Interagency Workshop on Opportunities In Crop-Based Food & Feed Allergens

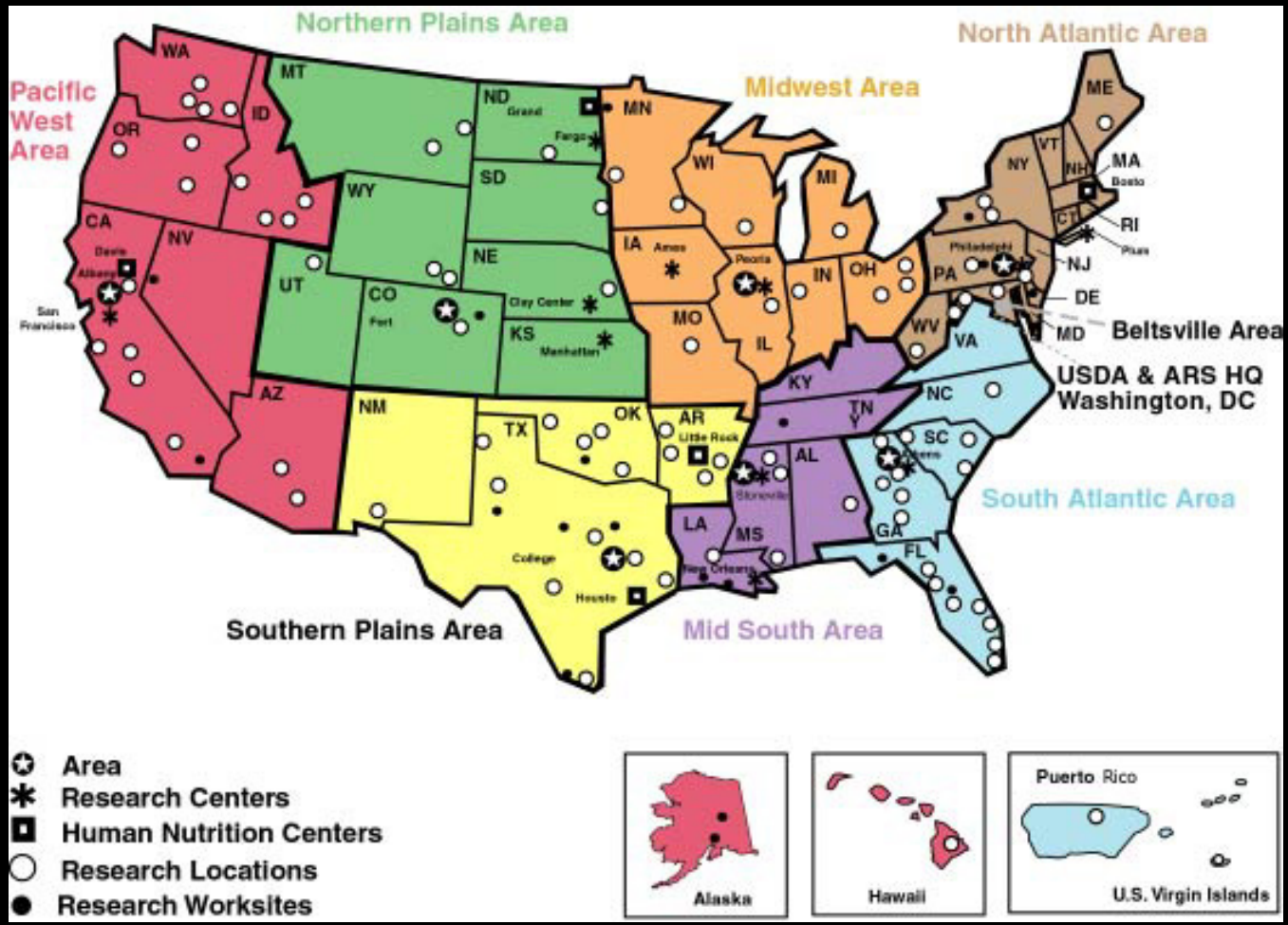
April 27, 2006
Beltsville, MD


WELCOME TO
BELTSVILLE!
USDA
ARS
The Future Grows Here
50

ARS Profile

- In-house research arm of USDA
- Farm to table research scope
- $1 billion annual research program on agricultural problems
- 2200 scientists at 100+ locations
- Both production and utilization research

Locations for ARS Research



Plus, overseas laboratories in:

- **Montpellier, France;**
- **Rome, Italy;**
- **Thessaloniki, Greece;**
- **Brisbane, Australia;**
- **Hurlingham, Argentina; and**
- **Beijing, China**

