FAI Summit</b>
<b>1:00 PM</b>	<b>AHNC Board Meeting</b>