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**THE NATIONAL COALITION FOR
FOOD & AGRICULTURAL RESEARCH**

<http://www.ncfar.org>

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L u n c h ~ N ~ L e a r n S E M I N A R



THE NATIONAL COALITION FOR
FOOD & AGRICULTURAL RESEARCH

Program:

DIVIDE AND MULTIPLY!

*“Animal Productivity and Genetic Diversity—
Cloned and Transgenic Animals”*

Report from the
Council for Agricultural Science and Technology

September 28, 2009

PROGRAM

Welcome and Introduction

DR. BARBARA GLENN
NATIONAL C-FAR BOARD MEMBER

Distinguished Speaker

DR. ROBERT WALL
RESEARCH PHYSIOLOGIST
ANIMAL BIOSCIENCES AND BIOTECHNOLOGY LABORATORY
USDA AGRICULTURAL RESEARCH SERVICE
BELTSVILLE, MARYLAND

Open Forum

Closing

DR. BARBARA GLENN

NATIONAL C-FAR IS a nonprofit, nonpartisan, consensus-based and customer-led coalition that brings food, agriculture, nutrition, conservation and natural resource stakeholders together with the food and agriculture research and extension community, serving as a forum and a unified voice in support of sustaining and increasing public investment at the national level in food and agricultural research, extension and education. For additional information, go to www.ncfar.org; or contact Tom Van Arsdall, Executive Director at tom@vanarsdall.com.

ABSTRACT

Proponents of biotechnology say cloning and transgenesis—two new breeding technologies—can improve animal health and well-being, decrease negative impacts on the environment, and enhance safety and nutritional quality of food, thereby improving food security in nations around the world. But some consumers and consumer groups have had concerns that inclusion of such technologies in food production systems may not be in the consumer's best interest. This paper—Part 8 of a 9-part CAST series titled “Animal Agriculture's Future through Biotechnology”—reviews the complexities surrounding the issue of transgenic and cloned animals, presents the science behind the issues, and provides consumers with scientific information to help them weigh the risks and potential benefits of the new technologies. CAST Issue Paper 43, *Animal Productivity and Genetic Diversity: Cloned and Transgenic Animals*.

SPEAKER BIOGRAPHY

Robert Wall, Ph.D., is a research physiologist at the Animal Biosciences and Biotechnology Laboratory with the USDA's Agricultural Research Service in Beltsville, Maryland. Dr. Wall was a member of the team that produced the first transgenic livestock and since has focused his research on improving the efficiency of genetically engineered animals. His research also includes enhancing the phenotypes of cattle, sheep, and swine through genetic engineering. His lab has produced lean, feed-efficient pigs and recently has genetically engineered cattle that resist infection by *Staph. aureus*, a mastitis causing bacterium. In 2005, Dr. Wall received the Beltsville Area Senior Research Scientist Award for his research accomplishments in the introduction of recombinant DNA molecules into the genome of agricultural animals. He received the Distinguished Scientist Award from the American Society of Reproductive Medicine in 2008 and the Distinguished Service Award from the International Embryo Transfer Society in 2009. Dr. Wall received his Ph.D. from Cornell University.