Schedule

Wednesday, May 27, 2009

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>8:00–4:00</td>
<td>Poster Set Up</td>
<td>McQuinn Atrium (1st Floor)</td>
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<tr>
<td>8:00</td>
<td>Registration/Continental Breakfast</td>
<td>McQuinn Atrium (1st Floor)</td>
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<tr>
<td>8:45–9:00</td>
<td>Welcome</td>
<td>Monsanto Auditorium</td>
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<td></td>
<td>Remarks ......................................................................................... Gary Forsee, UM System President</td>
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<tr>
<td>9:00–9:40</td>
<td>Keynote Address</td>
<td>Monsanto Auditorium</td>
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<td>Roots of the second Green Revolution ........................................ Jonathan Lynch</td>
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<tr>
<td>9:40–10:00</td>
<td>Break</td>
<td>Monsanto Auditorium</td>
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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                        |
|        | Map and restaurant guides available at registration desk               | Monsanto Auditorium                |

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                                                                 | Monsanto Auditorium                |

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)        |
|        | With a jazz performance by Glasshouse, featuring Dann Adair            | Monsanto Auditorium                |

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 Voothulu

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:

Missouri Wines  Phenotype Screening Corporation  enabling discovery
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<td>Continental Breakfast</td>
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<tr>
<td>9:00-9:40</td>
<td>Development rooted in interwoven networks</td>
<td>Philip Benfey</td>
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<tr>
<td>9:40-10:10</td>
<td>Feeling green: mechanical signaling and root growth in Arabidopsis</td>
<td>Simon Gilroy</td>
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<td>10:10-10:30</td>
<td>Suberin lamellae biosynthesis in <em>Iris germanica’s</em> multilayered exodermis</td>
<td>Chris Meyer</td>
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<td>10:30-10:50</td>
<td>Break</td>
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<tr>
<td>10:50-11:20</td>
<td>Building a regulatory network for lateral root emergence</td>
<td>Benjamin Péret</td>
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<tr>
<td>11:20-11:50</td>
<td>Genetic dissection of maize root system development</td>
<td>Frank Hochholdinger</td>
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<td>12:00</td>
<td>Poster Take Down</td>
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<tr>
<td>3:30-5:30</td>
<td>Closing Reception</td>
<td>McQuinn Atrium (1st Floor)</td>
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