



APPROVED WORKING PROGRAMME AND MEMBERSHIP OF ISTA COMMITTEES 2016-2019

- FINAL -

The enclosed document is circulated to the Members of the Executive Committee by email for their approval.



APPROVED WORKING PROGRAMME AND MEMBERSHIP OF ISTA COMMITTEES 2016-2019

The aim of this document is to approve the Working Programme and changes in the Compositions of the Technical Committees for the next triennium (2016 - 2019). New proposed members and other notes are highlighted in yellow.

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ATC – Advanced Technology Committee

COMMITTEE MEMBERSHIP LIST			
		Country	Active since
1	Chair: Bert van Duijn	Netherlands	2010
2	Vice Chair: Brigitte Hamman	South Africa	2010
3	Birte Boelt	Denmark	2010
4	Kent Bradford	U.S.A.	2010
5	Nikolay S. Priyatkin	Russia	2016
6	Henry Bruggink	Netherlands	2016
7	Harry Nijenstein	Netherlands	2010
8	Zhujun Zhu	China	2011
9	Ghasem Tohidloo	Iran	2012
10	Mieczyslaw Grzesik	Poland	2013
11	Karima Boudjerhi-Giresse	France	2013
12	3 more applications awaiting aproval		
13			
14			
15			
<u>B3. Scientific information publications</u>			
	Publication title	proposed finalisation	collaboration
1	X-ray application in seed evaluation	2016	
2	Nano-technology in seed applications	2017	
3	Web based overview: imaging technology for seeds	2016/2017	
C. WORKSHOPS AND SEMINARS			
<u>C1. Training and education workshops</u>			
	workshop subject location	proposed finalisation	collaboration
1	Optical methods in seed evaluation. Denmark	Sept 2017	
2	Imaging technology (South America)	2018	
3	Novel technologies in seed evaluation (Russia)	2018/2019	
<u>C2. Seminars</u>			
	Seminar subject location	proposed finalisation	collaboration
1	Novel technologies in seed evaluation (Poland/Iran/China)	2018	



BSC – Bulking and Sampling Committee

COMMITTEE MEMBERSHIP LIST		
	Country	Active since
1 Chair: Eddie Goldschagg	South Africa	2001
2 Vice-Chair: Leena Pietilä	Finland	2005
3 Ignacio Aranciaga	Argentina	2016
4 Lotta Claesson	Sweden	2008
5 Marie Duter	New Zealand	2010
6 Fabio Gorian	Italy	2009
7 Gerry Hall	United Kingdom	2001
8 David Johnston	United States	2016
9 Steve Jones	Canada	2013
10 Michael Kruse	Germany	1995
11 José Mauricio Pereira	Brazil	2013
12 Mable Simwanza	Zambia	2008
13 Jean-Claude Stephan	France	2010
14 Ad Toussaint	Netherlands	2013
15 Dot Vittrup Pedersen	Denmark	1998
A. RULES DEVELOPMENT		
<u>A1. Introduction of New Methods</u>		
Method name	proposed	collaboration
subject	finalisation	
1 Sampling for seed health testing	2018	TESTA
2 Use of drum-type mixers before dividing	2019	
3 Sampling of <i>Orobanche</i> & <i>Striga</i>	2018	PUR
<u>A2. Introduction of New Species</u>		
Species and test	proposed	collaboration
	finalisation	
1 <i>Salvia hispanica</i>	2017	PUR & GER
2 <i>Chenopodium quinoa</i>	2017	PUR & GER
<u>A3. Introduction of Rules Changes</u>		
Subject	proposed	collaboration
	finalisation	
1 Revision of Chapter 18, Testing Seed Mixtures	2017	PUR & GER
2 Submitting and Storing of Samples in Plastic Containers	2019	
3 Submitted Sample size for Moisture testing	2018	MOI



