

CATG Meeting

December 14: AM

07:30 AM Registration

08:15 AM Introduction Paul Gepts, UC Davis

8:25 AM Funding agencies Ed Kaleikay, USDA NRI

8:35 AM Fedora Sutton, NSF

08:40 AM **Plenary presentation: State of genome initiatives in other botanical families**

Invited speaker: Dani Zamir, Hebrew University, Israel
Title: *The International Solanaceae Genome Project (SOL): Biodiversity of Scientists and Plants*

09:20 AM **Plenary Presentation: Legume genomics in a phylogenetic context**

Invited speaker: Jeff J. Doyle, Cornell U.
Title: TBA

10:00 AM Coffee Break

10:30 AM **Plenary Presentation: Nutritional/anti-nutritional/allergenic/health factors**

Invited speaker: Mike Grusak, USDA-ARS, Houston, TX
Title: *Nutritional, anti-nutritional, allergenic, and other health-related aspects of food and forage legumes*

11:10 AM **Plenary presentation: Legume-microbe interactions**

Invited speaker: Ann Hirsch, UCLA
Title: *A Comparative Look at the Rhizobium-Legume Symbiosis*

11:50 AM **Plenary Presentation: Plant-pollinator interactions**

Invited speaker: Eran Pichersky, U. of Michigan
Title: *Plant Volatiles: Molecular, Biochemical, and Ecological Aspects*

12:30 PM Lunch break

December 14: PM

02:00 PM **Plenary discussion session: Cross-legume database**

(break around Discussion leader: Bill Beavis
Review of existing databases

3:30 PM)

What do "customers" expect from a legume database?

December 15: AM

08:30 AM **Break-out discussion sessions A & B**

Session A: Natural Variation, Evolution and Phylogenetics
Genus relationships, genetic distances, phenotype uniqueness.....what is available in collections and which legumes can offer what traits to who ? In other words, what can we reasonably expect to 'translate' to whom and how ? Includes discussion on how to establish (micro and macro)syteny among legumes.

Session B: Genome Biology and Genome Structure of the Legumes
What is unique to legumes ? What do we know about the general biology of legumes (secondary metabolites ? unique pathways that can be usurped for other purposes ? etc.)

10:00 AM Coffee break

10:30 AM **Break-out discussion sessions C & D**

C. Human nutritional issues that legume biology can address
Nutritional and anti-nutritional factors; proteins, vitamins, minerals, anti-oxidants, hormone analogs, etc

D. Biotic interactions unique to legumes and what is their significance
Rhizobium, mycorrhizae; disease and pest resistance genes; pollinators

December 15: PM

12:00 PM Lunch break

1:00 PM **Plenary discussion session: Objectives, Tools, and Milestones**

Reports from group discussions
Objectives

(break
around Coffee break

3:30 PM)

Objectives, tools, and milestones

05:00 pm Wrap-up
