



## 8<sup>th</sup> ISTA SHC Seed Health Symposium 6<sup>th</sup> International Seed Health Conference

### Preliminary programme

Tuesday 4<sup>th</sup> September 2018

12:00-14:00 Registration and mounting of posters

#### Opening ceremony

14:00-14:45 **Jan Pikul** (Rector of the Poznań University of Life Sciences)  
**Valérie Grimault** (GEVES, Chair of the ISTA Seed Health Committee)  
**Małgorzata Mańka** (President of the Polish Phytopathological Society)  
**Dorota Szopińska** (Chair of the Organizing Committee)

14:45-15:00 Concert – Horn Brass Band „Venator” (the Poznań University of Life Sciences)

#### Plenary session, part I – invited speakers

Chair: **Stephan Briere** (Canadian Food Inspection Agency)

15:00-15:35 **Wilfried Jonkers** (Bejo Zaden B.V.) – ISHI-VEG best practices for use of different assays in seed health testing

15:35-16:10 **Thomas Baldwin** (Bio-GEVES) – Modern techniques in seed health testing

16:10-16:40 *Tea and coffee break*

#### Plenary session, part II – invited speakers

16:40-17:15 **Nicolas Denancé** (GEVES) – Is seed a pathway? – Updating the ISTA list of seed-borne/transmitted diseases

17:15-17:50 **Jan van der Wolf** (Wageningen University & Research) – Epidemiology of bacterial seedborne pathogens

17:50-18:10 Plenary session discussion, questions and answers

18:10-20:00 *Welcome party*



Wednesday 5<sup>th</sup> September 2018

**Join Sessions 1: New diseases and emerging seed-borne pathogens**

**2: Seed-borne diseases transmission and epidemiology**

Chair: **Xiulan Xu** (Beijing Academy of Agriculture and Forest Sciences)

- 09:00-09:20 *Fusarium langsethiae* in oat seeds in Norway – occurrence and possible role as primary inoculum  
**G. Brodal, H.U. Aamot, B. Isaksen, C. Grieu, I.S. Hofgaard**
- 09:20-09:40 Current status of the seed-borne pathogen *Sclerotinia sclerotiorum* in soybean crop in Brazil  
**D.S. Jaccoud-Filho, L. Henneberg, E.M.G. Grabicoski, N. Les, A.P. Teixeira, C.M. Vrisman, M.O. Manosso-Neto, A. Beger-Neto, C.R. Wutzki, F.F. Sartori, G.C. Huller, H.E. Tullip, R.R. De Castro, M.L.C. Pierre, C.L. Baran, M.A. Cantele, L.E. Cantele**
- 09:40-10:00 Identification of the *Microdochium* species responsible for reducing seedling emergence in spring oat and barley seed in Scotland  
**M. McEwan, T. Langan, V. Cockerell**
- 10:00-10:20 Morphological, molecular and pathogenic identification of *Botrytis* isolates obtained from onion seed samples produced in Argentina  
**J.G. Valdez, C. Tarnowski, P. Caligiore-Gei**
- 10:20-10:40 Pathways of *Xanthomonas campestris* pv. *campestris* resulting in seed infection of Brassica crops  
**J. van der Wolf, P. Kastelein, T.A. Fernandes da Silva Júnior**
- 10:40-10:55 Session 1 discussion, questions and answers
- 10:55-11:20 *Tea and coffee break*

**Session 3: Innovations and quality assurance in seed health testing**

Chair: **Guro Brodal** (Norwegian Institute of Bioeconomy Research)

- 11:20-11:40 Methods for measuring fungal infestation in wheat seed and their association with seed germination  
**H.U. Aamot, I.S. Hofgaard, B. Henriksen, G. Brodal**
- 11:40-12:00 Development of a Real-Time PCR testing protocol for blackleg of canola (*Leptosphaeria maculans*, anamorph *Phoma lingam*) in seed  
**S.C. Briere, Tropiano R., Wilson S., Bilodeau G.**
- 12:00-12:20 Treelamp: Development of methods for quality assurance of forest reproductive material using the example of Douglas fir  
**K. Morgenstern, J. U. Polster, P. Rödel, P. Schützel, D. Krael**
- 12:20-12:40 Application of Droplet Digital PCR in detection of seed-transmitted pathogen *Acidovorax citrulli*  
**Yu Lu, Haijun Zhang, Changlong Wen, Shuancang Yu, Xiulan Xu**



