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Deciphering plant fungal infection using comparative genomics.

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► **To cite this version:**

Marc-Henri M.-H. Lebrun. Deciphering plant fungal infection using comparative genomics.. 5th Conference on Physiology of Yeast and Filamentous Fungi,, Jun 2013, Montpellier, France. hal-01004307

HAL Id: hal-01004307

<https://hal.science/hal-01004307>

Submitted on 5 Jun 2020

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Program

5th Conference on Physiology of Yeast and Filamentous Fungi June 4 - 7, 2013, Montpellier

Tuesday, June 4th 2013

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

Wednesday, June 5th 2013

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

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

Thursday, June 6th 2013

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

Friday, June 7th 2013

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