B. PUBLICATIONS		
<u>B1. Publications to accompany the Rules</u>		
	Publication title	proposed finalisation collaboration
1	ISTA Handbook on Seed Sampling	2016
<u>B2. Training publications on specific seed testing topics</u>		
	Publication title	proposed finalisation collaboration
1	Supporting material for 'Train the trainers' on Seed Sampling	2019
<u>B3. Scientific information publications</u>		
	Publication title	proposed finalisation collaboration
C. WORKSHOPS AND SEMINARS		
<u>C1. Training and education workshops</u>		
	workshop subject location	proposed finalisation collaboration
1	ISTA Workshop on Seed Sampling and Quality Assurance on Seed Sampling, Ashburton, New Zealand	Sept 2016
2	ISTA Combined Workshop on Seed Sampling, Purity and Germination, Hyderabad, India	Dec 2016
3	ISTA Workshop on Seed Sampling and Quality Assurance on Seed Sampling, focus on Automatic Sampling, Sweden	pre 2019
<u>C2. Seminars</u>		
	Seminar subject location	proposed finalisation collaboration
D. Proficiency Tests		
	Proficiency Test Subject	proposed finalisation collaboration
F. SPECIAL PROJECTS		
	project title / subject collaborating committees	proposed finalisation collaboration
1	Training videos and material on Seed Sampling	2018 ECOM
2	Review Validation Procedures for Sampling	2018
3	Validation study on tube trier	2018
4	Q & A Webpage	2017



FSC – Flower Seed Committee

COMMITTEE MEMBERSHIP LIST			
	Country	Active since	
1	CHAIR: Rita Zecchinelli	Italy	
2	VICE-CHAIR: Sharon Davidson	United States	
3	Rachel Davies	United Kingdom	
4	Miriam Dekalo Keren	Israel	
5	Alice Di Sacco	Italia	
6	Sylvie Ducournau	France	
7	Cecile Herzog	Switzerland	
8	Kumiko Jinno	Japan	
9	Stefanie Kraemer	Germany	
10	Frikkie Marais Lucile Pretorius	South Africa	Tbc
11	Maria Marin	United Kingdom	
12	Zita Ripka	Hungary	
13	Soo-Young KIM	South Korea	
14	Jorge Juan Vicedo	Spain	
15			
A. RULES DEVELOPMENT			
<u>A2. Introduction of New Species</u>			
	Species and test	proposed finalisation	collaboration
1	<i>Felicia heterophylla</i> - Germination, Purity	2017	
2	<i>Eustoma</i> spp. - Germination, Purity	2017	
3	Introduction of a germination method for <i>Salvia hispanica</i>		GER
<u>A3. Introduction of Rules Changes</u>			
	Subject	proposed finalisation	collaboration
1	Sample size for flower species (Table 2A part 3)	2019	BSC
B. PUBLICATIONS			
<u>B1. Publications to accompany the Rules</u>			
	Publication title	proposed finalisation	collaboration
1	Working sheets for the ISTA Handbook on Flower Seed Testing: <i>Asparagus, Consolida, Digitalis, Linaria, Myosotis, Nicotiana, Nigella, Phlox, Saponaria, Scabiosa, Silene</i>	2017	GER, PUR, TEZ
2	Working sheets for the ISTA Handbook on Flower Seed Testing: <i>Echium, Helipterum, Kalanchoe, Mimulus, Nemesis, Nemophila, Penstemon, Senecio, Solanum, Tripleurospermum, Verbascum</i>	2018	GER, PUR, TEZ
3	Working sheets for the ISTA Handbook on Flower Seed Testing: <i>Angelica, Artemisia, Cnicus, Datura, Echinacea, Hyssopus, Lavandula, Marrubium, Matricaria, Melissa, Mentha, Perilla, Pimpinella, Reseda, Ruta, Thymus, Sylibum, Valeriana</i>	2019	GER, PUR, TEZ



