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## Deciphering plant fungal infection using comparative genomics.

Marc-Henri M.-H. Lebrun

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# Program

## 5<sup>th</sup> Conference on Physiology of Yeast and Filamentous Fungi June 4 - 7, 2013, Montpellier

### Tuesday, June 4th 2013

17.30	<b>Registration</b>
18.30 – 20.00	<b>Welcome cocktail</b> at the Corum with the support of Pernod-Ricard

### Wednesday, June 5<sup>th</sup> 2013

8.00	<b>Registration</b>
8.30	<b>Opening</b>
	<b>Session 1 – From genome sequence to cell physiology and morphology</b> Chairs: <i>David Archer and Sylvie Dequin</i>
9.00	<b>Invited lecture</b> Gianni Liti (CNRS, Nice, France) <b>Yeast cell physiology: insights from natural variation</b>
9.35	Warren Albertin (ISVV, Villenave d'Ornon, France) <b>Leading role of post-translational modifications in the control of metabolic and life-history traits</b>
9.55	Valentina Cappelletti (Fondazione Edmund Mach, San Michele all'Adige, Italy) <b>Systems biology approach for the identification of genetic determinants of colony morphology switch in natural <i>S. cerevisiae</i></b>
10.15 – 10.45	<b>Coffee / Tea break</b>
10.45	<b>Invited lecture</b> Zheng Zhao (DSM, Wageningen, The Netherlands) <b>Exploring fungal genome diversity for industrial product formation</b>
11.20	Agustina Llanos (INRA, Toulouse, France) <b>Regulation of the expression of glycoside hydrolase-encoding genes in <i>Penicillium funiculosum</i></b>
11.40	Robert Bischof ( VUT, Vienna, Austria) <b>Differences of the lactose and lignocelluloses induced transcriptome of <i>T. reesei</i></b>
12.00 – 13.30	<b>Lunch</b>
13.30 – 15.00	<b>Poster session</b>

	<b>Session 2 – Metabolic engineering and synthetic biology</b> <i>Chairs: Jack Pronk and Arthur Kruckeberg</i>
15.00	<b>Invited lecture</b> Eckhard Boles (Goethe University, Frankfurt, Germany) <b>Re-engineering of glucose transporters into xylose transporters for improved co-fermentation of mixed-sugar hydrolysates with <i>S. cerevisiae</i></b>
15.35	Frank Koopman (Delft University of Technology, Delft, The Netherlands) <b>De novo production of the flavonoid naringenin in engineered <i>Saccharomyces cerevisiae</i></b>
15.55	Uffe Mortensen (Technical University of Denmark, Lyngby, Denmark) <b>Efficient platforms for secondary metabolite production in <i>Saccharomyces cerevisiae</i></b>
16.15 – 16.45	Coffee / Tea break
16.45	<b>Invited lecture</b> Jean-Marc Daran (Delft University of Technology, Delft, The Netherlands) <b>Improving production of <math>\beta</math>-lactam antibiotics by <i>Penicillium chrysogenum</i> - Metabolic engineering based on transcriptome analysis</b>
17.20	Laurent Boitard (ESPCI, PARIS, France) <b>Droplet-based micro/millifluidics for the analysis and screening of fungi</b>
17.40	Jette Thykaer (Technical University of Denmark, Lyngby, Denmark) <b>Regulatory aspects of acid formation in <i>Aspergillus niger</i></b>
18.00	<b>End</b>