12:40-12:55 Sessions 2 and 3 discussion, questions and answers

12:55-14:20 Lunch

**Session 4: Seed treatments**

Chair: **David de Souza Jaccoud-Filho** (Fundação de Apoio ao Desenvolvimento Institucional, Científico e Tecnológico da Universidade Estadual de Ponta Grossa – FAUEPG)

14:20-14:40 Exploring *Streptomyces* bioagents for the management of vegetable seed diseases  
**T. Doolotkeldieva, S. Bobusheva**

14:40-15:00 The effects of grapefruit seed extract treatment on the milk thistle (*Silybum marianum* (L.) Gaertn.) seed health, germination and vigour  
**A. Rosińska, H. Dorna, D. Szopińska**

15:20-15:40 The effect of microwave radiation on germination and health of carrot (*Daucus carota* L.) seeds  
**D. Szopińska, H. Dorna, K. Marciniak**

15:40-15:55 The effect of acetic acid treatments on health and germination of stored onion (*Allium cepa* L.) seeds  
**H. Dorna, A. Rosińska, D. Szopińska**

15:55-16:10 Session 4 discussion, questions and answers

16:10-16:35 Tea and coffee break

**Poster Session**

Chair: **Hanna Dorna** (Poznań University of Life Sciences)

19:40-20:00 Overview and closing of Symposium

20:00-23:00 Symposium dinner

**Thursday 6<sup>th</sup> September 2018**

10:00-17:00 Visit in seed company WLegutko Plant Breeding and Seed Production Ltd.

**Friday 7<sup>th</sup> September 2018**

9:00-14:30 City tour

9:00-16:30 Kórnik and Rogalin castle tour



## List of oral presentations

### Plenary Session – invited speakers

- 1 **Jonkers W., Ranganathan R.** ISHI-VEG best practices for use of different assays in seed health testing
- 2 **Baldwin T.K.** Modern techniques in seed health testing.
- 3 **Denancé N., Henry C., Aveling T., Grimault V.** Is seed a pathway? Updating the list of seed-borne diseases
- 4 **van der Wolf J.** Epidemiology of seed-borne bacterial pathogens

### Session 1: New diseases and emerging seed-borne pathogens

- 5 **Brodal G., Aamot H.U., Isaksen B., Grieu C., Hofgaard I.S.** *Fusarium langsethiae* in oat seeds in Norway – occurrence and possible role as primary inoculum
- 6 **Jaccoud-Filho D.S., Henneberg L., Grabicoski E.M.G., Les N., Teixeira A.P., Vrisman C.M., Manosso-Neto M.O., Beger-Neto A., Wutzki C.R., Sartori F.F., Huller G.C., Tullip H.E., De Castro R.R., Pierre M.L.C., Baran C.L., Cantele M.A., Cantele L.E.** Current status of the seed-borne pathogen *Sclerotinia sclerotiorum* in soybean crop in Brazil
- 7 **McEwan M., Langan T., Cockerell V.** Identification of the *Microdochium* species responsible for reducing seedling emergence in spring oat and barley seed in Scotland
- 8 **Valdez J.G., Tarnowski C., Caligiore-Gei P.** Morphological, molecular and pathogenic identification of *Botrytis* isolates obtained from onion seed samples produced in Argentina

### Session 2: Seed-borne diseases transmission and epidemiology

- 9 **van der Wolf J., Kastelein P., Fernandes da Silva Júnior T.A.** Pathways of *Xanthomonas campestris* pv. *campestris* resulting in seed infection of Brassica crops

### Session 3: Innovations and quality assurance in seed health testing

- 10 **Aamot H.U., Hofgaard I.S., Henriksen B., Brodal G.** Methods for measuring fungal infestation in wheat seed and their association with seed germination
- 11 **Briere S.C., Tropiano R., Wilson S., Bilodeau G.** Development of a Real-Time PCR testing protocol for blackleg of canola (*Leptosphaeria maculans*, anamorph *Phoma lingam*) in seed.
- 12 **Morgenstern K., Polster J.U., Rödel P., Schützel P., Krabel D.** Treelamp: Development of methods for quality assurance of forest reproductive material using the example of Douglas fir
- 13 **Yu Lu, Haijun Zhang, Changlong Wen, Shuancang Yu, Xiulan Xu.** Application of Droplet Digital PCR in detection of seed-transmitted pathogen *Acidovorax citrulli*



