

Scientific Programme

Classical and molecular approaches in plant pathogen taxonomy

Warsaw University of Life Sciences
September 10 - 11, 2013
Warsaw, Poland

Tuesday, September 10th, 2013

08:00 - 09:00 **Registration, poster placement & Welcome coffee**

Session I **Current challenges in plant pathogen taxonomy** (Building 37, Aula II)

09:00 - 09:30 **Opening of the Symposium**
Rector of the WULS – SGGW, Poland
Dean of Faculty of Horticulture, Biotechnology and Landscape Architecture
Project Coordinator of the WULS Plant Health

09:30 - 10:00 **Previous and present picture of potato viruses in Poland**
Miroslawa Chrzanowska
(Plant Breeding and Acclimatization Institute – National Research Institute,
Poland)

10:00 - 10:30 **Importance of traditional methods in taxonomy of plant pathogenic fungi**
Joanna Marcinkowska (Warsaw University of Life Sciences, Poland)

10:30 - 11:00 **Detection of *Erwinia amylovora* in necrotic host and non-host tissues using conventional and molecular methods**
Piotr Sobiczewski (Research Institute of Horticulture, Poland)

11:00 - 11:30 Coffee break

11:30 - 12:00 **Presumed phytoplasmal aetiology of witches' broom symptoms in coniferous plants in Europe**
Maria Kamińska (Research Institute of Horticulture, Poland)

12:00 - 12:30 **The role of salicylic acid in *Ny-1* and *Ry-fsto* mediated resistance response to *Potato virus Y* in potato**
Jacek Hennig (Polish Academy of Sciences, Poland)

12:30 - 13:00 **Molecular methods for detection, identification and differentiation of bacteria from the genera *Pectobacterium* and *Dickeya***
Ewa Łojkowska (University of Gdansk, Poland)

13:00 - 13:30 **Molecular diagnostics of plant pathogenic fungi**
Tomasz Kulik (University of Warmia and Mazury in Olsztyn, Poland)

13:30 - 14:00 Discussion and Conclusion

14:00 - 15:00 Lunch

Session II (Building 37, Exhibition hall, 2nd floor)

15:00 - 16:00 **Poster presentations**

Classical and molecular approaches in plant pathogen taxonomy

Warsaw University of Life Sciences
September 10 - 11, 2013
Warsaw, Poland

Wednesday, September 11th, 2013

Session III Topics in taxonomy and identification of Plant Pathogenic Viruses and Bacteria (Building 35, room 26)

09.00 - 09.30 **Recent evolution in the taxonomy of grapevine leafroll- and rugose wood-associated viruses**
Etienne Herrbach (INRA, France)

09.30 - 10.00 **Present taxonomic structure of the family *Potyviridae* and characterization of two new members of the genera *Tritimovirus* and *Poacevirus* isolated from grasses**
Frank Rabenstein (Federal Center for Breeding Research on Cultivated Plants, Germany)

10.00 - 10.30 Coffee break

10.30 - 11.00 **Decision making process and taxonomy of the *Secoviridae***
Karel Petrzik (Academy of Sciences of the Czech Republic, Czech Republic)

11.00 - 11.30 **High throughput sequencing - new frontiers in studying**
Tadeusz Malinowski (Research Institute of Horticulture, Poland)

11.30 - 11.45 **Interactions between eIF4F and the 3'cap-independent translation element of *Barley yellow dwarf virus* (BYDV) RNA**
11:45 - 12:00 **Application of molecular and immunological methods for direct detection of potato viruses in dormant tubers**
Krzysztof Treder (Plant Breeding and Acclimatization Institute – National Research Institute, Poland)

12:00 - 12:30 Coffee break

12.30 - 13:00 **Ion-exchange membrane chromatography-new tool for plant viruses purification**
Agnieszka Przewodowska (Plant Breeding and Acclimatization Institute – National Research Institute, Poland)

