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## Transposon analysis and comparative genomics of the *Leptosphaeria maculans*-*L. biglobosa* species complex.

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**Dothideomycetes Comparative Genomics workshop**  
27<sup>th</sup> Fungal Genetics Conference at Asilomar  
March 12, 2013

**Organizers:**

Steve Goodwin, USDA-ARS/Purdue University ([sgoodwin@purdue.edu](mailto:sgoodwin@purdue.edu))  
Igor Grigoriev, US DOE Joint Genome Institute ([ivgrigoriev@lbl.gov](mailto:ivgrigoriev@lbl.gov))

**Agenda:**

*Dothideomycetes genome sequencing: status and future needs*

|             |  |  |
|-------------|--|--|
| 9:00-9:15   | Steve Goodwin, USDA-ARS/Purdue University                | Opening, introductions and goals   |
| 9:15-9:30   | Igor Grigoriev, JGI                                      | Overview of the Fungal Genomics Program at the JGI and the next CSP        |
| 9:30-9:45   | James Fountaine, SRUC, Scotland                          | Genome sequencing of the barley pathogen <i>Ramularia collo-cygni</i>      |
| 9:45-10:00  | Jerome Collemare, Wageningen University, the Netherlands | The genome of <i>Cladosporium fulvum</i>                                   |
| 10:00-10:15 | Chris Lawrence, Virginia Bioinformatics Institute        | Comparative genomics of virulence factors, <i>Alternaria</i> species       |
| 10:15-10:45 | <i>Break</i>   |  |
| 10:45-11:00 | Nada Krasevec, National Institute of Chemistry, Slovenia | Sequencing and analysis of cytochrome P450s in <i>Cochliobolus lunatus</i> |
| 10:45-11:00 | Jo Bowen/Kim Plummer, Australia and New Zealand          | Update on genome sequences of <i>Venturia</i> species                      |
| 11:00-11:15 | Klaas Schotanus, Max Planck Institute, Germany           | Centromeres of <i>Mycosphaerella graminicola</i>                           |
| 11:15-11:30 | Ronny Kellner, Max Planck Institute, Germany             | Transcriptome profiling of <i>Mycosphaerella graminicola</i>               |
| 11:30-11:45 | Stephen Poppe, Max Planck Institute, Germany             | Effectors in the genome of <i>Mycosphaerella graminicola</i>               |
| 12:00-13:00 | <i>Lunch</i>   |  |

*Comparative analyses of multiple genomes*

|             |   |  |
|-------------|---|--|
| 13:15-13:30 | Gert Kema lab, Wageningen, the Netherlands                  | Genomic analyses of <i>Mycosphaerella graminicola</i> and <i>M. fijiensis</i>            |
| 13:30-13:45 | Richard Hamelin lab, University of British Columbia, Canada | Comparative genome-wide scan in poplar-infecting <i>Mycosphaerella</i>                   |
| 13:45-14:00 | Shaobin Zhong lab, North Dakota State University            | Identification of virulence genes in <i>Cochliobolus sativus</i> by comparative genomics |

|   |   |  |
|---|---|--|
| 14:00-14:15                                 | Gillian Turgeon lab,<br>Cornell University        | <i>Cochliobolus</i> species and race variation   |
| 14:15-14:30                                 | Rohan Lowe, University of<br>Melbourne, Australia | <i>Leptosphaeria maculans</i> genomics in Australia  |
| 14:30-15:00                                 | <i>Break</i>                                      |  |
| 15:00-15:15                                 | Jonathan Grandaubert,<br>INRA, France             | Transposon analysis and comparative<br>genomics of the <i>Leptosphaeria maculans</i> - <i>L.</i><br><i>biglobosa</i> species complex |
| 15:15-15:30                                 | Robin Ohm, JGI                                    | Comparative genomics of 18 Dothideomycetes<br>genomes  |
| 15:30-15:45                                 | Steve Goodwin, USDA-<br>ARS/Purdue University     | Comparative analysis of mitochondrial<br>genomes of the Dothideomycetes  |
| 15:45-16:00                                 | Ben Horwitz, Technion<br>IIT, Israel              | Transcriptomics of <i>Cochliobolus</i><br><i>heterostrophus</i>  |
| <b><i>Future plans(open discussion)</i></b> |   |  |
| 16:00-17:00                                 | Igor Grigoriev/Steve<br>Goodwin                   | Publication plans, future collaborative grant<br>opportunities and next CSP proposals  |