



Wild Plant Pathosystems 2016 Helsinki

Sunday 28.8. Pre-conference cocktail party & registration at Natural History Museum

Address Pohjoinen Rautatiekatu 13

18.30 – 21.00

Monday 29.8. Talks and poster session in the University Main Building

Address Unioninkatu 34, 3rd floor, auditorium XIV

Session I chair: Ales Lebeda

9.00 – 9.15 Welcoming words

9.15. – 9.45 Eric Holub: Arabidopsis species provide insights for anticipatory breeding of durable white rust resistance in Brassica crops

9.45. – 10.15 Bruce McDonald: The origin and spread of wheat blast

10.15 – 10.45 *Coffee*

10.45 – 11.15 Laura Rose: The interplay of pathogens, microRNAs, and regulation of resistance gene transcript abundance in tomatoes

11.15 – 11.45 Eva Stukenbrock: Comparative population genomics of closely related plant pathogens from natural grasslands and agro-ecosystems

11.45 – 12.00 Agathe Jouet: The adaptive evolution of the plant pathogen *Albugo candida*

12.00 – 12.15 Detlef Weigel: Autoimmunity and evolution of the plant immune system

12.15 – 13.30 *Lunch*

Session II chair: Laura Rose

13.30 – 14.00 Michael Shaw: The endophytic-pathogenesis continuum in *Botrytis* species in wild hosts

14.00 – 14.15 Hanna Märkle: Bayesian inference of host-parasite coevolution: Revealing loci running with the Red Queen

14.15 – 14.30 Remco Stam: Using pooled enrichment sequencing to understand R-gene durability and diversity in wild tomato

14.30 – 14.45 Poster pitching

14.45 – 16.15 *Coffee* and poster session in a hall of other side of the building

16.15 – 16.45 Michael Hood: Resistance transitivity across endemic and host-shift pathogens.



16.45 – 17.15 Jeremy J Burdon: Long-term epidemic dynamics and its evolutionary implications.

17.45 *Boat to Suomenlinna departs from Market Square*

18.30 *Free walk in Suomenlinna*

19.30 *Conference dinner*

22.30 *Boat back*

Tuesday 30.8. Talks in Haltia, the Finnish Nature Centre and walk in Nuuksio national park

8.30 *Bus leaves from Mikonkatu-street, on the side of Railway Station Square*

9.15 *Bus arrives to Haltia*

Session III chair: Erin Mordecai

9.30 – 10.00 John Walsh: The genetic diversity and host range of Turnip yellows virus (TuYV), a common virus infecting cultivated brassicas and wild plants in Europe

10.00 – 10.30 Janis Antonovics: Vector-based disease transmission in a spatially explicit context; field studies and theory

10.30 – 11.00 *Coffee*

11.00 – 11.30 Pascal Frey: When a plant pathogen runs down a river: population genetics of the poplar rust epidemics in the Durance River valley

11.30 – 12.00 Samuel Soubeyrand: Exploring data from wild plant pathosystems with recent modeling and inference techniques

12.00 – 13.00 *Lunch*

Session IV chair: Eric Holub

13.00 – 13.15 Fletcher Halliday: Seasonal variation, within-host priority effects, and fungal interactions jointly influence parasite epidemics in a grass host

13.15 – 13.30 Mark McMullan: Plant pathogen evolution across the wild-agricultural boundary

13.30 – 13.45 Laura Masini: Unravelling the defence arsenal of the wild *Solanum dulcamara* to *Pythophthora infestans*

13.45 – 14.00 Philippe Roumagnac: Deciphering plant-associated viruses at the agroecosystem scale using metagenomics

14.00 – 14.15 Nilsa Bosque-Perez: The prevalence of Barley yellow dwarf viruses in grassland habitats is influenced by diverse agroecological and environmental factors

14.30 *Walk in Nuuksio*

17.00 *Bus back to Helsinki*



Wednesday 31.8. Talks and poster session in the University Main Building

Address Unioninkatu 34, 4th floor, auditorium XV

Session V Jeremy J Burdon

9.00 – 9.15 Oliver Furzer: Exploring Brassicaceae NLR diversity with Resistance gene enrichment sequencing

9.15. – 9.30 Antoine Persoons: Field pathogenomics: Developing new tools for interrogating cereal invaders

9.30 – 10.00 Ales Lebeda: Interactions between wild Lactuca species and *Golovinomyces cichoracearum* – complex view

10.00 – 10.30 *Coffee*

10.30 – 11.00 Marie-Laure Desprez-Loustau: Oak powdery mildew in Europe one century after the invasion: some hypotheses about ecological, evolutionary and anthropogenic changes in the pathosystem

11.15 – 11.45 Gregory Gilbert: Phylogenetic prediction of the disease landscape in wild plant pathogen networks

11.45 – 12.00 Levente Kiss: A hidden friend of allergic people? Deciphering the biology of *Phyllachora ambrosiae*, an enigmatic, obligate biotrophic fungal pathogen of common ragweed (*Ambrosia artemisiifolia*)

12.00 – 12.15 Jenalle Eck: Soil microbial community impacts on tropical tree seedling growth promote seedling diversity within a tropical tree population

12.15 – 13.30 *Lunch*

Session VI chair: Eva Stukenbrock

13.30 – 13.45 Emme Bruns: Disease at species range margins: Co-distribution of alpine plant species and their vector-transmitted pathogens.

13.45 – 14.00 Kari Saikkonen: Endophytic fungi latent pathogens or defensive plant mutualists?

14.00 – 14.30 Erin Mordecai: Generalist pathogens impact survival and reproduction in California grasslands

14.30 – 14.45 Poster pitching

14.45 – 16.15 *Coffee* and poster session in a hall of other side of the building

16.15 – 16.45 Alison Power: From Plant Communities to Coinfections: Plant Virus Ecology at Multiple Scales

16.45 – 17.15 Anna-Liisa Laine: Variation in within-host pathogen communities: causes and consequences

17.15 Next WPP