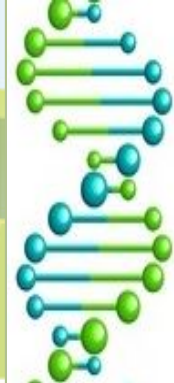
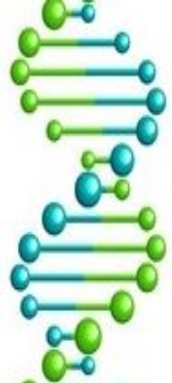


Genomes to Fields





Genomes to Fields 2014 Workshop

***Coalition Building
Rodney Williamson***

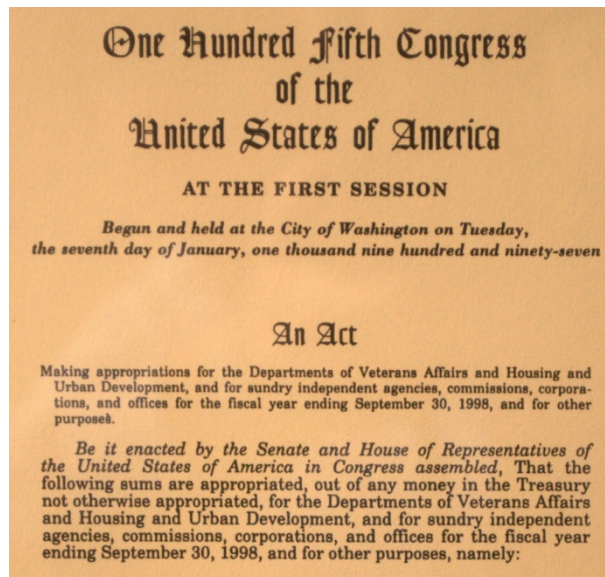
***Chicago, IL
December 10***

We asked: Should we sequence the Corn Genome?

- ✧ How many genes are in a corn plant?
- ✧ How much will it cost to sequence all the genes in corn?
- ✧ Will seed companies collaborate or want proprietary sequence information?
- ✧ HOW ARE WE GOING TO DO THIS????



Gene Sequencing - New Frontier

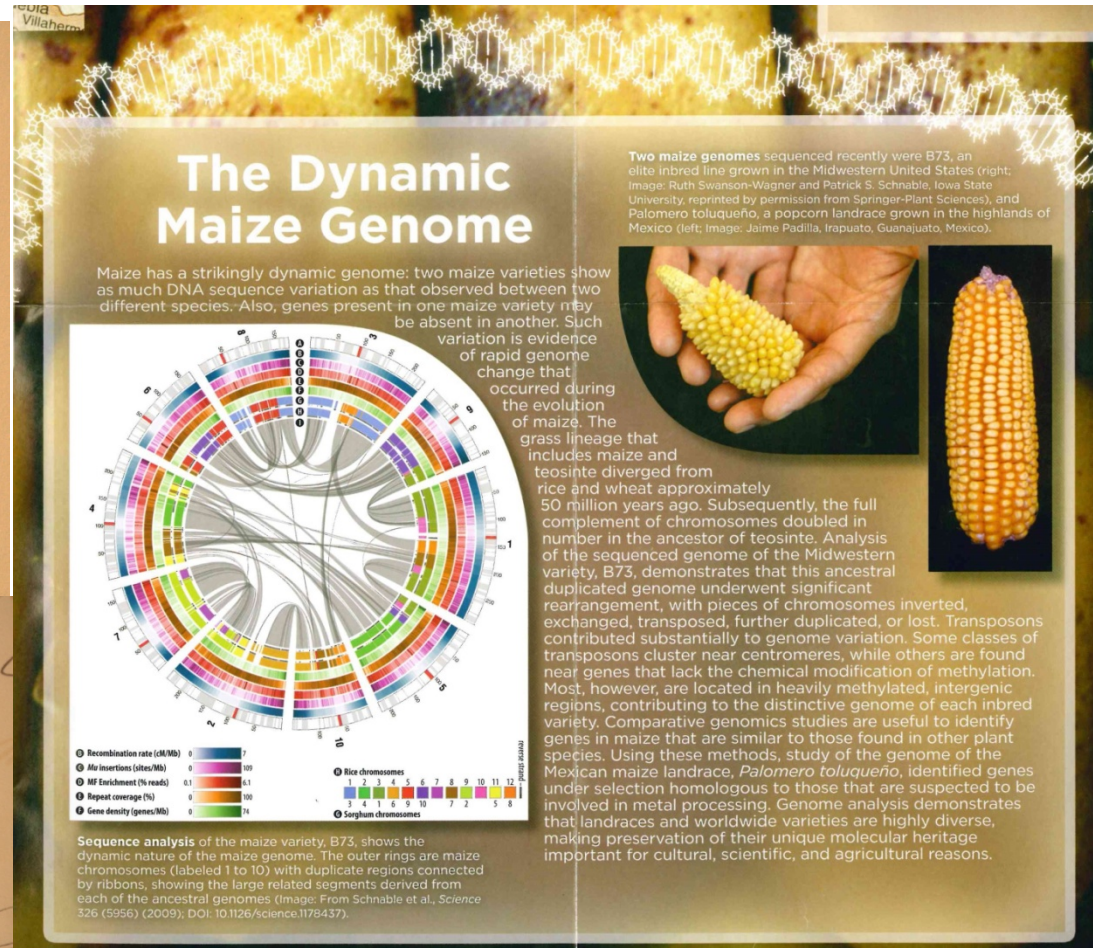


APPROVED

OCT 27 1997

William Clinton

"Medical care" for necessary expenses in implementing those provisions authorized in the Omnibus Budget Reconciliation Act of 1992 (31, 51, 53, and 55), the funding source for which is set as the "Compensation and pensions" appropriation. That such sums as may be earned on an individual basis, shall be reimbursed to "Medical fund" to augment the funding of individual medical



Genomes to Fields

Source: Poster from AAAS

Synergy

$$1 + 1 = 3$$


**DROUGHT, SUNLIGHT,
TEMPERATURE, SOILS, RAINFALL,
FERTILITY**



Synergy

$$1 + 1 = 3$$

- 1 Phenotyping Company
- 14 Universities
- 8 Seed Companies
- ARS USDA
- 1 Weather Company

Funding from:

- 4 State Commodity Groups
- National Corn Growers Assn



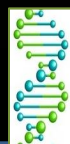
Genomes to Fields

Revolutionize Plant Science

- \$25 million/yr for 10 years
- Industry support (\$ and in-kind)
- Commodity & organization support (\$ and political)
- Utilize the investment in gene sequencing
- Sequester more carbon
- Feed a growing population
- Develop rural economy
- Improve efficiency of land and fertilizer



Chemicals Plastics Detergents
Antibiotics Cosmetics
Food Additives
Pharmaceuticals Adhesives
Soap Fireworks
Smartphones & Tablets
Dyes & Pigments
Fertilizers
Pesticides
Herbicides
Insecticides
Fungicides
Nematicides
Plant Growth Regulators
Soil Conditioners
Fertilizers
Pesticides
Herbicides
Insecticides
Fungicides
Nematicides
Plant Growth Regulators
Soil Conditioners



Genomes to Fields

