

International Advances in Plant Virology

Organised in collaboration with the
Dutch Circle of Plant Virologists

to be held at Papendal, Hotel en Congrescentrum, Arnhem, the Netherlands

on 5-7 September 2010

PROGRAMME

SUNDAY 5 SEPTEMBER

17.00 TO 18.00 REGISTRATION AND WELCOME RECEPTION

17.30 - 22.00 POSTER SESSION

Invited Speaker

18.15 **Plant cell extract - a potent tool to study tomato bushy stunt virus replication in vitro**

SVEN-ERIK BEHRENS (Institute of Biochemistry and Biotechnology, Martin-Luther-University, Halle, GERMANY)

19.00-21.00 BUFFET DINNER (Grand Cafe)

MONDAY 6 SEPTEMBER

8.30 REGISTRATION

Invited Speaker

9.00 **The fight for translation: use of initiation factors by plant RNA viruses**

CAROLE CARANTA (INRA, Genetics and Breeding of Fruits and Vegetables, Montfavet, FRANCE)

9.50 **The role of protein domains in subcellular localization of cauliflower mosaic virus protein P6 and the suppression of SA-Dependent signaling and cell death responses**

JOEL J MILNER (Plant Science Group, PBL, University of Glasgow, UK)

10.10 **Nucleocytoplasmic shuttling of two proteins encoded by grapevine fanleaf nepovirus (GFLV)**

CORRINE SCHMITT-KEICHINGER (CNRS Universite de Strasbourg, Strasbourg, FRANCE)

10.30 COFFEE

ASSOCIATION OF APPLIED BIOLOGISTS

President: Michael Jeger, PhD, FIBiol, FIMA, FLS



Organised in collaboration with the
Dutch Circle of Plant Virologists

A 3 day conference

at Papendal, Hotel en Congrescentrum,
Arnhem, the Netherlands

on 5-7 September 2010

PROGRAMME &
BOOKING FORM

International Advances
in Plant Virology

Photograph reproduced by kind permission of Wageningen University



BIOREBA
Your Partner in Agro-Diagnostics

11.00 **Symptom determinants on the arabis mosaic nepovirus genomic RNA2**
THIERRY WETZEL (RLP Agrosience, Alplanta, Neustadt, GERMANY)

Student Platform Presentations

11.20 **Development of a PepMV-based expression vector**
RAQUEL NAVARRO SEMPERE (CEBAS-CSIC, Espinardo, Murcia, SPAIN)

11.35 **The incidence and genetic diversity of *turnip yellows virus* (TuYV) in winter oilseed rape (*brassica napus*) in England.**
ELVIS ASARE-BEDIAKO (Warwick HRI, University of Warwick, Wellesbourne, Warwick, UK)

11.50 **Exploiting P19, a virus-encoded suppressor of silencing, to enhance protein expression in transgenic plants**
POOJA SAXENA (John Innes Centre, Norwich, UK)

12.05 **Characterization of transgenic ZYMV resistance based on RNA silencing**
DIANA LEIBMAN (ARO Volcani Center, Bet-Dagan, ISRAEL)

12.20 LUNCH

Invited Speaker

13.30 **Mechanisms of resistance to viruses in melon**
MIGUEL ARANDA (CEBAS, Universitario de Espinardo, Espinardo, SPAIN)

14.20 **The genus *Torradovirus*, a new plant virus genus now harbouring three species all infecting tomato**
MARTIN VERBEEK (Plant Research International, part of Wageningen UR, Wageningen, the NETHERLANDS)

14.40 **Do pospiviroid infections in solanaceous ornamentals pose a risk for potato and tomato?**
ANNELIEN ROENHORST (Plant Protection Service, Wageningen, the NETHERLANDS)

15.00 TEA

15.20 **Prevalence of cocksfoot steak virus in wild grass and the potential for effects on the allergenic potency of pollen**
HUI WANG (NERC/Centre for Ecology & Hydrology, Wallingford, Oxfordshire UK)

