

Schedule

Wednesday, May 27, 2009

8:00–4:00	Poster Set Up	McQuinn Atrium (1st Floor)
8:00	Registration/Continental Breakfast	McQuinn Atrium (1st Floor)
8:45–9:00	Welcome	Monsanto Auditorium
	Remarks	Gary Forsee, UM System President
9:00–9:40	Keynote Address	
	Roots of the second Green Revolution	Jonathan Lynch
9:40–10:00	Break	
SESSION 1: MODELING AND SYSTEMS		Monsanto Auditorium
	Session Chair: Heidi Appel	
10:00–10:40	Roots and nitrogen cycling	Louise Jackson
10:40–11:10	Measuring and modeling variation in root system architecture, plant water capture, and crop water productivity	Graeme Hammer
11:10–11:40	Computer models of auxin in the root	Eric Kramer
11:40–12:00	How a developmental window defines a position of a new lateral root initiation	Joseph Dubrovsky
12:00–2:00	Lunch	On your own
	<i>Map and restaurant guides available at registration desk</i>	
SESSION 2: SYMBIOSIS AND PATHOGENS		Monsanto Auditorium
	Session Chairs: Antje Heese & Walter Gassmann	
2:00–2:40	Shifting paradigms in functional diversity of arbuscular mycorrhizal symbioses	Sally Smith
2:40–3:10	Functional genomics of symbiotic nitrogen fixation	Michael Udvardi
3:10–3:40	Arbuscule development and mineral nutrient transport in the arbuscular mycorrhizal symbiosis	Maria Harrison
3:40–4:00	Break	
4:00–4:30	Soybean root hairs: a model for single-cell plant biology	Gary Stacey
4:30–5:00	How root-knot nematodes find and infect roots	Valerie Williamson
5:00–5:30	Mechanisms of CLE peptide mimicry in cyst nematode parasitism of roots	Melissa Mitchum
6:00–7:00	Reception	McQuinn Atrium (1st Floor)
	<i>With a jazz performance by Glasshouse, featuring Dann Adair</i>	
7:00	Dinner	On your own

Thursday, May 28, 2009

8:00 **Continental Breakfast** **McQuinn Atrium (1st Floor)**

SESSION 3: ABIOTIC STRESS **Monsanto Auditorium**

Session Chairs: Felix Fritschi & Melvin Oliver

- 9:00–9:40 Manipulating root growth and function under drought
to sustain yield and increase water use efficiency Bill Davies
- 9:40–10:10 Roots, the regulation of water use, and adaptation
of rainfed lowland rice Len Wade
- 10:10–10:30 Role of oxalate oxidase in apoplastic ROS generation and root
growth regulation under water deficit conditions Priya Voothuluru
- 10:30–10:50 Break
- 10:50 –11:20 Impact of salt stress on legume root architecture..... Florian Frugier
- 11:20–11:40 NIP2;1, a root-specific lactic acid transporter
induced by waterlogging and hypoxia in Arabidopsis Won-Gyu Choi

11:40–1:30 **Lunch** **On your own**

- 1:30–2:00 Involvement of fasciclin-like-arabinogalactan-proteins
in turgor regulation Steve Tyerman
- 2:00–2:30 Root thermotolerance mechanisms in perennial grasses:
from physiology to molecular biology..... Bingru Huang
- 2:30–2:50 Genetic analysis of root traits for water capture
in Solanum Andrew Thompson

3:00–5:30 **Poster Session** **McQuinn Atrium (1st Floor) & Reading Room**

6:00 **Student/Speaker Dinner** **McQuinn Atrium (1st Floor)**
Sponsored by:



Friday, May 29, 2009

8:00 **Continental Breakfast** **McQuinn Atrium (1st Floor)**

SESSION 4: DEVELOPMENT **Monsanto Auditorium**

Session Chair: Kathy Newton

- 9:00–9:40 Development rooted in interwoven networks Philip Benfey
9:40–10:10 Feeling green: mechanical signaling and root growth
in *Arabidopsis* Simon Gilroy
10:10–10:30 Suberin lamellae biosynthesis in *Iris germanica*'s
multilayered exodermis Chris Meyer
10:30–10:50 Break
10:50–11:20 Building a regulatory network for lateral
root emergence Benjamin Péret
11:20–11:50 Genetic dissection of maize root system
development Frank Hochholdinger

12:00 **Poster Take Down**

3:30–5:30 **Closing Reception** **McQuinn Atrium (1st Floor)**