

Gordon-Kenan Graduate Research Seminar (GRS) on Plant Metabolic Engineering

July 23-24, 2011 at Waterville Valley Resort, Waterville, New Hampshire

Chair: Hiroshi Maeda, Co-chair: Shannon Bell

Plants are chemical factories synthesizing thousands of organic compounds from atmospheric carbon dioxide and underground nutrients using sunlight energy. We increasingly rely on these compounds for our food, fiber, fuel, and medicines as the world's population expands and the need for renewable and sustainable chemicals grows; however, the lack of our knowledge about these factories prevents rational plant metabolic engineering. The third Gordon-Kenan Graduate Research Seminar (GRS) in Plant Metabolic Engineering brings together future research leaders in the field of plant metabolism, plant metabolic engineering and sub-disciplines, aiming to broaden our view beyond the current efforts in the field, foresee future needs in plant metabolic engineering, and continue to build a community to overcome various challenges in the discipline. The program is designed to facilitate thought-provoking discussion and stimulating interactions among attendees through poster and oral presentations, round-table discussion sessions and various off-time activities. The scientifically critical yet relaxed and friendly atmosphere of the meeting help to develop future collaborations and promote the professional growth of junior scientists. The GRS immediately precedes the Plant Metabolic Engineering Gordon Research Conference (GRC) and is designed specifically for and by young scientists including graduate students and post-doctoral scholars. We enthusiastically encourage participation of junior scientists from diverse backgrounds and experiences around the world.

July 23, 2011 (SATURDAY)

2:00 pm	Registration
3:30 pm - 4:30 pm	Ice-breaker introductory session Speakers selected from abstract
4:30 pm - 6:00 pm	Poster Session I
7:30 pm - 9:30 pm	Evening Session Keynote speaker (Cathie Martin, John Innes Centre) Speakers selected from abstract Round-table discussion I

July 24, 2011 (SUNDAY)

9:00 am - 11:00 am	Morning Session Speakers selected from abstract
11:00 am - 12:30 pm	Poster Session II
1:30 pm - 3:00 pm	Concluding Session Speakers selected from abstract Round-table discussion II



Please apply at www.grc.org/programs.aspx?year=2011&program=grs_plant. A total of eight speakers will be selected from the abstracts submitted by **March 23rd**, 2011. Please also apply for the **Gordon Research Conference on Plant Metabolic Engineering** separately from the link below. For any questions, please contact Hiroshi Maeda (hmaeda@purdue.edu).

Gordon Research Conference (GRC) on Plant Metabolic Engineering

Jul 24-29, 2011 (Waterville Valley Resort, Waterville Valley, NH)

Chair: Natalia Dudareva, Vice Chair: Dean Dellapenna

<http://www.grc.org/programs.aspx?year=2011&program=plantmetab>

- **Making Connections in Metabolic Networks** (Basil Nikolau / Mark Stitt / Lars Keld Nielsen)
- **Exploring Genetic and -omics Approaches for Understanding Complex Agronomic Traits**
(Elli Wurtzel / Kazuki Saito / Wilhelm Gruissem / Gad Galili)
- **Enzyme Plasticity: The Engine for Metabolic Engineering, Evolution and Chemical Diversication**
(Mary Schuler / Jonathan Gershenzon / Joseph Noel)
- **Metabolism in Non-model Species** (Sarah O'Connor / Joseph Chappell / Harro Bouwmeester / Joerg Bohlmann)
- **Integrating Metabolism and Cell Biology** (Rick Dixon / Andreas Weber / Ljerka Kunst)
- **Harvesting Energy and Bioconversion** (Blake Simmons / Jamie Cate / Clint Chapple / Susan Gregurick)
- **Plant Metabolic Engineering for Human Health** (Cathie R. Martin / Alison Smith / Barbara Halkier / Barry Pogson)
- **Synthetic Gene Networks and the Future of Biotechnology** (Gregory Stephanopoulos / Christopher Voigt / Mattheos Koffas)
- **Windows to the Future for Metabolic Engineering** (Joseph Hirschberg / Rick Dixon / Andrew Hanson)