

4TH INTERNATIONAL *Erwinia* Workshop (IEW)

Conference program

Saturday, July 2 2022

12.00-12.30	Participants registration and poster mounting	
12.30-13.30	Lunch	
Session 1.		
Chair: Humphris Sonia		
13.30-13.40	Welcome: Toth Ian	
13.40-14.00	Czajkowski Robert Potato blackleg and soft rot in the Subarctic and Boreal agricultural regions – a cause study from Greenland	S1-KN1
14.00-14.15	Biondi Enrico Biological control of <i>Erwinia amylovora</i> using essential oils-based products <i>in vitro</i> and <i>in vivo</i>	S1-O1
14.15-14.30	van der Wolf Jan Initial infection of seed potatoes with soft rot <i>Pectobacteriaceae</i>	S1-O2
14.30-14.45	Ben Moussa Hajar <i>P. aquaticum</i> and <i>P. quasiahquaticum</i> , two newly described species isolated from river water with a peculiar evolution within the <i>Pectobacterium</i> genus	S1-O3
14.45-15.00	Grace Emily Characterisation of phage that lyse <i>Gibbsiella quercinecans</i> , a causative agent of Acute Oak Decline	S1-O4
15.00-15.30	Coffee break	
Sessions 2.		
Chair: Secor Gary		
15.30-15.45	Humphris Sonia New approaches to blackleg disease control	S2-O1
15.45-16.00	McGuire Daniel Assessment of <i>Erwinia amylovora</i> detection and cell viability in <i>Pyrus communis</i> cv. 'Rocha' samples by immuno-flow cytometry	S2-O2
16.00-16.15	Alič Špela <i>Dickeya fangzhongdai</i> – a close threat or a distant foe?	S2-O3
16.15-16.30	Yedidia Iris Susceptibility of plants in the genus <i>Zantedeschia</i> to bacterial soft rot is affected by adaptations to different ecosystems	S2-O4

Sunday, July 3 2022

Session 3.		
Chair: van der Wolf Jan		
9.00-9.10	Welcome: Toth Ian	
9.10-9.30	Rezzonico Fabio An app for apples: citizen-led mapping of fire blight in Central Asia	S3-KN1
9.30-9.45	Van Gijsegem Frédérique The soft rot plant pathogens <i>Dickeya dianthicola</i> and <i>Dickeya solani</i> show a high genetic diversity	S3-O1
9.45-10.00	Kurm Viola Microbiome mediated potato resistance against SRP	S3-O2

10.00-10.15	Secor Gary Petiole testing to assess potato foliar resistance to <i>Dickeya dianthicola</i>	S3-O3
10.15-10.30	Yang Ching-Hong Novel bacterial metabolites to treat citrus Huanglongbing, citrus canker, and fire blight	S3-O4
10.30-10.45	Babinska Weronika Searching for the correlation between the occurrence of blackleg and soft rot diseases and the composition of soil microbiome in potato fields	S3-O5
10.45-11.15	Coffee break	
Session 4.		
Chair: Cotte-Pattat Nicole		
11.15-11.30	Motyka-Pomagruk Agata Direct and indirect application of cold atmospheric pressure plasmas for eradication and limitation of spread of soft rot <i>Pectobacteriaceae</i>	S4-O1
11.30-11.45	Civita Francesco Understanding the epidemiology of blackleg: how to identify important risk factors with machine learning	S4-O2
11.45-12.00	Gueguen Erwan <i>Dickeya solani</i> D s0432-1 produces an arsenal of secondary metabolites with anti-prokaryotic and anti-eukaryotic activities against a wide range of organisms	S4-O3
12.00-12.15	Moretti Chiaraluce Comparative genomic analysis of the endophytic bacterium <i>Pantoea agglomerans</i> DAPP-PG 734 and its synergistic interaction with <i>Pseudomonas savastanoi</i> pv. <i>savastanoi</i> DAPP-PG 722 in olive knots	S4-O4
12.15-12.30	Cigna Jérémy <i>Pectobacterium punjabense</i> : Incidence in some European collections, diversity and aggressiveness of that recently described species	S4-O5
12.30-13.30	Lunch break	

Session 5.		
Chair: Czajkowski Robert		
13.30-14.20	Posters with coffee	
14.25-14.45	Waleron Małgorzata The international trade of ware vegetables and ornamental plants – an underestimated risk of accelerated spreading of phytopathogenic bacteria in the era of globalization and ongoing climatic changes	S5-KN1
14.45-15.00	Barny Marie-anne Bacterial pathogens dynamic during multi-species infections	S5-O1
15.00-15.15	Zeng Quan Expression of the Type III Secretion System Genes in Epiphytic <i>Erwinia amylovora</i> Cells on Apple Stigmas Benefits Endophytic Infection at the Hypanthium	S5-O2
15.15-15.30	Final round up and thanks	

Poster session	
P1	Sadunishvili Tinatin Fire Blight and <i>Erwinia amylovora</i> in Georgia
P2	Cotte-Pattat Nicole Exploring the diversity within the genus <i>Dickeya</i> , new genus and species
P3	Condemine Guy Identification of new <i>Dickeya dadantii</i> virulence factors secreted by the type 2 secretion system
P4	Condemine Guy Tn-phyto: essential genomes of nine bacterial phytopathogens
P5	Pacini Francesco Preliminary fire blight resistance evaluation of pear genotypes as support for breeding
P6	Che Shu Functional screening of T6SS components highlights a redundancy secreting mechanism between T6SS and T4SS for three of the five VgrGs to affect the virulence and competition in <i>Pectobacterium PccS1</i>
P7	Wang Huan Phylogenetic and biological analysis reveal a role for the Entner-Doudoroff pathway in host adaption of <i>Pectobacterium</i> species
P8	van de Bilt Jeroen Whole genome sequencing-based typing of <i>Pectobacterium</i> and <i>Dickeya</i> species isolated in the Netherlands from 2010-2020
P9	Lojkowska Ewa Responses of <i>Arabidopsis thaliana</i> plants with disturbed coumarin accumulation to <i>Dickeya dadantii</i> and <i>Dickeya solani</i> infection
P10	Makechemu Moffat Soil amendment with crab chitin enhances systemic anti-bacterial resistance via potentiation of pattern-triggered immunity
P11	Gaganidze Dali Genetic diversity of <i>Erwinia amylovora</i> isolates from fire blight diseased apple, pear and quince trees in Georgia
P12	Amashukeli Nanuli Cultural, physiological, and biochemical identification of <i>Erwinia amylovora</i> isolates from the fire blight diseased fruit trees in Georgia
P13	Lelenaite Ieva Enzymatic disruption of <i>Erwinia amylovora</i> biofilms to reduce pathogenicity