Thursday, June 6<sup>th</sup> 2013

	<p><b>Session 3 – Response and tolerance to stress</b></p> <p>Chairs: <i>Isabel Sá Correia and Marie-Françoise Gorwa-Grauslund</i></p>
9.00	<p><b>Invited lecture</b> Gertien Smits (University of Amsterdam, The Netherlands) <b>The smallest signal: protons as second messenger of environmental status in yeasts</b></p>
9.35	<p>Daniel Gonzalez Ramos (Delft University of Technology, Delft, The Netherlands) <b>A combination of genome-scale analyses and evolutionary engineering of butanol tolerance in <i>Saccharomyces cerevisiae</i> reveal an essential role of protein degradation</b></p>
9.55	<p>Catherine Tesnière (INRA, Montpellier, France) <b>Nitrogen excess triggers yeast cell death in lipid-limited must</b></p>
10.15 – 10.45	<b>Coffee / Tea break</b>
10.45	<p><b>Invited lecture</b> David Archer (University of Nottingham, United Kingdom) <b>Responses of yeasts and filamentous fungi to the stress of exposure to weak-acid preservatives</b></p>
11.20	<p>Antonio Pedro Gonçalves (ICBAS-University of Porto, Porto, Portugal) <b>Calcium and cell death in <i>Neurospora crassa</i></b></p>
11.40	<p>Anna Eliasson Lantz (Technical University of Denmark, Lyngby, Denmark) <b><i>Saccharomyces cerevisiae</i> population heterogeneity dynamics in response to growth rate and glucose perturbations</b></p>
12.00 – 13.30	<b>Lunch</b>
13.30 – 15.00	<b>Poster session</b>
	<p><b>Session 4 – System-based understanding of cell physiology</b></p> <p>Chairs: <i>Merja Penttilä and Eckhard Boles</i></p>
15.00	<p><b>Invited lecture</b> Jens Nielsen (Chalmers University, Gothenburg, Sweden) <b>Advancing metabolic engineering of fungal cell factories through systems biology</b></p>
15.35	<p>Bas Teusink (University Amsterdam, Amsterdam, The Netherlands) <b>Cracking the TPS mystery in yeast glycolysis</b></p>
15.55	<p>Markus Bisschops (Delft University of Technology, Delft, The Netherlands) <b>The role of Rim15 in <i>Saccharomyces cerevisiae</i> at near-zero growth rates</b></p>
16.15 – 16.45	<b>Coffee / Tea break</b>
16.45	<p><b>Invited lecture</b> Marc-Henri Lebrun (INRA, Versailles, France) <b>Deciphering plant fungal infection using comparative genomics</b></p>
17.20	<p>Elke Nevoigt (Jacobs University Bremen, Bremen, Germany) <b>Re-evaluation of glycerol utilization in the species <i>Saccharomyces cerevisiae</i></b></p>
17.40	<p>Antonio Di Pietro (University of Cordoba, Cordoba, Spain) <b>pH controls invasive fungal growth by reprogramming MAPK phosphorylation status</b></p>
18.00	<b>End</b>
	<b>Gala dinner at “domaine des Moures” with the support of JeanJean</b>

Friday, June 7<sup>th</sup> 2013

	<b>Session 5 – Physiology in relation to natural habitats</b> <i>Chairs: Jean-Marie François and Antonio di Pietro</i>
9.00	<b>Invited lecture</b> José Sampaio (Universidade Nova de Lisboa, Lisbon, Portugal) <b>Surveying wild lineages of <i>Saccharomyces</i> to understand patterns of domestication</b>
9.35	Thomas Walther (INSA, Toulouse, France) <b>Metabolic phenotypes of <i>Saccharomyces cerevisiae</i> mutants with altered trehalose-6-phosphate dynamics</b>
9.55	Jean-Luc Legras (INRA, Montpellier, France) <b>First insights into adaptation of yeast to anthropic niches using comparative genomics</b>
10.15 – 10.45	<b>Coffee / Tea break</b>
10.45	<b>Invited lecture</b> Gerhard Braus (University Göttingen, Germany) <b>Coordination of fungal secondary metabolism and development in different habitats</b>
11.20	Ulrich Terpitz (University Würzburg, Würzburg, Germany) <b>Biophysical analysis of the fungal rhodopsin CarO of <i>Fusarium fujikuroi</i></b>
11.40	Joost van den Brink (CBS-KNAW Fungal Biodiversity Centre, Utrecht, the Netherlands) <b>Biodiversity of Chaetomiaceae for efficient plant biomass degradation</b>
12.00 – 13.30	<b>Lunch</b>
	<b>Session 6 – Organelles, trafficking and secretion</b> <i>Chairs: Gerhard Braus and Diethard Mattanovich</i>
13.30	<b>Invited lecture</b> Brigitte Gasser (University of Natural Resources and Life Sciences Vienna, Austria) <b>Folding and secretion of heterologous proteins in yeasts – A genome scale perspective</b>
14.05	Claudia Schmidt (Graz University of Technology, Graz, Austria) <b>Regulation of the yeast triacylglycerol lipase Tgl3p by formation of non-polar lipids</b>
14.25	Tatiana Aguiar (Universidade do Minho, Braga, Portugal) <b>Unique transcriptional responses of <i>Ashbya gossypii</i> to endoplasmatic reticulum stress</b>
14.45	<b>Invited lecture</b> Markku Saloheimo (VTT Technical Research Centre of Finland, Finland) <b>Protein production studies in <i>Trichoderma reesei</i>: intracellular production strategies as an alternative for challenging target proteins</b>
15.20	Tran-Trung Nguyen (CNRS, Orsay, France) <b>PaYHM2, the Podospora anserina ortholog of <i>Saccharomyces cerevisiae</i> Yhm2p mitochondrial carrier is an essential gene in filamentous fungus</b>
15.40	Benjamin Nitsche (Berlin University of Technology, Berlin, Germany) <b>Exploiting transcriptomic signatures of <i>Aspergillus niger</i> to uncover key genes important for high protein traffic through its secretory pathway</b>
16.00	<b>Poster awards and closing</b>
16:30	<b>End</b>