

2014 Fusarium Workshop



9:00 Opening

I. *Fusarium-host interaction* (7)

Chair: **M. Isabel González Roncero**

- 9:15 Polygalacturonase profile of the tomato wilt pathogen *F. oxysporum* f. sp. *lycopersici*
Gustavo Bravo Ruíz, C. Ruiz-Roldán, M.I.G. Roncero.
- 9:30 Dynamics of colonization of common bean by highly virulent and weakly virulent strains of *F. oxysporum*: microscopic analysis
Jonathan Niño-Sánchez; V. Tello, V. Casado-del Castillo, J.M. Díaz-Mínguez.
- 9:45 *Fusarium graminearum* is able to manipulate ethylene production
T. Svoboda, G. Wiesenberger, A. Parich, H. Michlmayr, D. Schöfbeck, C. Schmeitzl, R. Krska, R. Schuhmacher, **Gerhard Adam**.
- 10:00 The adenylyl cyclase plays a regulatory role in the morphogenetic switch from vegetative to pathogenic lifestyle of *Fusarium graminearum* on wheat.
Jörg Bormann, M.J. Boenisch, E. Brückner, D. Firat, W. Schäfer.
- 10:15 Oxylipins quantification in *Fusarium verticillioides* *in vitro* and during its interaction with maize kernels
Valeria Scala, L.M. Reverberi, E. Camera, C. Dall'Asta, P. Giorni, P. Battilani, C. Fanelli.
- 10:30 The bindings site of a transcription factor encoded on both core and accessory genomes of *Fusarium oxysporum* f. sp. *lycopersici* is enriched in the promoters of effector genes.
H. Charlotte van der Does, A. Yang, T. Hughes, M. Rep.
- 10:45 Identification of a mycovirus in *Fusarium oxysporum* f. sp. *dianthi* which affects phenotypic traits of the fungal host.
Carlos G. Lemus-Minor, C. Cañizares-Nolasco, M.D. García-Pedrajas, E. Pérez-Artés.

11:00 COFFEE BREAK

II. *Regulation, signal detection and secondary metabolism* (7)

Chair: **Bettina Tudzynski**

- 11:30 Regulatory mechanisms controlling fumonisin production in the rice pathogen *Fusarium fujikuroi*.
Sarah M. Rösler, H.U. Humpf, B. Tudzynski.
- 11:45 Membrane stability of the *Fusarium fujikuroi* Gap1-homologue Aap1 depends on ubiquitination of conserved lysine residues but is not mediated by Npr1-like kinases.
Andreas Pfannmüller, D. Wagner, B. Schönig, A.M. Marini, B. Regenber, B. Tudzynski.

- 12:00 Participation of the photoreceptors WcoA, CryD and VvdA in photoinduction of carotenogenesis in *F. fujikuroi*.
Marta Castrillo, J. Avalos
- 12:15 Light sensing in *Fusarium fujikuroi*: interdisciplinary analysis of the fungal rhodopsin CarO.
J. Garcia-Martínez, D. Lühders, M. Brunk, J. Avalos, **Ulrich Terpitz**.
- 12:30 Infection process restores defective DON production in a *F. graminearum* Heterochromatin protein 1 (Hep1) mutant.
Stefan Bödi, H. Berger, M. Imer, M. Sulyok, V. Preiser, M. Lemmens, H. Bürstmayr, R. Krska, K. Brunner, J. Strauss.
- 12:45 Metabolomics of growth and type B trichothecenes production in *Fusarium graminearum*.
L. Legoahec, V. Atanasova-Penichon, **Nadia Ponts**, C. Deborde, M. Maucourt, S. Bernillon, A. Moing, F. Richard-Forget.
- 13:00 Production of a new type A trichothecene by isolates of *Fusarium graminearum*.
Gerlinde Wiesenberger, E. Varga, C. Hametner, R. Stücker, H.C. Kistler, T.J. Ward, D. Schöfbeck, M. Sulyok, R. Krska, R. Schuhmacher, F. Berthiller, G. Adam.

13:15 LUNCH

III. *Evolution and genome dynamics (5)*

Chair: **Robert H. Proctor**

- 14:45 Evolutionary history of structural variation of trichothecene mycotoxins.
Robert H. Proctor, A.M. Stanley, M.G. Malmierca, N.J. Alexander, Daren W. Brown, S. Gutiérrez, S.P. McCormick.
- 15:00 Phylogeny of *Fusarium* species in EU project MycoRed: a tool for screening biodiversity at global level.
A. Villani, A. Susca, G. Mulè, S. Somma, G. Stea, **Antonio F. Logrieco**, A. Moretti.
- 15:15 Spontaneous *F. oxysporum* revertants carrying deletions and duplications of large chromosomal segments.
Elena Pérez-Nadales, L. Prysycz, T. Gabaldón, A. Di Pietro.
- 15:30 Transfer and stability of lineage-specific chromosomes in *Fusarium oxysporum*.
Ido Vlaardingerbroek, M. Rep.
- 15:45 Nuclear dynamics and mitosis in *Fusarium oxysporum* is more complex than previously described.
Shermineh Shahi, M. Rep.

16:00 Closing remarks and collaboration proposals