Tentative Programme

5th joint meeting of the DPG working group „Viruskrankheiten der Pflanzen“ and the “Nederlandse Kring voor Plantevirologie”,.8th to 9th April Hamburg

Wednesday 8. April 2009	
8:00 – 9:00	**Registration, Poster up**
9:00 – 9:20	**Introductory remarks, Stephan Winter & Günter Adam**
9:20 – 12:00	**Virus and viroid characterization** Moderation: R. van der Vlugt
9:20 – 09:40	**Biosafety in Europe** B. J.M. Verduin Wageningen University and Research Centre, Binnenhaven 11, 6709 PD Wageningen, The Netherlands
9:40 – 10:00	**Nucleotide sequence of an aphid-transmissible potexvirus from parsley and construction of an infectious full-length cDNA clone** W. Menzel[1], E. Maiss[1], K. Richert-Poeggeler[2] and H.J. Vetten[2] [1]Leibniz University of Hannover, Institute of Plant Diseases and Plant, Hannover; [2]Julius Kuehn Institute, Institute of Epidemiology and Pathogen Diagnostics, Braunschweig
10:00 – 10:20	**Cloning and phylogenetic analyses of putative plant cryptic viruses** T. Lesker[1], T. Myrach[1], W. Menzel[1], H.-J. Vetten[2], E. Maiss[1] [1]Leibniz Universität Hannover, Inst. Pflanzenkrankheiten und Pflanzenschutz, Herrenhäuser Str. 2, 30419 Hannover, Germany. [2]Julius-Kühn Institut, Bundesforschungsinstitut für Kulturpflanzenforschung - Institut für Epidemiologie und Pathogendiagnostik, Messeweg 11/12, 38104 Braunschweig, Germany
10:20 – 10:40	**Detection of defective forms of Barley dwarf virus** J. Schubert[1], A. Habekuss[2], Y. Quian[3] [1]JKI, Institute of Biosafety of Genetically Modified Transgenic Plants and [2]Institute of Resistance Research and Stress Tolerance, [3]Sheijiang University China, Institute of Biotechnology
10:40 – 11:00	**Coffee break**
	Moderation: S. Winter
11:00 – 11:20	**A distinct tospovirus species infecting *Alstroemeria* sp. in Colombia** A. Hassani-Mehraban[1], M. Botermans[2], K. Verhoeven[2], E. Meekes[3] , J. Saaijer[1], R. Goldbach[1] and R. Kormelink[1] [1]Laboratory of Virology, Wageningen University, 6709 PD, Wageningen, The Netherlands [2]Plant Protection Service, P.O. Box 9102, 6700 HC Wageningen, The Netherlands [3]Naktuinbouw, P.O. Box 40, 2370 AA Roelofarendsveen, The Netherlands

11:20 – 11:40	***Pepper chat fruit viroid*: biological and molecular characterization of a new viroid species from *Capsicum annuum*** J.Th.J. Verhoeven[1], C.C.C. Jansen[1], J.W. Roenhorst[1], M. de la Peña[2] and R. Flores[2] [1] Plant Protection Service, Wageningen, The Netherlands [2]Instituto de Biología Moleculary Celular de Plantas (UPV-CSIC), Universidad Politécnica de Valencia, Valencia, Spain
11:40 – 12:00	**Cassava brown streak virus: A new Ipomovirus with unusual genome features** S. Winter DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen, Abteilung Pflanzenviren, Inhoffen Straße 7b, 38124, Germany.
12:00 – 13:10	**Lunch**
13:10 – 14:30	**Occurrence of viruses and viroids** Moderation: H.- J. Vetten
13:10 – 13:30	**Transmission of Tulip breaking virus by aphids in tulip: invisible risks require adapted risk monitoring and crop protection strategies.** M. de Kock[1], I. Stijger[1], M. Lemmers[1], K. Pham[1], M. van Dam[1] [1]Wageningen UR – Applied Plant Research, The Netherlands
13:30 – 13:50	**Epidemiological evidence that vegetatively-propagated solanaceous plant species act as sources of *Potato spindle tuber viroid*-inoculum for tomato** J.Th.J. Verhoeven, M. Botermans, C.C.C. Jansen & J.W. Roenhorst* *Plant Protection Service, PO Box 9102, 6700 HC Wageningen, the Netherlands
13:50 – 14:10	**Pepino mosaic virus: epidemiology, economic impact and pest risk analysis (PEPEIRA)** R. A.A. van der Vlugt[1] [1]Plant Research International, P.O. Box 16, NL-6700 AA Wageningen, The Netherlands
14:10 – 14:30	**Occurrence of *Iris yellow spot virus* in the Dutch onion crops and confirmation of transmission by *Thrips tabaci.*** [1]K. Hoedjes, [2]K.Verhoeven, [1]R. Goldbach and [1]D. Peters [1]Laboratory of Virology, Wageningen University, Binnenhaven 11, 6709 PD Wageningen [2]Plant Protection Service, Postbus 9102, 6700 HC Wageningen, The Netherlands
14:30 – 16:30	**Poster session**