C. WORKSHOPS AND SEMINARS			
C1. Training and education workshops			
	workshop subject location	proposed finalisation	collaboration
1	ISTA/AOSA Flower Seed Committees joint WORKSHOP (Colorado, USA 2017). TBC	2017	AOSA
D. Proficiency Tests			
	Proficiency Test Subject	proposed finalisation	collaboration
1	ISTA PT 17-3 <i>Gypsophila elegans</i> (GER)	2017	PTC
F. SPECIAL PROJECTS			
	project title / subject collaborating committees	proposed finalisation	collaboration
1	Collection of information about seed testing for: spice, herb and medicinal species (inclusion of new working sheets in the ISTA Handbook on Flower Seed Testing – to be decided)	2019	GER, PUR, TEZ
2	Dormancy breaking treatments in <i>Passiflora</i> (<i>Passiflora</i> is not included in the ISTA Rules; before any study aimed to its inclusion, it is necessary to define suitable treatments for dormancy breaking)	2018	GER
3	Wild flower species (as part of a larger ISTA project on wild species, organized in co-operation with other Association/Institutions)		
4	Questionnaire to the ISTA labs and stakeholders about flower seed testing activities		



FTS – Forest Tree and Shrubs Seed Committee

COMMITTEE MEMBERSHIP LIST		
	Country	Active since
1 Chair: Fabio GORIAN	Italy	2003
2 Vice Chair: Elisa VIEIRA	Brazil	2015
3 Lena BEZDĚČKOVÁ	Czech Republic	2016
4 Valérie BLOUIN	France	2013
5 Marija GRADEČKI-POŠTENJAK	Croatia	2010
6 Robert Paul KARRFALT	USA	2007
7 Dave KOLOTELO	Canada	2004
8 Isolde Dorothea KOSSMANN FERRAZ	Brazil	2004
9 Czeslaw KOZIOL	Poland	2013
10 Steffi KRÄMER	Germany	2007
11 Beti PIOTTO	Italy	2010
12 Hugh PRITCHARD	United Kingdom	2007
13 Heidi Røsok BYE	Norway	2007
14 Dale SIMPSON	Canada	2007
15 Edoardo VINCENTI	Italy	2016
A. RULES DEVELOPMENT		
<u>A1. Introduction of New Methods</u>		
Method name	proposed	collaboration
subject	finalisation	
1 Introduction of agar substrate for <i>Pinus sylvestris</i> (David Johnston)	2017	GER
<u>A2. Introduction of New Species</u>		
Species and test	proposed	collaboration
	finalisation	
1 Introduction of a germination method for <i>Jatropha curcas</i> (Elisa Vieira, Brazil)	2017	GER
2 Introduction of a Tetrazolium method for <i>Juglans regia</i> (Steffi Kraemer, D)	2017	TEZ
3 Introduction of a Germination method for gen. <i>Palma</i> (Hugh Pritchard)	2019	KEW
<u>A3. Introduction of Rules Changes</u>		
Subject	proposed	collaboration
	finalisation	
1 Revision of PSD 47 and 51 (ISTA Rules 3.2.1.1.2 and 3.2.3)	2018	PUR



B. PUBLICATIONS		
<u>B1. Publications to accompany the Rules</u>		
Publication title	proposed finalisation	collaboration
1 Tree and shrub seeds Handbook (new widely revised edition)	2019	
2 Germination Seed Evaluation Handbook: Introduction of new photos of normal and abnormal seedlings of tree and shrub species	2019	GER
C. WORKSHOPS AND SEMINARS		
<u>C1. Training and education workshops</u>		
workshop subject location	proposed finalisation	collaboration
1 FTS workshop (TBC)	2019	
<u>C2. Seminars</u>		
Seminar subject location	proposed finalisation	collaboration
D. Proficiency Tests		
Proficiency Test Subject	proposed finalisation	collaboration
1 <i>Abies alba</i> Mill. (PT 2017/04-Ger); test leader Andrea Jonitz	2017	GER
F. SPECIAL PROJECTS		
project title / subject collaborating committees	proposed finalisation	collaboration
1 Electronic Handbook on tree and shrub seeds	2019	OECD