The National Program Structure of ARS Research

- ARS research is structured into 20+ National Programs each having sets of research projects directed toward common goals to solve agricultural problems of high national priority.
- National programs are outcome-driven; accomplishments & impacts are important.

www.ars.usda.gov

ARS National Programs

APP	NRSAS	CPP	NFS/Q
Food Animal Production (101)	Soil & Water Resource Management (211)	Plant, Genetic Resources, Genomics & Genetic Improvement (301)	Human Nutrition (107)
Animal Health (103)	Air Quality/Global Change (212)	Plant Biological & Molecular Processes (302)	Food Safety (animal & plant products) (108)
Arthropod Pests of Animals and Humans (104)	Rangeland, Pasture, and Cropland Systems (213)	Plant Diseases (303)	Quality & Utilization of Agricultural Products (306)
Aquaculture (106)	Manure & Byproduct Utilization (214)	Crop Protection & Quarantine (304)	
	Bioenergy and Energy Alternatives (215)	Crop Production (305)	
		Methyl Bromide Alternatives (308)	

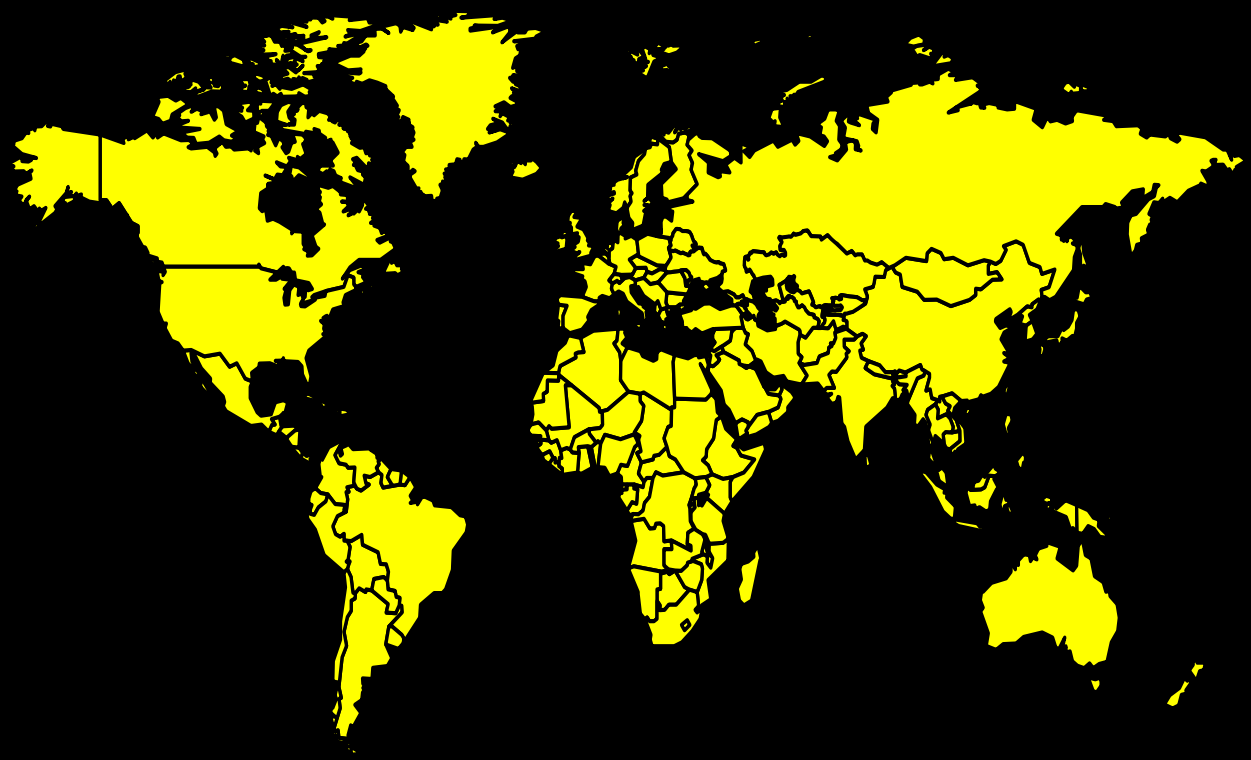
1384 Projects

Food Allergies are a Worldwide Issue

25% of people self identify that they have allergies.

However only 2% of these are medically confirmed.

In the US prevalence is increasing; 8% of children, 2% of adults, 11 M Americans.



