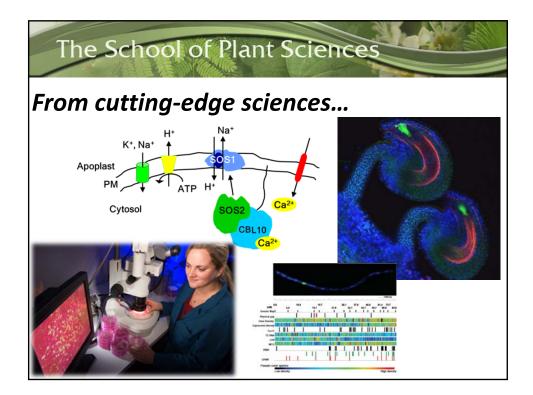


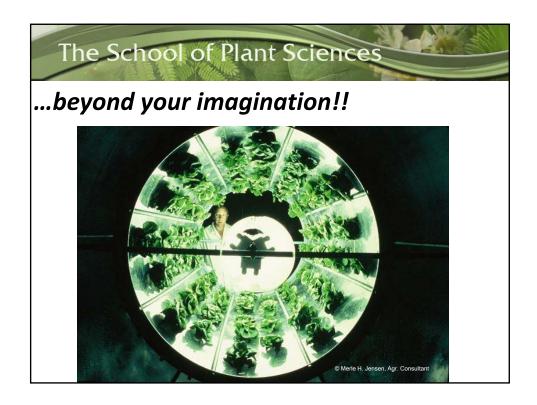
# Various production systems

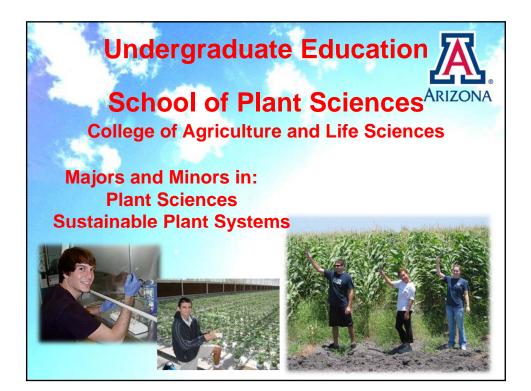








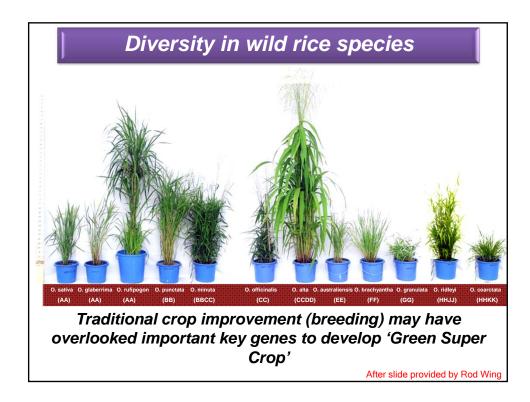


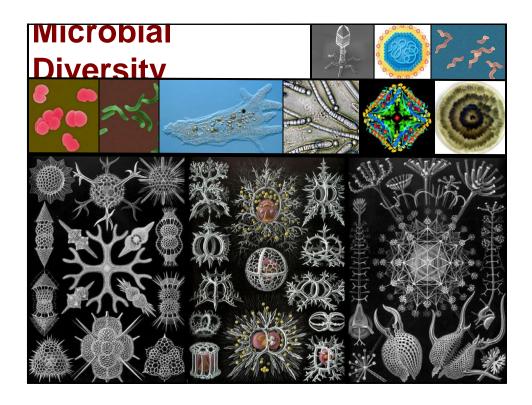


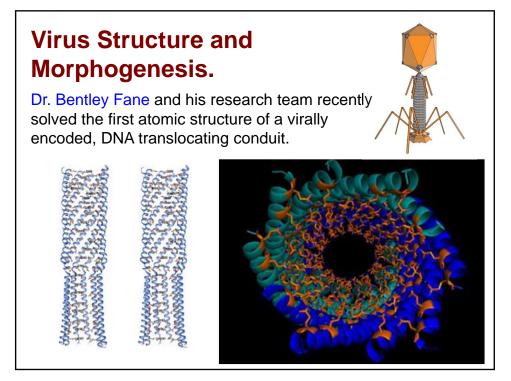












# Growing Gourmet Mushrooms that Recycle Waste



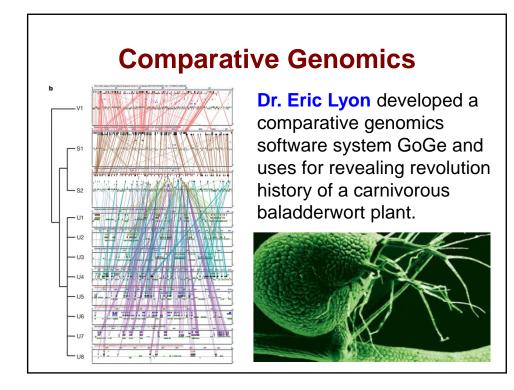
Dr. Barry Pryor is developing systems for recycling landscape and consumer waste products as substrates for growing gourmet and medicinal mushrooms.