16:30 – 17:10	**Virus technologies** Moderation: G. Adam
16:30 – 16:50	**Tobacco mosaic virus surface mutants for nanotechnology applications** F.Geiger[1], A.Müller[1], H. Jeske[1], C. Wege[1], J. Spatz[2] [1]Universität Stuttgart, Institute of Biology, Department of Molecular Biology and Plant Virology, Pfaffenwaldring 57, 70569 Stuttgart, Germany [2]Max-Planck-Institute for Metals Research, Department of New Materials and Biosystems, Heisenbergstraße 3, 70569 Stuttgart, Germany
16:50 – 17:10	**Engineered Tobacco mosaic virus mutants produced in planta exhibit distinct physical characteristics and result in different types of metallization products** A. Kadri[1], E. Maiß[2], N. Amsharov[3], S. Balci[3], A.M. Bittner[3], K. Kern[3], H. Jeske[1], C.Wege[1] [1]Universität Stuttgart, Institute of Biology, Department of Plant Molecular Biology and Plant Virology, Pfaffenwaldring 57, 70550 Stuttgart, Germany [2]Leibniz Universität Hannover, Institut für Pflanzenkrankheiten und Pflanzenschutz, Herrenhäuser Straße 2, 30419 Hannover, Germany [3]Max-Planck-Institut für Festkörperforschung, Heisenbergstraße 1, 70569 Stuttgart, Germany
17:10 – 18:10	**Resistance** Moderation: T. Kühne
17:10 – 17:30	**DI DNA mediated resistance against Beet curly top virus (BCTV) in Beta vulgaris** J. Horn[1], B. Schäfer[1], P. Wyant[1], B. Krenz[1], H. Jeske[1] [1]Universität Stuttgart, Biologisches Institut, Abteilung Molekularbiologie und Virologie der Pflanzen, Pfaffenwaldring 57, 70550 Stuttgart, Deutschland
17:30 – 17:50	**RNAi-mediated resistance to Potato spindle tuber viroid in transgenic tomato expressing the viroid hairpin DNA construct** G. Krczal[1], N. Schwind[1], M. Zwiebel[1], A. Itaya[2], B. Ding[3], M.-B. Wang[4], M. Wassenegger[1] [1]RLP Agroscience GmbH, AlPlanta-Institute for Plant Research, Breitenweg 71, 67435 Neustadt Germany [2]Department of Plant Cellular and Molecular Biology and Plant Biotechnology Center, Ohio State University, Columbus, Ohio, USA [3]Department of Plant Cellular and Molecular Biology and Plant Biotechnology Center, Ohio State University, Columbus, Ohio, USA [4]CSIRO Division of Plant Industry, PO Box 1600, Canberra, ACT 2601, Australia

17:50 – 18:10	**RNAi-mediated transgenic tospovirus resistance broken by intraspecies NSS complementation** A. Hassani-Mehraban[1], A. B. Brenkman[2], N. J. F. van den Broek[2], R. Goldbach[1] and R. Kormelink[1] [1]Laboratory of Virology, Wageningen University, Binnenhaven 11, 6709 PD Wageningen, The Netherlands; 2Department of Metabolic and Endocrine Diseases and Netherlands Metabolomics Centre, University Medical Centre, 3508 AB, Utrecht, The Netherlands
18:10 – 18:40	**Societies business hour**
19:30 -	**Dinner**