#### Session 4: Seed treatments

- 14 **Doolotkeldieva T., Bobusheva S.** Exploring *Streptomyces* bioagents for the management of vegetable seed diseases
- 15 **Rosińska A., Dorna H., Szopińska D.** The effects of grapefruit seed extract treatment on the milk thistle (*Silybum marianum* (L.) Gaertn.) seed health, germination and vigour
- 16 **Szopińska D., Dorna H., Marciniec K.** The effect of microwave radiation on germination and health of carrot (*Daucus carota* L.) seeds
- 17 **Dorna H., Rosińska A., Szopińska D.** The effect of acetic acid treatments on health and germination of stored onion (*Allium cepa* L.) seeds

#### List of posters

##### Session 1: New diseases and emerging seed-borne pathogens

- 1 **Alberti L., Prodi A., Montanari M., Senatore M.T., Paris R., Nipoti P.** *Cercospora* species associated to soybean crop in Italy
- 2 **Andrzejak R., Marciniak P., Wieczynski M.** Assessment of rye (*Secale cereale* L.) kernels infection by *Fusarium* genus fungi
- 3 **Bernal-Vicente A., Donaire L., Gómez-Aix C., Agüero J., Sánchez-Pina M.A., Juárez M., Hernando Y., Aranda M.A.** Detection of viruses responsible of lettuce big-vein disease in seeds suggests the possibility of their seed transmission
- 4 **Sautua F., Scandiani M., Gordó M., Carmona M., Formento N., Tartabini M., Luque A.** Seed-borne fungal pathogens infecting maize seeds in Argentina from 2009 to 2017
- 5 **Sigillo L., De Angelis B., Marino G., Mondillo A., Serratore G., Zito D.** The health of basil seeds. A laboratory observation
- 6 **Szopińska D., Irzykowska L., Irzykowski W., Jarosz M.** The health status of common zinnia (*Zinnia elegans* Jacq.) seeds

##### Session 3: Innovations and quality assurance in seed health testing

- 7 **Langan T.** Monitoring the reduction in efficacy over-time of the herbicide 2,4-D in 1.2% water agar
- 8 **Torre C., Gómez-Aix C., Aranda M.A., Agüero J.** One-step Real Time RT-PCR for the detection of *Squash mosaic virus*, *Cucumber green mottle mosaic virus* and *Melon necrotic spot virus* in Cucurbits



#### Session 4: Seed treatments

- 9 **Brodal G., Bye H.B., Brurberg M.B., Fløistad I.S., Edvardsen Ø.M, Talgøm V.** Fungicide treatment against *Sirococcus conigenus* on Norway spruce seeds
- 10 **Jarosz M., Dorna D.** The effect of selected substances of plant origin on health and germination of stored onion (*Allium cepa* L.) seeds

**NOT CONFIRMED – participants are waiting for visa and/or did not pay yet. Their presentations/posters will be included into final programme of the Symposium after confirmation.**

**Ahmad S., Usama Bilal M., Zohaib Anjum M.** Incidence of wheat and maize grains mycoflora at different storage intervals in District Sargodha, Punjab, Pakistan.

**Lei Li, Zhihong Hu, Pengfei Liu, Xili Liu.** Controlling *Tomato chlorosis virus* (ToCV) by suppressing whitefly using neonicotinoid tablets

**Alifia A. D., Budiman C., Ilyas S.** Improving seed health and vigor of bambara groundnut (*Vigna subterranea* (L.) Verdc) by matryconditioning plus botanical fungicide

**Hikmawati A. N. M., Ilyas S., Manohara D.** Hot pepper (*Capsicum annuum* L.) seeds bioprimered with Rhizobacteria before storage were capable of improving plant growth and controlling Phytophthora blight disease after being stored for 7 months

**Agindotan B., Peluola C., Owati A., Burrows M.** New methods for detecting seedborne *Ascochyta* and *Botrytis* species causing *Ascochyta* blight and gray mold of pulse crops