32nd Fungal Genetics Conference - Fusarium Workshop 2024

Tuesday, 12 March 2024, 9:00 AM – 5:15 PM, Chapel

9:00 – 9:10 Welcome and instructions for *"Top unanswered questions in Fusarium"*		
9:10 – 09:40 Keynote speaker: Amey Redkar Title: Decoding the interconnected life across scales in *Fusarium* wilt pathogenesis - from molecules to ecosystems		
9:40 – 10:25 Tribute session "20 years of *Fusarium oxysporum* Six effectors" (Rep *et al*., 2004, Mol Microbiol) **Chair: Domingo Martínez-Soto**		
9:40 – 9:55	Madison Newman	Comparative proteomic analysis of *Solanum lycopersicum* in response to endophytic and pathogenic strains of *Fusarium oxysporum*
9:55 – 10:10	Babette Vlieger	Exploring host compatibility in *Fusarium oxysporum*-cucurbit interactions through ECC1 effector analysis
10:10 – 10:25	Andrea Doddi	A novel broad range effector from *Fusarium oxysporum* is able to induce cell death hijacking plant immune system
10:25 – 10:55		*****Coffee Break******
10:55 – 12:25 Session "Pathogenic interactions" **Chair: Thomas Baldwin**		
10:55 – 11:10	Luca Degradi	Two genomes of *Fusarium verticillioides* from human patients: a comparative genome analysis
11:10 – 11:25	Hye-Seon Kim	Genome-wide identification of effectors and variant effects from across the breadth of diversity of *Fusarium*
11:25 – 11:40	Lily Peck	Horizontal transfers between fungal *Fusarium* species contributed to successive outbreaks of coffee wilt disease
11:40 – 11:55	Mitch Elmore	Integrative multi-omics analyses of host and pathogen signaling during *Fusarium* Head Blight disease of cereals
11:55 – 12:10	Thomas Witte	Accessory chromosomes are reservoirs of unique secondary metabolite biodiversity in *Fusarium poae*
12:10 – 12:25	Lily Lofton	Inter-fungal warfare in the maize kernel: mechanism of pyrrocidine-induced fumonisin elimination

12:25 – 2:00	*****Lunch Break******	
2:00 – 3:00 Session "Gene regulation" and Short Talks (Research Snapshots) **Chair: Slavica Janevska**		
2:00 – 2:15	Allyson Erlendson	Mutations in core PRC2 components reveal targeting mechanism of H3K27me3 to sub-telomeric chromatin in *Fusarium graminearum*
2:15 – 2:30	Ana Rodríguez López	Developmental regulation of transposon activity drives adaptation in the clonally evolving fungal pathogen *Fusarium oxysporum*
2:30 – 2:34	Erika Kroll	FgCWP1: A novel protein involved in MAP-kinase regulation of the cell wall integrity pathway
2:34 – 2:38	Bradley Laflamme	Exploring the efficacy of cationic amphiphilic drugs for controlling *Fusarium graminearum*-borne disease
2:38 – 2:42	Fabio Gherlone	Structural and molecular investigation of secondary metabolite compartmentalization in fungal vesicles
2:42 – 2:46	Rafael Palos Fernández	Role of Mac1-dependent copper acquisition and superoxide dismutase activity in *Fusarium oxysporum* pathogenicity
2:46 – 2:50	Gengtan Li	Investigation of potential CFEM proteins that contribute to host recognition in *Fusarium oxysporum* 47
2:50 – 2:54	Abbeah Navasca	Exploring the unique genome of *Fusarium solani* in sugarbeet: Insights on its opportunistic habits
2:54 – 2:58	Christopher Blackman	The pan-genomic effectome of the *Fusarium sambucinum* species complex
3:00 – 3:30	*****Coffee Break******	
3:30 – 3:45 Discussion *"Top unanswered questions in Fusarium"*		
3:45 – 4:45 Discussion "Nomenclature issues in the post-genomic era", Chair: Li-Jun Ma 1) Barbara Robbertse (Comparative Genomics Resource at NCBI): New possibilities to advance *Fusarium* research 2) Madison Newman: Consolidation of genome annotation -- a case study using *Fusarium oxysporum Fo* 47 3) FungiDB		
4:45 – 5:15 Keynote speaker: Shay Covo Title: The DNA damage response of *Fusarium oxysporum* - There are unknown unknowns		