GER – Germination Committee

COMMITTEE MEMBERSHIP LIST			
		Country	Active since
1	CHAIR: Sylvie Ducournau	France	2004
2	VICE-CHAIR: Gillian McLaren	United Kingdom	2004
3	Pernilla Andersson	Sweden	2016
4	Ignacio Aranciaga	Argentina	
5	Sarah Dammen	United States	2013
6	Meriam Dekalo Keren	Israel	2016
7	Fabio Gorian	Italy	2010
8	Aidin Hamidi	Iran	2016
9	Christine Herzog	Switzerland	
10	David Johnston	United States	
11	Andrea Jonitz	Germany	
12	Augusto Martinelli	Argentina	
13	Harry Nijenstein	Netherlands	
14	Rita Zecchinelli	Italy	2010
A. RULES DEVELOPMENT			
<u>A1. Introduction of New Methods</u>			
	Method name	proposed	collaboration
	subject	finalisation	
1	Introduction of agar substrate for <i>Pinus</i> (Fabio Gorian & David Johnston)	2017	FTS
2	Introduction of agar substrate for grass species (Harry Nijenstein)		
3	Introduction of TP (including CCP) for maize germination (David Johnston)		
4	Introduction of OGM for <i>Phaseolus vulgaris</i> and <i>Glycine max</i> (Philippe Garreau, France & Sylvie Ducournau)	2017	
5	Removal of 20°C for <i>Raphanus sativus</i> germination (Christine Herzog & Pernilla Andersson)		
6	Addition of 20°C for <i>Anethum graveolens</i> germination (Valerie Blouin, France)	2018	
<u>A2. Introduction of New Species</u>			
	Species and test	proposed	collaboration
		finalisation	
1	Introduction of a germination method for <i>Brassica carinata</i> (Rita Zecchinelli)	2017	
2	Introduction of a germination method for <i>Chenopodium quinoa</i> (Lesly Gonzales, Chile)	2017	
3	Introduction of a germination method for <i>Salvia hispanica</i> (Sarah Dammen)		FSC
4	Introduction of a germination method for <i>Jatropha</i> (Elisa Vieira, Brazil, FTS)		FTS
5	If still necessary, introduction of a germination method for <i>Cleome gynandra</i> (Lea Mazor)		
6	Introduction of a germination method for Dwarf Saltwort (<i>Salicornia bigelovii</i> Torr. and <i>Salicornia persicum</i>) – Aidin Hamidi		



<u>A3. Introduction of Rules Changes</u>		
Subject	proposed finalisation	collaboration
1 AOSA / ISTA Harmonisation "leaf extending less than halfway up into the coleoptile" (David Johnston)	2017	AOSA
B. PUBLICATIONS		
<u>B1. Publications to accompany the Rules</u>		
Publication title	proposed finalisation	collaboration
1 HSE: publication of the new amendments of HSE		Secretariat
2 HSE: Introduction of new photos of normal and abnormal seedlings on tree and shrub species (Angélique Delanoue, France & Fabio Gorian)	2019	FTS
3 HSE: Precision of light requirement for germination testing	2019	
4 HSE: More precision regarding the requirements for the temperature profile of an incubator		
5 HSE: More examples for checking the counting equipments for germination		
<u>B2. Training publications on specific seed testing topics</u>		
Publication title	proposed finalisation	collaboration
1 ISTA Website / Germination page: introduction of a guideline for Soybean	2017	
<u>B3. Scientific information publications</u>		
Publication title	proposed finalisation	collaboration
C. WORKSHOPS AND SEMINARS		
<u>C1. Training and education workshops</u>		
workshop subject location	proposed finalisation	collaboration
1 ISTA Workshop on Sampling, Purity and Germination – Hyderabad, India	2017	BSC, PUR
<u>C2. Seminars</u>		
Seminar subject location	proposed finalisation	collaboration
1 Germination Seminar (Korea Seed & Variety Service Training course) – August 2016	2016	
D. Proficiency Tests		
Proficiency Test Subject	proposed finalisation	collaboration
1 16-2 <i>Brachiaria brizanthia</i>		
2 16-3 <i>Allium cepa</i>		
3 17-1 <i>Festuca arundinacia</i>		
4 17-2 <i>Trifolium repens</i>		
5 17-3 <i>Lolium perenne</i> <i>Gypsophila elegans</i> <i>Abies alba</i>		
6 18-1 <i>Lupinus angustifolius</i> <i>Beta vulgaris</i>		
7 18-2 <i>Daucus carota</i>		
8 18-3 <i>Oryza sativa</i>		



