

Conference Program

Thursday, June 25th

17:00 **Registration**

19:00 **Get together**

Friday, June 26th

9:00–9:15 **Opening**

9:15–10:15 **Viroid Structure**

9:15 Genome-wide structure-function analyses of local motifs in *Potato spindle tuber viroid*
B. Ding 1

9:55 Do viroid-induced ‘mutant swarms’ encode viroid-essential signals?
R. Piernikarczyk, J. Matoušek, R. Owens, G. Steger 3

10:15–10:40 **Coffee break**

10:40–12:00 **Viroid Structure**

10:40 Development of a viroid structure compendium
J.-P. Perreault, T. Giguère, C. Adkar-Purushothama, F. Bolduc 5

11:20 Production of recombinant RNA in *Escherichia coli* using *Egg-plant latent viroid* as a scaffold
V. Aragonés, M.-T. Cordero, J.-A. Daròs 7

12:00–13:00 **Lunch break**

13:00–14:40 **Transcriptional and Post-Transcriptional Gene Silencing**

13:00 The potential of viroid-mediated transcriptional gene silencing
M. Wassenegger 9

13:40 Viroid territorial behavior: a likely effect of population bottlenecks during host colonization
P. Serra, B. Navarro, F. Di Serio, R. Flores 11

14:20 Basis of the epigenetic alterations induced by HSVd
M. Castellano, V. Pallas, G. Gomez 13

14:40–15:10	Coffee break	
15:10–16:00	Transcriptional and Post-Transcriptional Gene Silencing	
15:10	New insights into degradation pathways of viroid RNAs <i>S. Minoia, B. Navarro, S. Delgado, R. Flores, F. Di Serio</i>	15
16:00	Visit of Budvar brewery	
18:00	Dinner (buffet-style) in Budvar brewery	

Saturday, June 27th

9:00–10:40	Transcriptional and Post-Transcriptional Gene Silencing	
9:00	Transgenic <i>Nicotiana benthamiana</i> expressing viroid-specific small RNAs derived from hotspot regions of various functional domains delays <i>Potato spindle tuber viroid</i> infection <i>C. Adkar-Purushothama, A. Kasai, K. Sugawara, H. Yamamoto, Y. Yamazaki, Y.-H. He, N. Takada, H. Goto, S. Shindo, T. Harada, T. Sano</i>	17
9:40	Strong imbalances in gene expression as consequence of a Pospiviroid pathogenesis network <i>J. Matoušek, R. Piernikarczyk, K. Siglová, G. Duraisamy, A. Týcová, T. Sano, G. Steger</i>	19
10:20	ARGONAUTE proteins play a role in plant anti-viroid defense <i>S. Minoia, A. Carbonell, F. Di Serio, A. Gisel, J. Carrington, R. Flores, B. Navarro</i>	21
10:40–11:00	Coffee break	
11:00–12:10	Transcriptional and Post-Transcriptional Gene Silencing	
11:00	History of viroid research <i>D. Riesner</i>	
11:30	RNA silencing pathways and <i>Potato spindle tuber viroid</i> : a complex relationship <i>K. Katsarou, E. Dadami, A. Oulas, K. Kalantidis</i>	23
12:10–13:00	Lunch break	

13:00–15:10 Poster session

15:10–16:10 Viroids as Threats

- 15:10 Identification and re-infection confirmed *Citrus bark cracking viroid* as a new hop pathogen
J. Jakše, S. Radišek, T. Pokorn, J. Matoušek, B. Javornik 25
- 15:30 Comparison of different methods for viroid plant inoculation
T. Guček, S. Radišek, J. Jakše, J. Matoušek, B. Javornik 27
- 15:50 Management of hop (*Humulus lupulus*) viroids in Slovenia
S. Radišek, J. Jakše, T. Guček, A. Čerenak, J. Matoušek, B. Javornik 29

16:30 Excursion to Český Krumlov

20:00 Dinner in hotel Budweis

Sunday, June 28th

9:00–10:40 Viroids as Threats

- 9:00 The next viroid conference . . .
F. Di Serio
- 9:20 Lessons learnt from *Potato spindle tuber viroid* infections in potatoes in The Netherlands
J. Th. J. Verhoeven, G. W. M. Vullings, F. J. A. Janssen, J. W. Roenhorst 31
- 9:40 Evaluating transmission risks of Pospiviroids in Belgium
N. Van Bogaert, G. Smagghe, K. De Jonghe 33
- 10:00 Molecular characterization of mulberry small circular RNA: a new species with a nature of satellite RNA showing hammerhead and new hairpin-like ribozyme activity
S. Li, Q. Lu, K. Sagawa, B. Navarro, F. Di Serio, T. Sano, T. Tsushima, Y. Kuai, W. Wang, Z. Wu, L. Xie 35
- 10:20 Pathogenicity of *Coconut cadang-cadang viroid* (CCCVd) variants on oil palm (*Elaeis guineensis* Jacq.) seedlings
G. Vadamalai, H. Joseph, S. Thanarajoo, L. Kong, J. Randles 37