Thursday 9. April 2009	
8:30 – 12: 15	**Gene function** Moderation: H. Jeske
8:30 – 8:50	**Protein-protein interaction screen of a sugar beet cDNA library with the beet necrotic yellow vein virus pathogenicity factor P25 identifies proteins possibly involved in virus pathogenicity and plant resistance response** H. Thiel[1] and M. Varrelmann[1] [1] Institute of Sugar Beet Research, Department of Phytopathology, Holtenser Landstr. 77, D-37079 Göttingen, Germany
8:50 – 9:10	**The potato virus X replicase linker region between methyltransferase and helicase domain is involved in RNA recombination** H.-K. Draghici[1] and M. Varrelmann[1,2] [1] Department of Crop Sciences, Section Plant Virology, University of Göttingen, Grisebachstrasse 6, D-37077 Göttingen, Germany [2] Institute of Sugar Beet Research, Department of Phytopathology, Holtenser Landstr. 77, D-37079 Göttingen, Germany
9:10 – 9:30	**A single C/U nucleotide substitution changing alanine to valine in the *Beet necrotic yellow vein virus* P25 protein promotes increased virus accumulation in roots of mechanically inoculated, partially resistant sugar beet seedlings** R. Koenig[1], S. Loss[2], J. Specht[2], M. Varrelmann[3], P. Lüddecke[2] and G. Deml[2] [1] c/o JKI Braunschweig, [2] JKI Braunschweig, [3] Institut für Zuckerrübenforschung, Göttingen
9:30 – 9:50	**Similarities in the capsnatching mechanism of Tomato spotted wilt virus and Influenzavirus during genome transcription** C. Geerts-Dimitriadou[1], R. Goldbach[1], and R. Kormelink[1] [1]Laboratory of Virology, Wageningen University, Binnenhaven 11, 6709 PD Wageningen, Netherlands

9:50 – 10:10	**Coffee break**
	Moderation: R. Kormelink
10:10 – 10:30	**A plastidal heat shock cognate 70 kDa protein interacts with *Abutilon mosaic virus* movement protein and affects viral DNA accumulation** B. Krenz[1], V. Windeisen[1, †], C. Wege[1], H. Jeske[1], Tatjana Kleinow[1] [1]Institute of Biology, Department of Molecular Biology and Plant Virology, Universität Stuttgart, Pfaffenwaldring 57, 70550 Stuttgart, Germany; [†] Present address: Biochemistry Center (BZH), Heidelberg University, Im Neuenheimer Feld 328, 69120 Heidelberg, Germany
10:30 – 10:50	**Plant geminivirus Rep protein interferes with the control of fission yeast cell cycle** K. Kittelmann[1], P. Rau[1], B. Gronenborn[2], H. Jeske[1] [1]Universität Stuttgart, Institute of Biology, Department of Molecular Biology and Plant Virology, Pfaffenwaldring 57, 70550 Stuttgart, Germany [2]Institut des Sciences du Végétal, CNRS, 91198 Gif-sur-Yvette, France
10:50 – 11:10	**Geminiviral minichromosome dynamics** T. Paprotka[1], H. Jeske[1] [1]Universität Stuttgart, Molekularbiologie und Virologie der Pflanzen, Pfaffenwaldring 57, 70550 Stuttgart
11:10 – 11:30	**Molecular characterization of a putative PSTVd binding protein, the CDC5 homolog of tomato (SlCDC5)** C.Timmermann[1], R. Werner[2], N. Bolle[3], H.-P. Mühlbach[1] [1]Universität Hamburg, Biozentrum Klein Flottbek, Ohnhorststrasse 18, 22609 Hamburg [2]Universität Lübeck, Faculty of Medicine, Ratzeburger Allee 160, 23538 Lübeck [3]University of Kiel, Institute of Botany and Botanical Garden, Ohlshausenstr. 40, 24098 Kiel
11:30 – 11:50	**Tenuiviral RNAi suppressor terminates a longstanding enigma: Are human viruses targets of RNAi?** E. Schnettler[1], W. deVries[2], R. Kormelink[1], B. Berkhout[2] and R. Goldbach[1] [1] Laboratory of Virology, Wageningen University, Wageningen, The Netherlands [2]Laboratory of Experimental Virology, Academic Medical Center, University of Amsterdam, Amsterdam, The Netherlands
11:50 – 12:15	**Wrap up of the meeting**

Posters

Analysis of the hosta virus X (*Potexvirus, Flexividiade*) distribution in infected plants using transmission electron microscopy

K. Richert-Poeggeler[1], C. Maass[1], S. Schuhmann[1], J. Engelmann[1], D.-E. Lesemann[1], K. Kobayashi[2],B. Lockhart[3]
[1]Julius Kühn-Institut, Inst. for Epidemiology and Pathogen Diagnostics, D-38104 Braunschweig, Germany
[2]Iwate Biotechnology Research Center, Dep. of Life Science, Group of Plant Pathology, Kitakami 024-0003, Iwate, Japan [3]Univ. of Minnesota, Dep. of Plant Pathology, St. Paul 55108-6030, MN, USA

Localisation and quantification of all four RNAs of European mountain ash ringspot-associated virus (EMARAV) in mountain ash (Sorbus aucuparia L.)