15.40 **A vitivirus complex infecting actinidia**
ARNAUD BLOUIN (Plant and Food Research, Auckland, NEW ZEALAND)

16.00 End of Session

16.30 Visit to Zoo

18.30 Welcome at the Jungle Juice Bar

19.00 Cocktails at the Ocean

19.30 Dinner at The Bush Restaurants

21.00 Dessert at The Bush Terrace

21.30 Return to Papendal

TUESDAY 7 SEPTEMBER

8.00 REGISTRATION

8.30 **Tomato spotted wilt virus and the interplay with the endomembrane system**
RICHARD KORMELINK (Laboratory of Virology, Wageningen, the NETHERLANDS)

8.50 **Arabis mosaic virus - infection risks from the soilborne vector *Xiphinema* and weeds**
MAARTEN DE KOCK (Wageningen UR - Applied Plant Research, Lisse, the NETHERLANDS)

9.10 **Molecular interplay between a plant virus and the plant host cell that prepares subsequent vector-transmission**
MARTIN DRUCKER (Equipe Montpellier, FRANCE)

9.30 **Physical interaction of P25 pathogenicity factor of *beet necrotic yellow vein virus* and an sugar beet F-box protein involved in the induction of a hypersensitive response**
HEIKE THIEL (Institute of Sugar Beet Research, Department of Phytopathology, Göttingen, GERMANY)

9.50 **The effects of virus-encoded silencing suppressor proteins on anti-insect defence**
JACK WESTWOOD (Department of Plant Sciences, Cambridge University, Cambridge, UK)

10.10 COFFEE

10.40 **Possible plant-based recombinant oral vaccines against human diseases**
PASQUALE PIAZZOLLA (Department of Biology Plant Protection and Agrobiotechnology, Basilicata University, Potenza, ITALY)

Student Platform Presentations

11.00 **Molecular analysis of Apple stem grooving virus**
ANNERIE LIEBENBERG (RLP Agrosience, AlPlanta - Institute for Plant Research, Neustadt, GERMANY)

11.15 **Does the tomato spotted wilt virus S RNA-encoded hairpin structure play a role in translation?**
CHRISTINA GEERTS-DIMITRIADOU (University of Wageningen, the NETHERLANDS)

11.30 **Cassava brown streak virus diagnosis on infected cassava plants**
ABARSHI MUAWIYA MUSA (Natural Resources Institute, University of Greenwich, Kent, UK)

11.45 **Virus-host interaction studies reveal the occurrence of virulent and milder forms of cassava brown streak virus**
MOHAMMED IBRAHIM UMAR (Natural Resources Institute, University of Greenwich, Kent, UK)

12.00 LUNCH

13.00 STUDENT PRIZE PRESENTATION

Invited Speaker

13.15 **The cell nucleus and plant-virus systemic infection**
MICHAEL TALIANSKY (Scottish Crop Research Institute, Dundee, UK)

14.00 **xMAP multiplex-detection of plant pathogens**
RENE VAN DER VLUGT (Plant Research International, part of Wageningen UR, Wageningen, the NETHERLANDS)

14.20 **Biosafety and biosecurity in Europe**
BENEDICTUS J M VERDUIN (Wageningen University and Research Centre WB, Wageningen, the NETHERLANDS)

15.00 END OF CONFERENCE

15.00-17.00 TEA

Posters

Incidence and control of cucurbit viruses in NWFP Pakistan
ASAD ALI (Utsunomiya University, JAPAN)

Investigations into molecular interactions between Potato virus Y and *Myzus persicae*
AHMAD AL-MRABEH (Scottish Crop Research Institute, Invergowrie, Dundee, UK)

Incidence of viruses infecting field-grown tomato and pepper crops in Ogun South-West Nigeria
EMILY AYO-JOHN (Department of Crop Protection, University of Agriculture, Abeokuta, NIGERIA)