13.00 - 13:30 **Detection methods of plant pathogenic bacteria of *Rhizobium/Agrobacterium* complex**
Joanna Puławska (Research Institute of Horticulture, Poland)

13.30 - 14:00 **Modern diagnosis of quarantine pathogen – *Clavibacter michiganensis* ssp. *sepedonicus* based on colloidal gold as sensitive marker**
Włodzimierz Przewodowski (Plant Breeding and Acclimatization Institute - National Research Institute, Poland)

14.00 - 14:15 Discussion & Conclusion

14:15 Lunch

Classical and molecular approaches in plant pathogen taxonomy

Warsaw University of Life Sciences
September 10-11, 2013
Warsaw, Poland

Wednesday, September 11th, 2013

Session IV Plant Pathogenic Fungi (Building 37, room 0/106)

08:30 - 09:00 **Molecular methods for the identification and population genetic analysis of fungi**
János Varga (University of Szeged, Hungary)

09:00 - 09:30 **Recent developments in molecular identification of plant pathogenic fungi**
R. Henrik Nilsson (University of Gothenburg, Sweden)

09:30 - 10:00 **Vegetative compatibility in wilt-disease pathogens: *Fusarium oxysporum* and *Verticillium dahliae***
Maria Rataj-Guranowska (Institute of Plant Protection-National Research Institute, Poland)

10:00 - 10:30 Coffee break

10:30 - 11:00 ***Fusarium* species and mycotoxins occurring in European maize and geographic distribution and multilocus analysis of worldwide *Fusarium subglutinans* and *F. temperatum***
Antonio F. Logrieco (Institute of Sciences of Food Production, CNR, Italy)

11:00 - 11:30 **From taxonomy to field monitoring, a polyphasic approach applied to *Fusarium temperatum***
Jonathan Scaufaire (Catholic University of Louvain, Belgium)

11:30 - 12:00 **Occurrence of *Fusarium* spp. and associated mycotoxins in Polish maize across 2011 – 2012**
Elżbieta Czembor (Plant Breeding and Acclimatization Institute – National Research Institute, Poland)

12:00 - 12:30 Coffee break

12:30 - 13:00 **Does molecular perspective change position of plant pathogens in mucoralean systematics?**
Marta Wrzosek (University of Warsaw, Poland)

13:00 - 13:30 **Application of classical and molecular methods to differentiate populations of *Phomopsis* spp. isolated from fruit plants in Poland**
Barbara Kowalik (University of Life Sciences in Lublin, Poland)

13:30 - 14:00 **Gall formation in clubroot-infected arabis – the developmental perspective**
Robert Malinowski (Polish Academy of Sciences, Poland)

14:00 - 14:15 Discussion & Conclusion

14:15 Lunch

Real-Time PCR technique for the detection of the plant viruses (workshop)

Warsaw University of Life Sciences
September 12, 2013
Warsaw, Poland

Thursday, September 12th, 2013, Building 37, room P/23

08:45 - 09:00 **Opening of the Workshop**

09:00 - 10:00 **Lecture - part 1.1**
Introduction to Real-Time PCR
Tadeusz Malinowski (Research Institute of Horticulture, Poland)

10:00 - 10:30 Coffee break

10:30 - 11:30 **Lecture – part 1.2**
The principle and most frequently used formats of detection
Tadeusz Malinowski

11:30 - 12:15 **Practical course – part 1**
Performing of Real-Time PCR
Anna Kozłowska-Makulska (Warsaw University of Life Sciences, Poland)

12:15 - 13:15 **Lecture – part 2**
Application of Real-Time PCR for detection and identification of plant viruses
Tadeusz Malinowski

13:15 - 14:15 Lunch

14:15 - 15:00 **Practical course – part 2**
Analysis of Real-Time PCR results
Anna Kozłowska-Makulska

15:00 - 15:30 **Lecture – part 3**
Criteria for selection of Real-Time PCR machine suitable for your specific needs
Tadeusz Malinowski

15:30 - 15:45 Discussion & Conclusion