N. Schlatermund[1], N. Mielke[1], H.-P. Mühlbach[1]
[1]University of Hamburg, Biocentre Klein Flottbek and Botanical Garden, Ohnhorststr. 18, 22609 Hamburg, Germany

Complete nucleotide sequence of Celery latent virus

I. Eikenberg[1], W. Menzel[1], H.-J. Vetten[2], and E. Maiss[1]
[1] Leibniz Universität Hannover, Inst. Pflanzenkrankheiten und Pflanzenschutz, Herrenhäuser Str. 2, 30419 Hannover, Germany. [2] Julius-Kühn Institut, Bundesforschungsinstitut für Kulturpflanzen - Institut für Epidemiologie und Pathogendiagnostik, Messeweg 11/12, 38104 Braunschweig, Germany

Optimization of a mRFP-based bimolecular fluorescence complementation system for investigation of Plum pox virus protein interactions in Nicotiana benthamiana

E. Scholz and E. Maiss,
Leibniz Universität Hannover, Inst. Pflanzenkrankheiten und Pflanzenschutz, Herrenhäuser Str. 2, 30419 Hannover, Germany,

First steps for detection of *Barley yellow dwarf* in aphids

N. Drechsler[1*], Th. Thieme[1], A. Habekuß[2], J. Schubert[3]
[1]BTL Sagerheide and [2]JKI, Institute of Resistance Research and Stress Tolerance and [3]Institute of Biosafety of Genetically Modified Transgenic Plants

Can dried material from a herbarium serve as source for plant virus RT-PCR and ELISA?

S. Preuschhof, C. Heinze, P. Willingmann and G. Adam
Biocenter Klein Flottbek; University of Hamburg

Interceptions of pospiviroids in solanaceous crops in the Netherlands

A.W. Werkman, J.Th.J. Verhoeven, and J.W. Roenhorst
Plant Protection Service, P.O. Box 9102, 6700 HC Wageningen, The Netherlands

Hairpin structure within the *Tomato yellow ring tospovirus* S RNA segment: a potential target for RNA silencing

A. Hassani-Mehraban, D. Lohuis, H. Hemmes, R. Goldbach, and R. Kormelink
Laboratory of Virology, Wageningen University, Binnenhaven 11, 6709 PD Wageningen, the Netherlands

Some of the variability of Beet necrotic yellow vein virus P25 pathogenicity factor previously allocated to geographically distinct isolates can already be retrieved in single representative A- and B-type soils

K. Bornemann[1] and M. Varrelmann[1]
[1] Institute of Sugar Beet Research, Department of Phytopathology, Holtenser Landstr. 77, D-37079 Göttingen, Germany

Cherry leaf roll virus (CLRV) - genome organisation of the RNA1

S. von Bargen[1] , J. Langer[1], A. Rumbou[1], J. Gentkow[2], und C. Büttner[1]
[1]Institute of Horticultural Sciences, Humboldt-Universität zu Berlin, Lentzeallee 55/57, D-14195 Berlin, Germany; [2]present address: Leibniz-Institute of Plant Biochemistry, Weinberg 3, D-06120 Halle, Germany

Occurrence of EMARAV and CLRV in tree species native to Finland

N. Arndt[1], S. von Bargen[1], E. Grubits[1], R. Jalkanen[2], C. Büttner[1]
[1]Institute of Horticultural Sciences, Humboldt-Universität zu Berlin, Lentzeallee 55/57, D-14195 Berlin, Germany; [2]Metla, Finnish Forest Reseach Institute, Rovaniemi, Finland

Developing of diagnostic multiplex RT-PCR assays for the detection of soil-borne mosaic viruses and their natural vector *Polymyxa graminis*

V. W. Fomitcheva[1], U. Kastirr[1], A. Habekuss[2] and T. Kuehne[1]
Federal Research Centre for Cultivated Plants – Julius Kühn-Institut, [1]Institute for Epidemiology and Pathogen Diagnostic, [2]Institute for Resistance Research and Stress Tolerance

Sequencing of apple stem pitting isolates and generation of an infectious full- length cDNA clone

A. Arntjen[1] and W. Jelkmann[1]
[1]Julius Kühn– Institut, Institut für Pflanzenschutz in Obst- und Weinbau, Dossenheim

Antiviral RNAi counter defence by ambisense RNA plant viruses

E. Schnettler[1], H. Hemmes[1], R. Huisman[1], R.Kormelink[1] and R. Goldbach[1]
[1] Laboratory of Virology, Wageningen University, Wageningen, The Netherlands

Does the TSWV S RNA-encoded hairpin structure play a role in translation?

