ICPP 2018 - Sixth International Oomycetes Workshop

Oomycetes in the era of Plant Health in A Global Economy

Boston, Massachusetts, USA - July 28, 2008

Workshop organized by the ISPP – SMC Oomycetes to celebrate the 50th anniversary of ISPP



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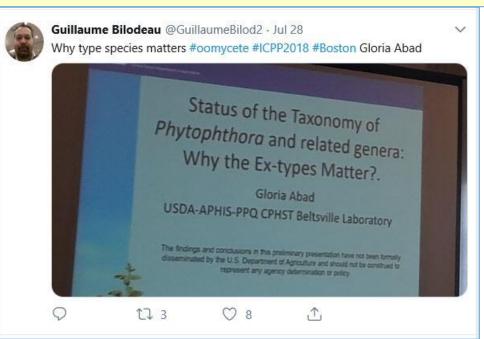


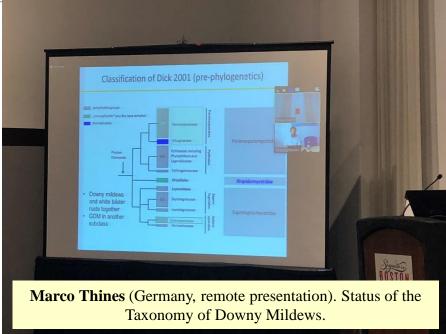




ICPP 2018 - 6th
International Oomycetes
Workshop welcoming
remarks by Mary Palm
(APS 2018 President) and
Introduction by Gloria
Abad (Chair and
organizer of the event).
In bottom participants of
the event attending
presentation from Frank
Martin (USDA-ARS)

Session #1: Taxonomy and Nomenclature: Past, present, and future. Moderator: Hai Nguyen (Canada)





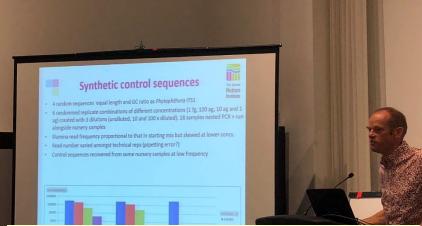




Session #2: Identification and diagnostics: From the traditional tools to the Innovative Genomic Sequencing Technologies (IGST) including NGS and TGS. Moderator: Guillaume Bilodeau (Canada)



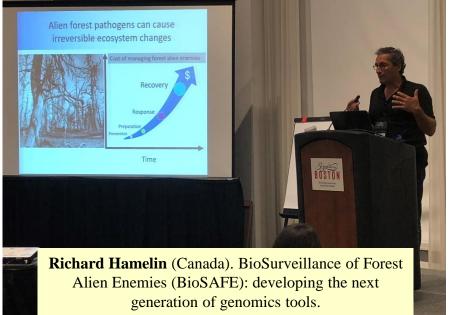
Steven Jeffers (USA). **Topic:** Isolation and identification of *Phytophthora* species the "old-fashioned" way.



David Cooke with 7 co-authors (UK). The validation of eDNA barcoding in the study of *Phytophthora* diversity for plant health testing and natural ecosystem surveillance.



Frank Martin (USA). **Topic:** Mitochondrial Genomics: a systematic method for development of loci for diagnostics, taxonomy, phylogenetics and metagenomic studies.



SESSION #3: Diversity in cultivated and natural environments: The global spread of pathogens.

Moderator: Ronald French (USA).



Mildews









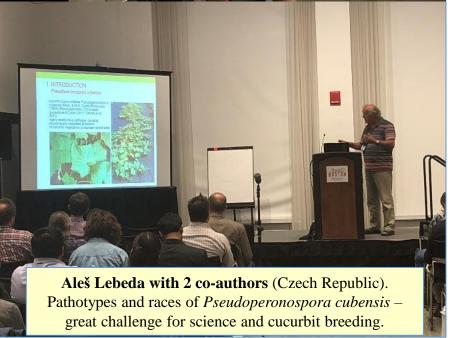


Session #4: Management and control: Advanced IPM-tools, improved biocontrol, enhancing resistance, sustainable production, agricultural systems for the future.





Lina Quesada with 3 co-authors (USA). Developing biosurveillance tools for improved management of the cucurbit downy mildew pathogen *Pseudoperonospora cubensis*.







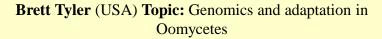


Session #5: Plant pathogenic Oomycetes of concern: Trade regulations, advanced monitoring and certification. Moderator: Yazmin Rivera (USA). Speakers: A) Jo Anne Crouch (USA), Nicholas Le Blanc (USA), Catalina Salgado-Salazar (USA). **Topic:** Emerging downy mildews: The same old pathogens or new enemies?. B) Susan J. **Frankel** (USA). An Update on *Phytophthora* ramorum, P. tentaculata and other species of regulatory concern in the USA; C) Sarah Green (FR), David Cooke (JHI) with 11 co-authors (UK). Phytophthora in plant nursery settings, engaging with stakeholders and early initiatives on accreditation in UK.