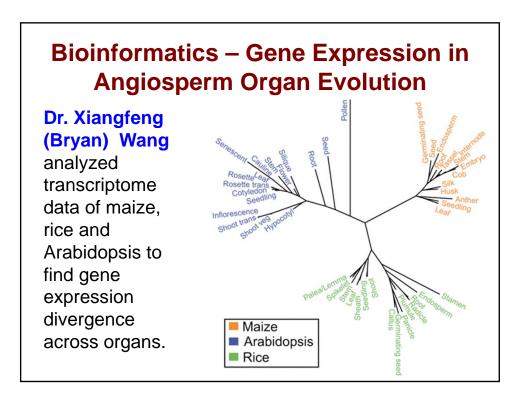
### **Plant-based Therapeutic**

Drs. Eliot Herman and Monica Schmidt work on developing a novel approach to prevent death in premature infants through addition a therapeutic protein to soybeans.









## Prevent Citrus Greening Disease

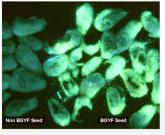
Dr. July Brown works on finding molecular interactions between psyllids and a bacterium causing citrus greening disease.







# **Reduce Aflatoxin in Crops**

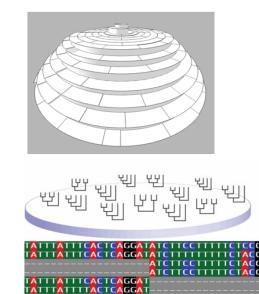






**Dr. Peter Cotty** works nationally and internationally on ways to reduce aflatoxins, toxic chemicals that certain fungi produce during crop infection.

## **Terraces in Phylogenetic Tree Space**



Dr. Michelle McMahon works on computational analyses to assemble the tree of life and developed new algorithms to find evolutionary relatedness.

# **Revealing Endophytic Fungal Diversity**

**Dr. Betsy Arnold** works on endophytic fungi and their evolution, physiology and morphology in various ecosystems.



## Growing Flavorful Strawberries in Arizona

#### Dr. Chieri Kubota

develops ways to grow high quality strawberry hydroponically in Arizona greenhouses for potential winter production.



## **Drought-tolerant Turfgrass**

Dr. Mohammad Pessarakli works on various turfgrass species and cultivars for major environmental stresses (salinity, drought, and heat stress) in Desert Southwest.



# **Establishing Guayule Production**



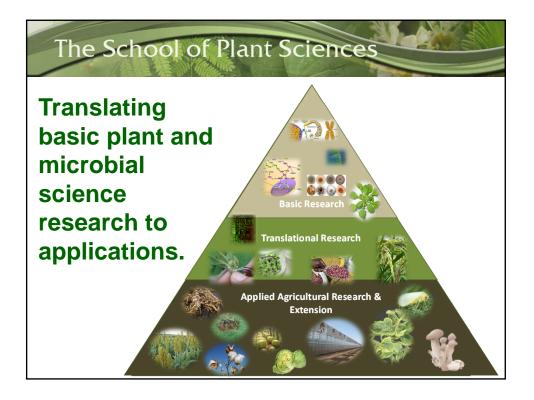
**Dr. Dennis Ray** works on introducing guayule as alternative crop in Arizona. Ray lab contributes to breeding guayule and improving horticultural practices to improve yields.





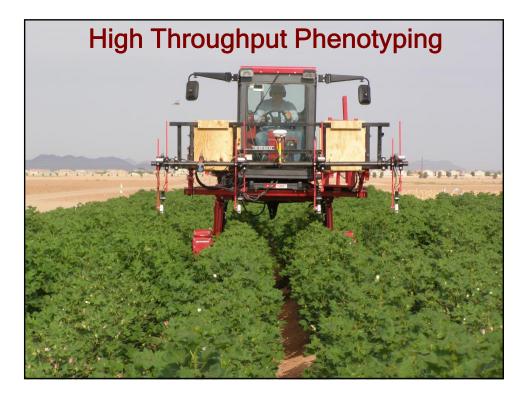












# The Arizona Phenotyping Network (AZPN) Yuma – Maricopa – Tucson



Rod Wing – UA Plant Sciences/Arizona Genomics Institute Matt Jenks – USDA/ARS Maricopa Chieri Kubota – UA Plant Sciences/Controlled Environmental Agriculture