A survey on the occurrence of tospovirus species in Iran
NASER BEIKZADEH (Faculty of Agriculture, Ferdowsi University of Mashhad, Mashhad, IRAN)

Analysis of the resistance breaking ability of different beet necrotic yellow vein virus isolates loaded to a single *Polymyxa betae* population in soil
KATHRIN BORNEMANN (Institute of Sugar Beet Research, Göttingen, GERMANY)

Characterization of nepoviruses by an integrated approach
MARLEEN BOTERMANS (Plant Protection Service, Wageningen, the NETHERLANDS)

Viral diseases in zucchini (*Cucurbita pepo*) in Flanders: occurrence and identification
KRIS W A DE JONGHE (Institute for Agricultural and Fisheries Research (ILVO), Merelbeke, BELGIUM)

The effects of infection with cucumber mosaic virus wild-type or a 2b deletion mutant on the transcriptomes of Arabidopsis and tobacco
ZHIYOU DU (Department of Plant Sciences, Cambridge University, Cambridge, UK)

Identification of Hawaiian genotypes of sugarcane yellow leaf virus and their genetic diversity
ABDELALEIM ELSAYED (Plant Physiology Department, Bayreuth University, Bayreuth, GERMANY)

Similarities in the cap-snatching mechanism of tomato spotted wilt virus and influenza virus during genome transcription
CHRISTINA GEERTS-DIMITRIADOU (University of Wageningen, Droevendaalsesteeg Wageningen, the NETHERLANDS)

Suppressor of RNA silencing encoded by the Grapevine leafroll-associated virus 3 (GLRaV-3)
PAULO GOUVEIA (BioFIG - Center for Biodiversity, Universidade do Algarve, Faro, PORTUGAL)

The CMV 2b protein in orchestrating the plant/s pull/push effect on aphid vectors
SIMON GROEN (Department of Plant Sciences, Cambridge University, Cambridge, UK)

Population bottlenecks during the colonisation of different host species by different plant viruses with overlapping host ranges
SERAFIN GUTIERREZ (UMR-BGPI, Campus International de Baillarguet Montpellier, FRANCE)

RNAi-mediated transgenic tospovirus resistance broken by intraspecies silencing suppressor protein complementation
AFSHIN HASSANI-MEHRABAN (Laboratory of Virology Wageningen University, Wageningen, the NETHERLANDS)

Analysis of tospovirus-induced RNAi and counterdefense by the NSs protein
MARCIO HEDIL (Wageningen University, Laboratory of Virology, Droevendaalsesteeg Wageningen, the NETHERLANDS)

Silencing RNA-dependent RNA polymerase 1 (RDR1) in potato plants, in preparation for studying the role of RDR1 in basal resistance against viruses
LYDIA HUNTER (Department of Plant Sciences, Cambridge University, Cambridge, UK)

Virus-host interactions in cassava brown streak disease pathosystem
MOHAMMED IBRAHIM UMAR (Natural Resources Institute, University of Greenwich, Kent, UK)

Re-localization of fibrillarin from the nucleolus to cytoplasm in the presence of hordeivirus TGB1 proteins
NATALIA KALININA (A N Belozersky Institute of Physico-Chemical Biology, Moscow State University, RUSSIA)

Chickpea chlorotic stunt (cpcsv) in West Asia and North African (WANA)
SAFAA KUMARI (ICARDA, Aleppo, SYRIA)

The contributions of alternative oxidase and RNA-dependent RNA polymerase 6 to basal and induced resistance to viruses
ZHENG LI (Department of Plant Sciences, Cambridge University, Cambridge, UK)

The importance of the 3' UTR in controlling the translation efficiency of Cowpea mosaic virus (CPMV) RNA-2-based constructs

GEORGE P LOMONOSSOFF (John Innes Centre, Norwich, Norfolk, UK)

Towards durable tospovirus resistance in *capsicum annuum*: indentifying the avirulence candidate gene in TSWV against the Tsw resistance gene

