

Wednesday 16 June

10:30 - 10:40 Opening Seed Symposium [Dr. Alison Powell, Seed Symposium Convenor]

10:40 - 12:30 [Session 1 - Technologies for improved seed supply](#)

Session Chair and Keynote speaker: Pramod K. Agrawal, Prasha Agri Consultants, India

Keynote : Seed led technology for better crop yield

Seed health in spinach seed by multispectral imaging

Merete Halkjaer Olesen, Jens Michael Carstensen and Birte Boelt.
University of Aarhus, Denmark

Detection of 3 fungal pathogens infecting *Linum* seeds by one single method

Isabelle Serandat, Clement Poisplaud, Ronit Cohen, Quentin Brunelle and Valerie Grimault.
GEVES-SNES, France

Survey of the infestation of dwarf bunt (*Tilletia controversa*) and common bunt (*Tilletia caries*) of wheat on seeds and in the soil

Markus Dressler, Benno Voit, Berta Killermann
Institut für Pflanzenbau und Pflanzenzüchtung, Germany

The use of film coating on treated corn seeds

Suemar Alexandre Gonçalves Avelar, Fabianne Valéria de Sousa, Guilherme Fiss, Leopoldo Baudet and Silmar Teichert Peske.
Federal University of Pelotas, Brazil

12:30 - 14:00 Lunch Break

14:00 - 14:40 [Session 1 \[continued\]](#)

Inert dusts, better alternatives to manage Angumois grain moth, *Sitotroga cerealella* in stored rice

Mandali Rajasri, P. Sambasiva Rao and K.V.S Meena Kumari.
Acharya NG Ranga Agricultural University, India

Sustainable seed supply for orchid horticulture and conservation

Hugh W. Pritchard, Philip T. Seaton, Y. Morales, N. Neto, P. León, P. Novoa, Hu Hong, H. Perner, J. Orejuela, J. Warner, Y. Yunelis Perez, J. Romero, C. Jijon, E. Sánchez, M. Plamieri, D. Puspitaningtyas, L. Pateña, Yam Tim Wing, K. Thammasiri, and Duong Tan Nhut.
Royal Botanic Gardens, Kew, UK

14:40 - 15:30 [Poster Session 1](#)

15:30 - 16:00 Coffee Break

16:00 - 17:30 [Poster Session 1 \[continued\]](#)

Thursday 17 June

08:30 - 10:00 [Session 2 – Aspects of purity: genetic, technical and physical](#)

Session Chair and Keynote speaker: Enrico Noli, University of Bologna, Italy
Keynote : Aspects of purity: genetic, technical and physical

Assessment of mechanical damage in sweet corn seed by image analysis

Francisco Guilhien Gomes Junior and Silvio Moure Cicero

University of São Paulo - "Luiz de Queiroz" College of Agriculture, Brazil

Image analysis of moving seeds in an indented cylinder

Ole Buus and Johannes Ravn Jorgensen

Aarhus University, Denmark

Free falling image acquisition system for Other Seed Determination of sunflower seed samples

Vincent Muracciolo, Dominique Bertrand, Patrick Plainchault and Maria Rosaria Mannino

GEVES (SNES), France

10:00 - 10:30 Coffee Break

10.30 – 11.30 [Session 2 continued](#)

Development of an ISTA DNA-based approach for testing variety identity

Ana Laura Vicario, E. Casarini, D. Perry, D. Zhang, C. Dollard and K. Hwu

Laboratorio Central de Análisis de Semillas, Argentina

Bonafide BDI™ – Pure PRG, a novel DNA based diagnostic test that detects annual ryegrass contamination in perennial ryegrass seeds

Pegadaraju Venkatramana, Quentin Schultz & Benjamin Kaufman

BioDiagnostics Inc, USA

Estimate of the gene flow among transgenic and non-transgenic cultivars of soybeans

Antonio Carlos Albuquerque Barros, Silmar Teichert Peske, Gaspar Malone, Otavio

Luis Mendes Levien and Lilian Madruga de Tunes

Federal University of Pelotas, Brazil

11:30 - 12:30 [Poster Session 2](#)

12:30 - 14:00 Lunch Break

14:00 - 15:00 [Poster Session 2 \[continued\]](#)

**15:00 - 15:30 [Session 3](#) – Basic approaches to physiological processes in seeds
(ISSS collaborative session)**

Session Chair and Keynote speaker: Gerhard Leubner, Albert-Ludwigs-University, Germany

Keynote: Comparative seed biology will lead the way: Evolutionary conservation and biodiversity of physiological mechanisms that control germination.

