



INTERNATIONAL SEED TESTING ASSOCIATION (ISTA)

Secretariat, Zürichstrasse 50, 8303 Bassersdorf, CH-Switzerland

Phone: +41-44-838 60 00, Fax: +41-44-838 60 01, Email: ista.office@ista.ch, <http://www.seedtest.org>

SSAG members and their research interests, collaborative and commercial links

Name	Research interests	Collaborative and commercial links
Alison Powell (Chair)	<ul style="list-style-type: none"> • Seed physiology • Vigour test development • Physiological seed treatments 	<ul style="list-style-type: none"> • Advisor to EU projects ECOSEED and NASSTEC • Advisor to Scotia Seeds (wildflower seed company) • Research material provided by several seed companies
Brigitte Hamman (Vice-Chair)	<ul style="list-style-type: none"> • Seed physiology, with special interest in early germination pathways and storage/longevity • Seed Quality test development 	<ul style="list-style-type: none"> • Currently employed by Syngenta Crop Protection, main role is to manage the seed-safety testing programme of seed treatment products. • Collaborations with various multinational seed companies on optimal ways in which to evaluate the quality of treated seed. • Collaborations with independent seed testing labs on method development for evaluating quality of treated seeds.
Birte Boelt	<ul style="list-style-type: none"> • Management of seed crops to improve seed yield and quality. • Use of multispectral imaging to assess seed quality 	<ul style="list-style-type: none"> • Collaboration with the Danish Seed industry on herbage and vegetable seed production, seed processing and quality assessment
Laura Bowden	<ul style="list-style-type: none"> • Seed vigour – investigating the potential of new techniques for seed vigour testing, and improving the advice we can offer customers on current vigour tests by correlating the results of laboratory tests to seed performance under field conditions • Analysis of seed testing data from the past 20 years to determine the extent of the effect that the 	<ul style="list-style-type: none"> • Research in collaboration with Calmetrix, a company that sells calorimeters • OSTs has links to licensed seed testing stations and to some seed merchants.



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	<p>environment and other factors have on seed quality in cereal crops.</p> <ul style="list-style-type: none"> Investigating the causes and impact of seed quality issues in Scottish seed crops. 	
Francoise Corbineau	<ul style="list-style-type: none"> Physiology of seed dormancy and germination Acquisition and loss of tolerance to desiccation Evaluation and improvement of seed quality Seed longevity and storage 	<ul style="list-style-type: none"> Collaboration with European seed companies on seed quality and seed processing
Fiona Hay	<ul style="list-style-type: none"> Seed longevity Seed dormancy and germination behaviour and modelling Genebank management 	<ul style="list-style-type: none"> Have collaborated on research with various seed technology companies. Have lectured for the Seed Captain training program (International Seed Academy, Thailand).
Beni Kaufman	N/A	N/A
Stan Matthews	<ul style="list-style-type: none"> Physiological basis of seed vigour and its practical application 	<ul style="list-style-type: none"> Collaboration with many researchers, especially in Turkey, France and Scotland. Advisor to Scotia Seeds (wildflower seed company) Research material provided by several seed companies
Alan Taylor	<ul style="list-style-type: none"> Post-harvest aspects of seeds with emphasis on coating technologies and seed treatments. Studies of seed coat permeability in relation to systemic seed treatments. Seed investigations on vegetable crop, biofuel, in particular switchgrass and eastern gamagrass, and agronomic seeds. 	<ul style="list-style-type: none"> Collaboration with US and Multi-National companies on seed treatments and organic pesticides
Jane Thomas	<ul style="list-style-type: none"> Development of diagnostic techniques, especially rapid DNA based approaches, for the detection of seed-borne diseases of cereals and other crops 	



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	<p>Method development within ISTA working groups</p> <ul style="list-style-type: none"> • Strategies for effective seed sampling 	
<p>Joël Léchappé</p>	<ul style="list-style-type: none"> • Seed biology related to germination • Botany , systematic related to seed identification • Phenotyping, XRay imaging, multispectral phenotyping 	<p>The laboratory I belong to is involved in :</p> <ul style="list-style-type: none"> • Several collaborative research programmes involving public research organisations and private seed companies. EU programmes (e.g.: TESTA, Convigour) and French programmes (e.g.: AKER/sugar beet, Peamust/Pea,fababean, CTPS/Ministry of Agriculture research programmes) • Development of image analysis equipment in the framework of research programmes, in collaboration with public and private partners • Member of a phenotyping platform open to public and private researchers (Phenosem) • The routine activity of the laboratory covers regulatory analyses and private services (e.g. ISTA seed analyses and selectivity, efficiency of seed treatments for private firms) • The Laboratory is member of ISHI (International Seed Health Initiative), The laboratory hosts the ISHI coordinator (contract of confidentiality) • Invited member of seed quality group of IIRB (International Institute for research on Sugar Beet)



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Steve Jones	<ul style="list-style-type: none">• Seed physiology related to dormancy• Method development to support Rules changes in germination and purity testing• Seed sampling methods• Quality control processes	<ul style="list-style-type: none">• Working with other colleagues in CFIA on PCR detection of weed species in seed samples• Collaborative work with other Canadian and ISTA laboratories on method validation studies
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