

Advancing Regulatory Science: The Birth of a New Center of Excellence



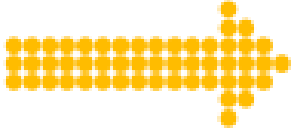
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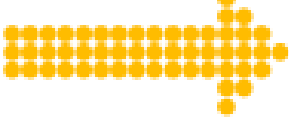
NC STATE
UNIVERSITY

College of Agriculture
and Life Sciences

**GLOBAL
POPULATION
GROWTH⁴**

7B
2016  **9B**
2050

**AGRICULTURAL
PRODUCTION
NEEDS TO
INCREASE⁴**

70%  **2050**

**TODAY'S CROP
PRODUCTION
ALLOCATION⁵**


62%
HUMAN
FOOD


35%
ANIMAL
FEED


3%
BIOENERGY CROPS,
SEED & OTHER
INDUSTRIAL PRODUCTS

⁴ FAO Expert Meeting on How to Feed the World in 2050; 2009

⁵ Institute on the Environment, University of Minnesota



Regulatory Challenges: Rethinking Agriculture

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- Regulation of new technology in agriculture is important
 - Safe and powerful technologies positively impact food security
 - Deployment of current technologies and future innovation are slowed by a lack of understanding
 - Success depends on partnerships and communication

Center of Excellence for Regulatory Science in Agriculture at NC State

- Raise awareness of regulatory challenges
- Anticipate regulatory needs of the future
- Tackle challenges as a community
- Address important challenges in an unbiased manor
- Educate the next generation of scientists, industry and federal partners, our public, etc.



Center Overview

- ▶ Center will not Drive Regulation rather;
 - ▶ Protect Growers and Ensure **Transparency**
 - ▶ Not a Pay to Play Involvement

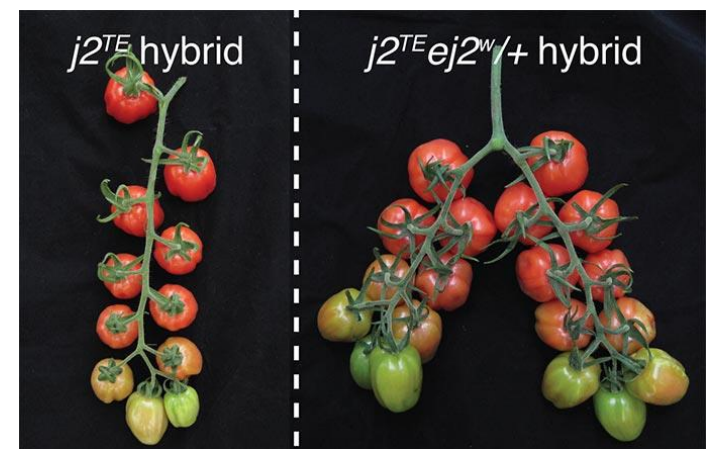
- ▶ Who's Involved to Date
 - ▶ National Academics
 - ▶ Government Officials (State and Federal)
 - ▶ Industry Representatives
 - ▶ NGO's and Commodity Groups
 - ▶ Growers

CERSA

Education


Outreach

Research





The Creation of a Center: Next Steps

- Fall Regulatory Workshop in partnership with EPA
 - Engaging active and interested partners
 - Establish scope and governance of Center
 - Define and develop membership roles
 - Complete formal paperwork to become a “Center”
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The Creation of a Center: Next Steps

- Applying for a major Foundation for Food and Agriculture Research grant (requires a 1:1 match)
- FFAR's goal is to support "partnerships to support innovative science addressing today's food and agriculture challenges"
- Partnering with Dr. Kevin Armbrust at LSU
 - Chair, Dept. of Environmental Sciences and Claiborne Gasoline Company Chair in Air Quality/Environmental Toxicology & Professor



Session Objectives

1. Lay the groundwork for a **collaborative governance** model for the proposed Center
2. Establish the **scope** of the charter for the proposed Center

Today's session will be instrumental in both developing the backbone for the FFAR grant, but also assure that the Center will be based on the needs and vision of our most important stakeholders.



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