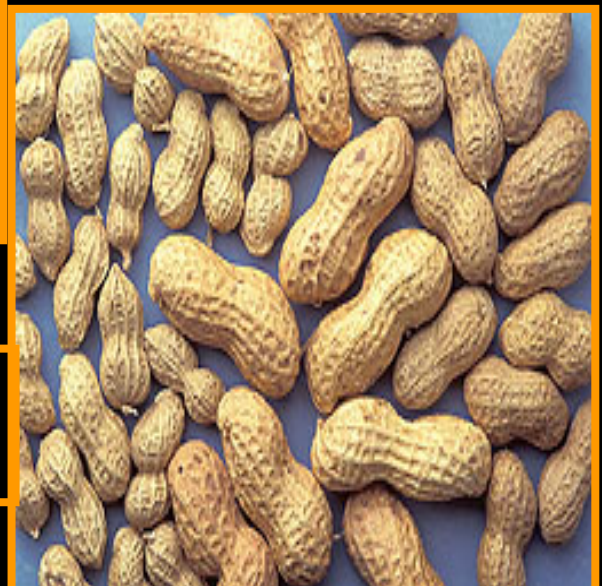
Food Allergen Labeling & Consumer Protection Act of 2004

- Amends the Federal Food, Drug & Cosmetic Act
- Identifies milk, eggs, fish, Crustacean shellfish, tree nuts, peanuts, wheat & soybean as major allergens
- Requires private sector to label processed foods that contain major allergens
- Effective January 1, 2006

FY06 ARS Research Appropriations

$ 41,264,800

$45,827,300



$ 10,751,900

Must Use Resources Wisely

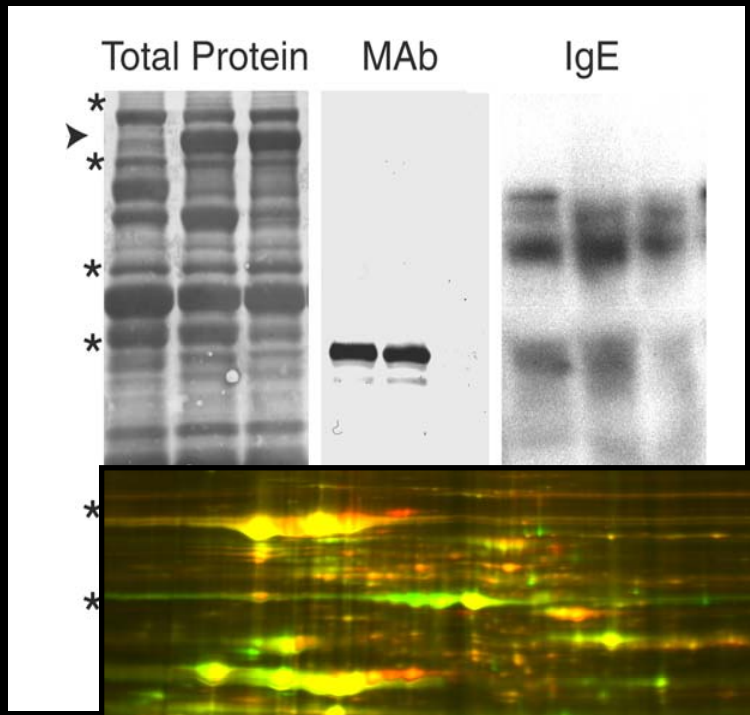
- Research funds are always less than needed. Need cooperation and collaboration among scientists.

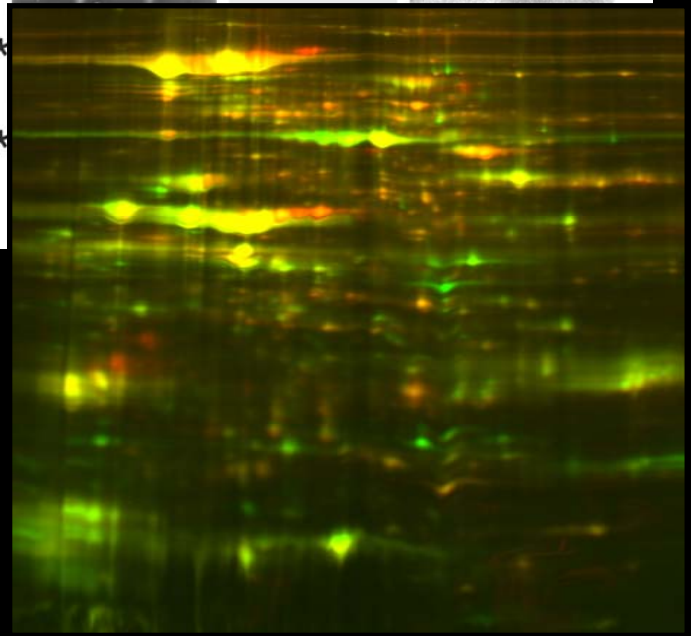
Interagency Workshop on Crop-Based Food & Feed Allergens