DRYAS DE RONDE (Laboratory of Virology, Wageningen University, Wageningen, the NETHERLANDS)

Targeting SiRNA hotspot confers plant resistance to infection by the *African cassava mosaic virus*

ATEF MOHAMED (Warwick HRI, University of Warwick, Wellesbourne, Warwick, UK)

Universal and virus-specific primers to detect distinct species of cassava brown streak viruses

ABARSHI MUAWIYA MUSA (Natural Resources Institute, University of Greenwich, Kent, UK)

Understanding the interaction between the Turnip mosaic virus VPg protein and brassica eIF4E and eIF(iso)4E proteins and deploying virus resistance in brassicas.

CHARLOTTE NELLIST (Warwick HRI, University of Warwick, Wellesbourne, Warwick, UK)

Phylogenetic relationships of a *sweet potato leaf curl virus* isolate from Uganda

BETTINA OTTO (Natural Resources Institute, University of Greenwich, Kent, UK)

Towards the identification of new host factors required for plant susceptibility to potyviruses: novel routes to resistance

LAURENCE OUIBRAHIM (INRA Unite de Genetique et d'Amelioration des Fruits et Legumes, Montfavet Cedex, FRANCE)

Are two viruses better than one? Cocksfoot streak potyvirus and cereal yellow dwarf luteovirus infection in Wild Cocksfoot (*Dactylis glomerata*) in Oxfordshire

DENISE PALLETT (CEH, Wallingford, Oxfordshire, UK)

Advances on *in vitro* antiviral chemotherapy

ALESSANDRA PANATTONI (Tree Science Entomology and Plant Pathology, University of Pisa, ITALY)

Molecular detection of rhabdoviruses in new hosts

KAREL PETRZIK (Biology Centre AS CR IPMB, Ceske budejovice, CZECH REPUBLIC)

Molecular characterization of *Nerine* latent carlavirus

KHANH PHAM (Applied Plant Research, Lisse, the NETHERLANDS)

Detection and molecular characterisation of potyviruses infecting potato and vegetables in Iraq

NAWRES SADEQ (University of Greenwich, Greenwich, London, UK)

Discovery of a diverse group of helper begomoviruses and satellite DNAs infecting okra in Cameroon

NAEEM SATTAR (Department of Plant Biology and Forest Genetics, Uppsala Biocenter, SWEDEN)

Multiplex RT-PCR for detection of *bean common mosaic* and *bean common mosaic necrotic viruses*

NOOH SHAHRAEEN (Iranian Research Institute of Plant Protection-IRIPP, Tehran, IRAN)

Deep-sequencing analysis - a new tool for studying recombination patterns in *Potato virus Y* and *potato virus M*

ROSE SOUZA RICHARDS (Plant and Crop Sciences Division, University of Nottingham, Loughborough, UK)

The Production of Complex Veterinary Vaccines Using the CPMV Plant Expression System

EVA C THUENEMANN (John Innes Centre, Norwich, Norfolk, UK)

The role of cucumber mosaic virus 2b protein in subverting plant defensive signalling pathways

TRISNA TUNGADI (Department of Plant Sciences, Cambridge University, Cambridge, UK)

Pepino mosaic virus: What do we know so far and how to proceed

RENE VAN DER VLUGT (Plant Research International, part of Wageningen UR, Wageningen, the NETHERLANDS)

Determination of aphid transmission efficiencies for N, NTN and Wilga strains of *potato virus Y*

MARTIN VERBEEK (Plant Research International, part of Wageningen UR, Wageningen, the NETHERLANDS)

Exploiting eIF(iso)4E-based broad-spectrum resistance to Turnip mosaic virus in *Brassica rapa*

JOHN A WALSH (Warwick HRI, University of Warwick, Wellesbourne, Warwick, UK)

QTL for the tomato lethal disease induced by *Cucumber mosaic virus* and D satellite RNA

PING ZHU (Plant Biology Division, The S R Noble Foundation, Ardmore, USA)