15:30 - 16:00 Coffee Break

16:00 - 17:00 [Session 3 \[continued\]](#)

Seed conservation in ex situ genebanks; genetical and physiological backgrounds for viability loss in wheat and barley after storage

Manuela Nagel, Ilse Kranner and Andreas Börner
IPK Gatersleben, Germany

Natural modifiers of seed longevity in the *Arabidopsis* mutants *abi3-5* and *lec1-3*

Matteo Sugliani, Loïc Rajjou, Emile Clerckx, Maarten Koornneef and Wim Soppe
Max Planck Institute for Plant Breeding Research, Germany

The combined use of *Arabidopsis thaliana* and *Lepidium sativum* to find conserved mechanisms of seed germination within the Brassicaceae family

Ada Linkies, Kerstin Müller, Karl Morris, Kai Gräber, Stefanie Tintelnot, William Finch- Savage and Gerhard Leubner-Metzger
Albert-Ludwigs-University, Germany

Friday, 18 June:

08:30 - 09:30 [Session 3 \[continued\]](#)

Water activity measurement: demonstration of a single and non-specific optimal storage value for orthodox forest seeds.

Fabienne Colas, Patrick Baldet and Michèle Bettez
Cemagref, France

Storability of ultra dry wheat, rape and onion seeds

Michael Kruse and Yang Chi
University of Hohenheim, Germany

Seed storage and dormancy in *Myosotidium hortensia*

Craig McGill, Myoung Joo Park, Jayanthi Nadarajan , Warren Williams and Bruce MacKay
Massey University, New Zealand

09:30 - 10:00 [Session 4 – Approaches to the evaluation and improvement of germination](#)

Session Chair and Keynote speaker: Joël Léchappé, GEVES, France

Keynote : The seed germination tests: ubiquitous and up-to-date tests over the years? Influence of external factors as quality assurance and progress in research on the stability and the evolution of the tests.

10:00 - 10:30 Coffee Break

10:30 - 12:30 [Session 4 \[continued\]](#)

Using climate data to predict optimum conditions for seed germination and dormancy breaking pre-treatments

Lindsay Robb, Robin Probert , John Dickie, Kenwin Liu and Fiona Hay
Royal Botanic Gardens, Kew, UK

Effectiveness of seed awn removal through chemical scarification in hybrids of *Pennisetum purpureum* x *P. glaucum* (elephantgrass x pearl millet) and *Andropogon gayanus* (gamba grass).

R Usberti and J A Usberti
Plant Protection Agency, Brazil

Optimal conditions for lettuce seed germination test

Sylvie Ducournau, Pierre Soufflet, Joël Léchappé and Angelo Vianello
GEVES (SNES), France

Rate of physiological germination relates to the percentage of normal seedlings in standard germination tests of naturally aged seed lots of oilseed rape

Mohammad Khajeh-Hosseini, Maryam Nasehzadeh and Stan Matthews
Ferdowsi University of Mashhad, Iran

Electrical conductivity could have a role in predicting germination and vigour in *Brassica* spp.

Zohair Mirdad and Alison A. Powell
University of Aberdeen, UK

Germination in recalcitrant seeds of Holm oak (*Quercus ilex* L): effect of storage conditions

Sergio Pasquini, Elisa Petrusa, Enrico Braidot and Angelo Vianello
National Centre for the Study and Conservation of Forest Biodiversity, Italy

12:30 - 14:00 Lunch Break

14:00 - 15:30 [Session 5 – Assessment and improvement of seed performance in practice](#)

Session Chair and Keynote speaker: S. Matthews, United Kingdom

Keynote: Seed vigour: from one hypothesis to many predictions and uses.

Computer vision for monitoring seed germination from dry state till young seedlings

Marie-Hélène Wagner, Didier Demilly, Sylvie Ducournau, Carolyne Dürr and Joël Léchappé
GEVES (SNES), France

Development of a non-destructive germination test by measuring seed oxygen consumption

Sebastian Bopper and Michael Kruse
University of Hohenheim, Germany

A fast ethanol assay for seed vigour

Steven P.C. Groot, Jan Kodde, Corine de Groot and Wayne D. Buckley
Plant Research International B.V., The Netherlands,

15:30 - 16:00 Coffee Break

16:00 - 17:00 [Session 5 \[continued\]](#)

Hydration treatment improves the performance of low vigour seed lots of pepper through metabolic repair

Ibrahim Demir, Kazim Mavi, Burcu Begüm Kenanoglu and Tuba Çelikkol
Ankara University, Turkey

Effect of pre-sowing and invigoration treatment for better crop establishment of mungbean

B Gopal Reddy, P Sambasiva Rao, M Sreedhar, KV Radha Krishna and S Kavitha
Acharya NG Ranga Agricultural University, India

Changes in water sorption properties after priming increases the longevity of *Rhododendron griersonianum* seed

Ian P. Wood, Fiona R. Hay and Rosemary J. Newton
Royal Botanic Gardens, Kew, UK