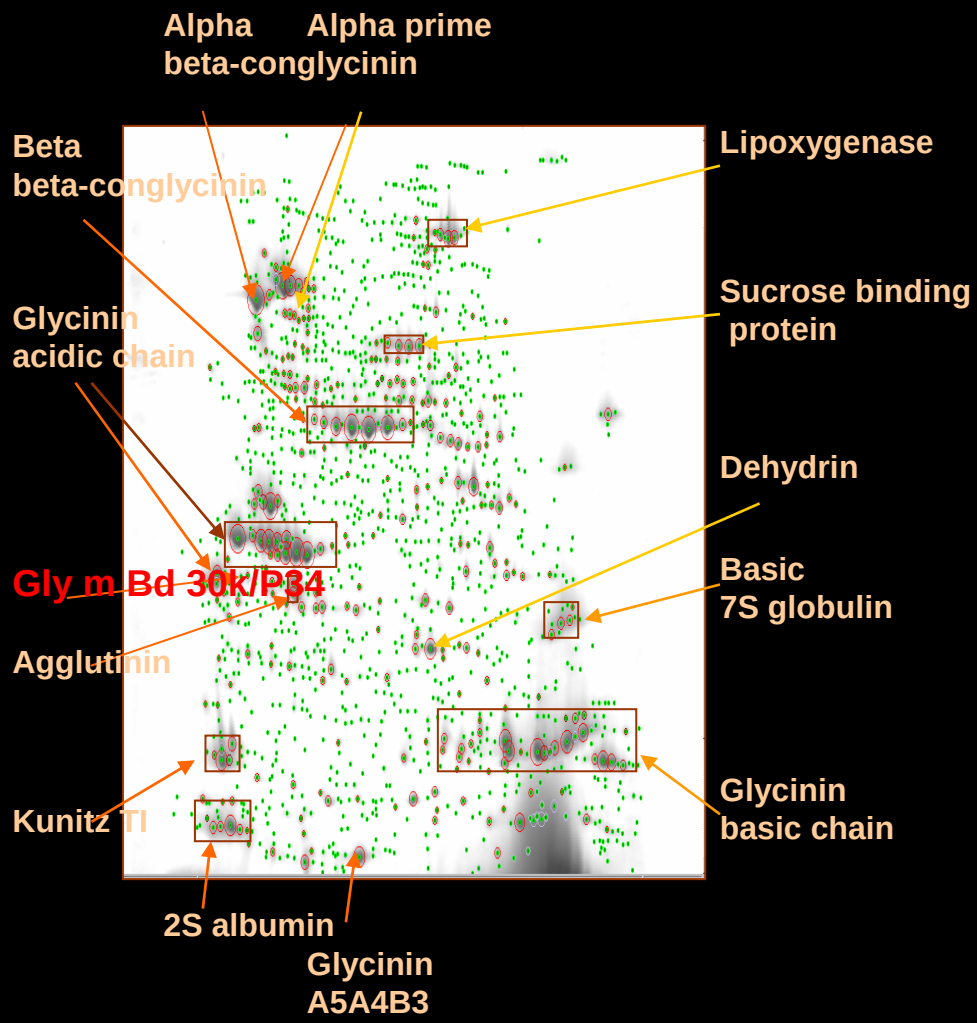
Objectives

- Understand epidemiology of allergens in the U.S. food & feed supply
- Identify gaps in ability to minimize risk of food contamination with potential allergens from soybean, wheat & peanut
- Develop strategies for mitigation of allergenic responses
- Explore opportunities for cross-agency collaboration

Removal of Allergenic Proteins







Eliot Herman, St. Louis MO

Niels Nielsen, W. Lafayette IN (moved to Raleigh NC)

Swine Model to Study Human Reaction to Allergens

Probiotics

Mucosal immunity

Joe Urban, Beltsville MD
Ricki Helm, Little Rock AR
Allan Schinckel, W. Lafayette IN

Determining Dietary Thresholds for Peanut Allergens

Soheila Maleki, New Orleans LA
David Baer, Beltsville MD

Expected Outcomes of this Workshop

Identify Performance Measures that are relevant to workshop objectives

Matrix Interagency interest and capacity with Performance Measures

Explore opportunities for cross-disciplinary research collaboration

Select a writing team to develop a draft report and next steps by June 16, 2006

Elect an Ad hoc Coordinating Committee