C. Geerts-Dimitriadou[1], R. Goldbach[1], and R. Kormelink[1]
[1]Laboratory of Virology, Wageningen University, Binnenhaven 11, 6709 PD Wageningen, Netherlands

A generic (RT)-PCR test for caulimoviruses

A.M. Dullemans & R.A.A. van der Vlugt
WUR-Plant Research International BV, P.O. Box 16, 6700 AA Wageningen, The Netherlands

Abutilon mosaic virus as a stable and attenuated vector for virus-induced gene silencing and limited phloem-specific protein expression

B. Krenz, C. Wege, and H. Jeske
University of Stuttgart, Department of Molecular Biology and Plant Virology, Pfaffenwaldring 57, D-70550 Stuttgart, Germany

Revision of taxonomy of the virus causing Augusta disease in tulips in The Netherlands.

K. Pham[1], M. Lemmers[1], J. van Doorn[1] and T. Derks[1].
[1]Wageningen UR – Applied Plant Research, The Netherlands

Towards nanoscaled Tobacco mosaic virus-based carrier-rods exposing biological functionalities

S. Mangold[1], D. Brodbeck[1], A. Müller[1], F. Geiger[1], A. Kadri[1], R. Kontermann[2], H. Jeske[1], C. Wege[1]
[1]Universität Stuttgart, Institute of Biology, Department of Molecular Biology and Plant Virology, Pfaffenwaldring 57, 70569 Stuttgart, Germany. [2]Universität Stuttgart, Institute of Cell Biology and Immunology, Allmandring 31, 70569 Stuttgart, Germany

Barley Yellow Dwarf Virus detection and assessment of virus spread in susceptible and resistant barley plants

V. Spamer[1], C. Obermeier[1], W. Friedt[1]
[1]Justus-Liebig-University, Department of Plant Breeding, IFZ Research Center for Biosystems, Land Use and Nutrition, Heinrich-Buff-Ring 26-32, 35392 Giessen, Germany

Changes in Barley Proteome after Infection with BYDV

K. Steckbauer[1], W. Friedt[2], A. van Bel[1]
[1]Institute of General Botany / Plant Cell Biology Research Group, Senckenbergstr. 17, 35390 Giessen, Germany
[2]Institute of Agronomy and Plant Breeding, Heinrich-Buff-Ring 26-32, 35392 Giessen, Germany

Applying of multiplex RT-PCR analysis for the detection of soil-borne viruses in different cereals in the early stages of disease development

U. Kastirr[1], V. Fomitcheva[1], V. Papke[1], B. Schmiedchen[2]
[1]JKI, IEP, Erwin-Baur-Straße 27,06484 Quedlinburg, Germany. [2]KWS Lochow GmbH, Zuchtstation Petkus, Merzdorfer Straße 38,15837 Baruth/Mark, Germany

Developing of diagnostic multiplex RT-PCR assays for the detection of soil-borne mosaic viruses and their natural vector Polymyxa graminis

V. W. Fomitcheva[1], U. Kastirr[1], A. Habekuss[2], T. Kühne[1]
[1]JKI/IEP,Erwin-Baur-Straße 27,06484 Quedlinburg, Germany. [2]JKI/IRS,Erwin-Baur-Straße 27,06484 Quedlinburg, Germany

Phenotypic aberrations caused by Cassava geminiviral RNA silencing suppressors in transgenic *N. benthamiana*.

S. Naseem, and S. Winter
DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen, Abteilung Pflanzenviren, Inhoffenstraße 7b, 38124, Germany.

Characterisation of the eukaryotic translation initiation factor eIF4E from Cassava genotypes with resistance and susceptibility to Cassava brown streak virus

M. Kollenberg and S. Winter
DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen, Abteilung Pflanzenviren, Inhoffen Straße 7b, 38124, Germany.

Generation of full infectious virus clones of Sri Lankan cassava mosaic virus and Indian cassava mosaic virus for resistance studies in Cassava

T. Makeshkumar [2]and S. Winter[1]
[1]DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen, Abteilung Pflanzenviren, Inhoffenstraße 7b, 38124, Germany. [2]Central Tuber Crops Institute, Thiruvananthapuram, India