9	19-1 <i>Galega orientalis</i>		
10	19-2 <i>Brassica napus</i>		
11	19-3 <i>Hordeum vulgare</i>		
F. SPECIAL PROJECTS			
	project title / subject	proposed	collaboration
	collaborating committees	finalisation	
1	Spinach root system evaluation (Lucile Daron) – Validation study to introduce a root length criteria for normal seedling evaluation	2017	
2	Maize root system evaluation (Aidin Hamidi) – Study of the definition of the minimum number of secondary roots necessary to compensate a defective primary root	2018	
3	Germination conditions for confection sunflower germination testing – Study on the main causes that affect the germination results (Lingyu Zhang, USA)	2017	

GMO – Committee

COMMITTEE MEMBERSHIP LIST			
		Country	Active since
1	CHAIR: Cheryl Dollard	Canada	2007
2	VICE-CHAIR: René Mathis	France	
3	Christoph Haldemann (Past Chair)	Switzerland	
4	Elizabeth Bates	Belgium	
5	Sofia Ben Tahar	France	
6	Tajinder Grewal	Canada	
7	Lutz Grohmann	Germany	
8	Andrea Jonitz	Germany	
9	Jean-Louis Laffont	France	
10	Enrico Noli	Italy	
11	Elena Perri	Italy	
12	Kirk Remund	US	
13	Marco Mazzara	Italy	2015
14	Ana Laura Vicario	Argentina	
15	Bruno Zaccomer	France	
16	Dabing Zhang	China	
17	Ray Shillito	US	2013
18	Dwarkesh Parihar – NEW Member!!	India	2016
<i>The individuals below have expressed interest in supporting/participate in some WG activities, but are not official TCOM members:</i>			
WG member	<i>Benoit Maes – NEW! - WGs: GMO Proficiency Test: Resource Procurement; Standardized Terms, Rules-Handbook</i>	<i>Belgium</i>	<i>2016</i>
WG Member	<i>Daniel Perry – NEW!-WG: Rules-Handbook</i>	<i>Canada</i>	<i>2016</i>
WG Member	<i>Beth Rubin-Wilson – NEW!-WG: GMO Proficiency Test: Resource Procurement;</i>	<i>US</i>	<i>2016</i>
<u>A3. Introduction of Rules Changes</u>			
	Subject	proposed finalisation	collaboration
1	Clarification to sections: 19.6.2 on Unit of Measurements and 19.7 r.e. Performance data and connection to accreditation – to be discussed within the committee prior to submission.	2019	STA, Rules Committees
B. PUBLICATIONS			
<u>B1. Publications to accompany the Rules</u>			
	Publication title	proposed finalisation	collaboration
1	GMO Handbook – 1st draft completed	2017	STA, VAR, Secretariat
2	GMO Handbook – updates	As required	STA, Secretariat