Posters

Do viroids travel via insects and viruses to new hosts? <i>N. Van Bogaert, G. Smagghe, K. De Jonghe</i>	39
<i>Bougainvillea</i> and <i>Capsicum</i> extracts as disinfectants of <i>Chrysanthemum stunt viroid</i> <i>I. Boubourakas, M. Hosokawa</i>	41
Genetic variation of <i>Chrysanthemum stunt viroid</i> in Korea <i>H. Choi, Y. Jo, W.K. Cho</i>	43
NGS occurrence report of <i>Grapevine yellow speckle viroid 1</i> and <i>Hop stunt viroid</i> in grapevines in the Czech Republic <i>A. Eichmeier, P. Komínek, P. Saldarelli</i>	45
Detection of <i>Coconut cadang-cadang viroid</i> (CCCVd) and identification of variants infecting coconut palm and oil palm using RT-LATE-PCR <i>R. Finol-Urdaneta, K. Pierce, M. Ong-Abdullah, R. Sambanthamurthi, L. Wangh</i>	47
DCLi plants as tools for viroid studies <i>K. Katsarou, E. Dadami, A. Oulas, W. Dermauw, T. van Leeuwen, K. Kalantidis</i>	49
Pospiviroids on ornamentals — survey 2007–2014 <i>Š. Linhartová, K. Tománková</i>	51
Propagation characteristics of hop isolate of <i>Citrus bark cracking viroid</i> and its compatibility to other viroids during primary infections of <i>Humulus lupulus</i> cv. Oswald's 72. <i>J. Matoušek, K. Siglová, J. Jakše, S. Radišek, R. Piernikarczyk, T. Guček, G. Duraisamy, P. Svoboda, T. Sano, G. Steger</i>	53
Screening of CSVd resistant cultivars in chrysanthemum <i>T. Nabeshima, M. Doi, M. Hosokawa</i>	55
Change of expression in selected genes of viroid-infected hops <i>T. Pokorn, S. Radišek, B. Javornik, N. Štajner, J. Jakše</i>	57
Genetic variation of <i>Chrysanthemum chlorotic mottle viroid</i> in Korea <i>Y. Jo, H. Choi, W.K. Cho</i>	59

Pospiviroids cause imbalances in expression of genes encoding for RNA-dependent RNA polymerases. <i>K. Siglová, R. Piernikarczyk, G. Duraisamy, A. Týcová, A. Mishra, G. Steger, J. Matoušek</i>	61
Preliminary findings on <i>Coleus blumei</i> viroids in Croatia <i>D. Škorić, S. Černi, K. Jezernik</i>	63
Modeling the three-dimensional structure of the right-terminal domain of Pospiviroids <i>G. Steger, M. Tsagris</i>	65
DEP2: a Euphresco project on pospiviroid transmission, detection and disinfection <i>T. Olivier et al.</i>	66
Analysis of genetic stability and seed transmission of <i>Coleus blumei</i> viroid 1 variants with different internal loop structures <i>T. Tsushima, T. Sano</i>	67
The occurrence of HLVD in new varieties of Czech hops <i>P. Svoboda, J. Patzak, J. Matoušek, I. Maliřová</i>	69
Systemic accumulation and pathogenicity of <i>Potato spindle tuber viroid</i> is associated with the correlation between the right-hand half and the left-hand half of the molecule <i>D. Tsushima, T. Sano</i>	70
<i>Potato spindle tuber viroid</i> infection in tomato roots <i>A. Więsyk, W. Zagórski-Ostoja, A. Góra-Sochacka</i>	71
Reexamination of CSVd host species using an infectious cDNA clone <i>J.-Y. Yoon, S.-K. Choi, P. Palukaitis, G.-S. Choi</i>	72
Quasispecies sequence analysis of CChMVd from Korea <i>J.-Y. Yoon, M. Park, S.-K. Choi, E. Baek, P. Palukaitis</i>	73
Identification and characterization of viroids related to virus-like symptomatic apple fruits in China <i>W. Xu, F. Zha</i>	75

List of Participants	77
-----------------------------	-----------

Index of Authors	83
-------------------------	-----------