Session #6. Plant pathogenic Oomycetes: The era of genomics and microbiomics.





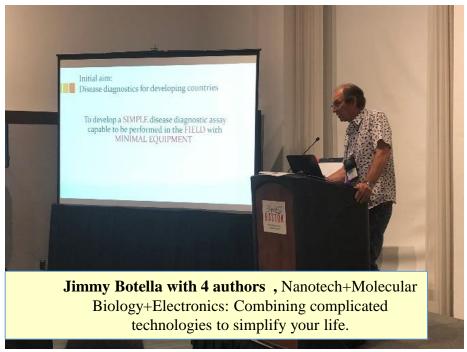


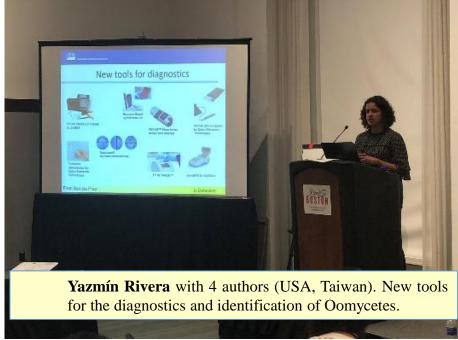




Richard Michelmore with 15 co-authors (USA, India and Philippines). Comparative Genomics of Downy Mildews.

Session #7. New technologies for Oomycete research: looking to the future.





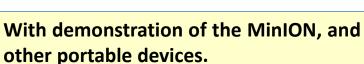


Shankar Shakya, **Niklaus Grünwald** with 11 co-authors (USA, Czech Republic, Australia, Italy. Analysis of global populations of *Phytophthora cinnamomi* suggests presence of two dominant clonal lineages and evidence of sex in Southeast Asia.



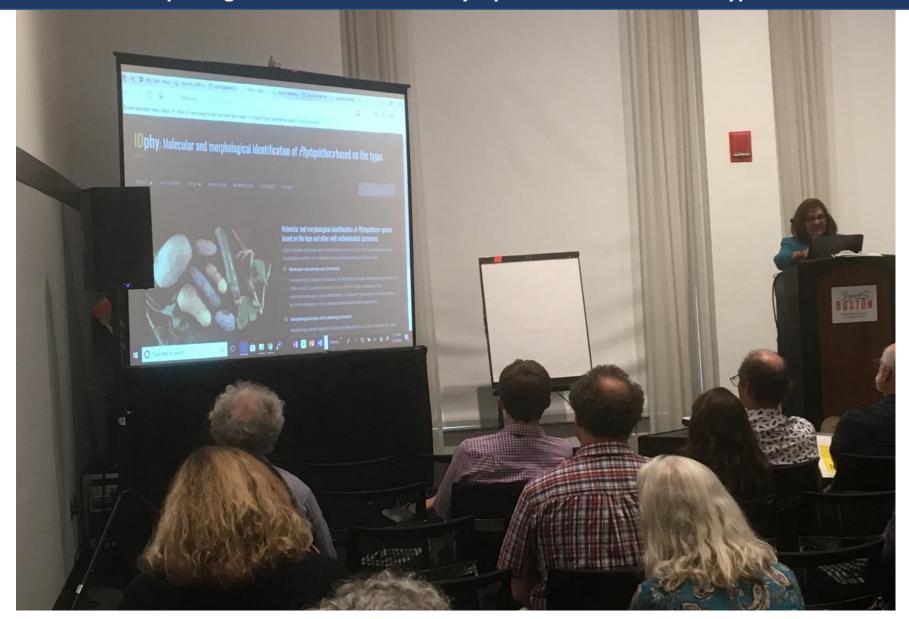
Session #7. James Brayer (UK-USA Oxford Nanopore Technology). Portable Sequencing for Disease Detection, Diagnosis, Discrimination, and Discovery in Biological areas.





Portable Sequencer to access all areas:
MinION in traditional labs plus
International Space Station, the Indian
Ocean, the Artic Guinea (Ebola
Monitoring), Tanzania (frog species
surveillance), Under the sea
(NASA/NEEMO), Brazil (Zika surveilance).

Session #7. Gloria Abad (USA), Treena Burgess (Australia), John Bienapfl (USA), Amanda Redford (USA), Michael Coffey (USA) and Leandra Knight (USA). **IDphy: Molecular and Morphological Identification of** *Phytophthora* Based on the Types.



ICPP 2018 - Sixth International Oomycetes Workshop in Twitter







PathSensors, Inc. @PathSensorsInc · Jul 31

What a great time at the 6th International #Oomycetes workshop at #ICPP2018! Wonderful folks doing interesting work









ICPP 2018 - Sixth International Oomycetes Workshop – Breaks with posters