

ABSTRACT

CAST Issue Paper 37, *Implications of Gene Flow in the Scale-up and Commercial Use of Biotechnology-derived Crops: Economic and Policy Considerations*. In nature, genetic information is continually transferred between different individuals, populations, and generations and across spatial dimensions. In plants, such genetic exchange, known as gene flow, typically occurs through pollen dispersal. Gene flow is a natural occurrence in the biological world and always has been. The introduction of biotechnology-derived crops, however, has caused an increased interest in understanding and managing gene flow. This Issue Paper reviews the concept of gene flow and discusses the situations in which gene flow may raise economic concerns in the production of commercial biotech crops.

SPEAKER BIOGRAPHY

David Gealy, Ph.D., is the lead scientist in the weed science/plant stress group in the Dale Bumpers National Rice Research Center of the USDA–Agricultural Research Service (ARS). He has conducted research on the biology, physiology, and control of weeds in wheat and legume crops of the Pacific Northwest and on the biology, physiology, and control of weeds in rice. He has served as an adjunct faculty member at two universities, authored or co-authored more than 100 full-length scientific contributions, and has been invited to participate in international, national, and regional research and education programs. Dr. Gealy's research has contributed key new scientific knowledge in areas of basic biology, physiology, biosafety, and control of weeds in irrigated and non-irrigated crop systems. He is internationally recognized for his expertise in the area of gene flow between rice and red rice, as well as in natural weed suppression/reduced herbicide systems for rice.

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Program:

Blowin' in the Wind

*Implications of Gene Flow in the Scale-up and
Commercial Use of Biotechnology-derived Crops:*

Economic and Policy Considerations

CAST Issue Paper

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February 25, 2008

PROGRAM

Welcome and Introduction

BARBARA GLENN, PH.D.
National C-FAR Board Member

Introduction to CAST

JOHN BONNER, PH.D.
Executive Vice President
Council for Agricultural Science and Technology

Distinguished Speaker

DAVID GEALY, PH.D.
USDA–Agricultural Research Service
Dale Bumpers National Rice Research Center

Open Forum

Closing

BARBARA GLENN

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