B2. Training publications on specific seed testing topics			
	Publication title	proposed finalisation	collaboration
1	Please See B1.1 above		
B3. Scientific information publications			
	Publication title	proposed finalisation	collaboration
1	Solicit articles for STI and other publications upon request	Ongoing	Secretariat
2	Publication of results of ISTA GMO PT (Nearing Completion – on hold)	TBD	
C. WORKSHOPS AND SEMINARS			
C1. Training and education workshops			
	workshop subject location	proposed finalisation	collaboration
1	2017 – GMO Testing Workshop – Hyderabad, India	2017	STA, ECOM Member (K. Keshavulu), Secretariat
2	Other WS as requested, past interest expressed for Russia, Burkina Faso	TBD	
C2. Seminars			
	Seminar subject location	proposed finalisation	collaboration
1	As requested		
D. Proficiency Tests			
	Proficiency Test Subject	proposed finalisation	collaboration
1	PT21 – Maize – in progress	2016	STA, Secretariat
2	PT22 – Canola	2017	STA, Secretariat
3	PT23 – Alfalfa	2017	STA, Secretariat
4	PT24 – Corn	2018	STA, Secretariat
5	PT25 – Rice/Wheat/Flax	2018	STA, Secretariat
6	PT26 - TBD	2019	STA, Secretariat
F. SPECIAL PROJECTS			
	project title / subject collaborating committees	proposed finalisation	collaboration
1	ISTA GMO Website: To review and revise GMO content on the web following launch of the new ISTA website; To review and update as new information is made available to the GMO community	Ongoing	Secretariat
2	ATC Contact: To liase between GMO and ATC as appropriate	Ongoing	ATC
3	Statistical Tools for GMO Testing: To update and develop new tools as required	Ongoing	STA
4	GMO Resource Procurement: Continue to seek sources for seed and \$\$ to support the GMO PT Program	Ongoing	Secretariat
5	Standardized Terms: To develop list of standardized terms to be used by the ISTA Secretariat, auditors, and labs seeking accreditation	Ongoing	Secretariat



Detailed WG Structure and activities:

#	Working Groups	Lead	Members	Work Description and Projects
1.1	GMO Proficiency Test: Administration & Sample Preparation	ISTA TCOR- Nadine Ettel	<i>Christoph Haldemann, Jean-Louis Laffont and Cheryl Dollard (Expert Team), Sample Prep Lab Representative (TBD)</i>	Purpose: Execution of the GMO PT: <i>Lead:</i> Coordinate administration of the PT program from within the ISTA secretariat; <i>Expert Team:</i> Develop PT Plans, Evaluate Results and Ratings, address technical questions, assist with administration of program as described in the SOP for administration of the GMO PT Program. <i>Sample prep:</i> Purity check of material and preparation of PT Samples as described in the GMO PT Program Sample Prep SOP.
1.2	GMO Proficiency Test: Resource Procurement	Ray Shilito	<i>Bruno Zaccomer (Monsanto), Sofia Ben Tahar (Limagrain), Benoit Maes (Bayer), Beth Rubin-Wilson (Dow)</i>	Purpose: Resource procurement in support of the GMO PT Program: <i>Lead:</i> Solicits <i>WG members</i> to assist in securing reference materials (GM and non-GM) from Industry and financial support for PT program from Industry/corporate partners and identification of new WG members from other Industry areas: Syngenta, Pioneer, etc. <i>Secretariat contact:</i> ISTA TCOM Coordinator (Nadine Ettel)
1.3	Workshops	Cheryl Dollard (Temporary)	<i>Enrico Noli, Bruno Zaccomer, Dabing Zhang, Christoph Haldemann, Jean-Louis Laffont, Kirk Remund, Dwarkesh Parihar</i>	Purpose: Delivery of training workshops in GMO Testing: <i>Lead:</i> Liaison between TCOM and training requests; works with contact at ISTA Secretariat for communications with workshop hosts to determine capacity and content requirements; <i>WG members:</i> Develop training materials for detection and identification of GM seed (AP and Trait purity); delivery of international training workshops. <i>Secretariat contact for WS:</i> ISTA TCOM Coordinator (Nadine Ettel)
1.4	ISTA GMO Website	Elizabeth Bates	<i>Tajinder Grewal, Mihael Cristin Ichim, Guy Van den Eede, Dabing Zhang, Ray Shilito, Lutz Grohmann, Dwarkesh Parihar</i>	Purpose: To work to develop proposed content for the GMO TCOM Webpage; <i>Lead:</i> Works with <i>WG members</i> to review and provide updates to the ISTA Website content associated with GMO TCOM activities and information.
1.5	ATC contact	A.-L. Vicario	N/A	Purpose: Committee contact for the Advanced Technologies Committee
1.6	Statistical tools for GMO Testing	Jean-Louis Laffont	<i>Kirk Remund, Gabriel Carré, Bruno Zaccomer, Christoph Haldemann</i>	Purpose: Statistical support of the Committee (Specialized): <i>Lead:</i> oversee delivery of projects/topic of interest; Measurement Uncertainty, Maximum Pool Size, Group testing, Estimation for PTS, Other as required by the GMO TCOM and ISTA membership. <i>WG members</i> assist in delivery under the oversight of the Lead.
1.7	Publications	Bruno Zaccomer	<i>Cheryl Dollard, Jean-Louis Laffont, Enrico Noli, Kirk Remund, Christoph Haldemann, Tajinder Grewal</i>	Purpose: Coordination of writing of technical publications; <i>Lead:</i> solicits articles focused on GMO testing in Seed for publication in journals and trade magazines and acts as contact for information on publication of such articles; <i>WG members</i> contribute to the writing of ISTA originated articles; Current topics: Publication of the results of the ISTA GMO PT program (B. Zaccomer Lead); Articles for STI (Various Leads); Reports of the GMO PT Rounds (Various leads); Other
1.8	Rules- Handbook	René Mathis, with E. Noli (Handbook)	<i>Elizabeth Bates, Cheryl Dollard, Kirk Remund, Bruno Zaccomer, Christoph Haldemann, Jean-Louis Laffont; Elena Perri, Gabriel Carré, Ana-Laura Vicario, Ray Shilito, Daniel Perry, Benoit Maes</i>	Purpose: To develop New Rules Chapter and accompanying Technical Handbook for GMO Testing: <i>Rules Lead:</i> Coordinate activities related to proposed rules changes; <i>Handbook Leads:</i> Coordinate activities related to GMO Handbook completion. <i>WG members:</i> Complete writing of assigned sections, develop content and edit material for publication. The Rules chapter was completed in 2013 and has not required significant change since that time. The Handbook is nearly complete and hoped to be finalized by 2017. New WG



				members with specific expertise are added to this group as the project evolves. New in 2016: An additional member of the VAR TCOM (Daniel Perry) has been invited to the group to enable a direct connection with DNA WG activities related to new DNA test methods for Variety Testings and plans for development of a supporting handbook. Both handbooks will share common themes with regard to DNA methods, and this connection will help support the VAR TCOM as they go through their handbook development process, while providing additional expertise towards the development of GMO.
1.9	Standardized Terms (working title of group)	TBD	<i>Andrea Jonitz, Lutz Grohmann, Nadine Ettel, Benoit Maes, Ray Shilito, Marco Mazzara</i>	Purpose: To compile a standardized list of terms used in GMO testing to support ISTA accreditation activities. Lead: coordinate compilation of lists of standard language/terms. This list will encompass currently internationally accepted terms/nomenclature, and will act as a “translation” document to assist the ISTA Secretariat, Accreditation Department and Auditors when recording information related to GMO test methods on the Scope of Accreditation of labs accredited under ISTA for GMO Testing. It will also assist GMO testing labs select the correct terms to use in their documentation. Development of this list will help make data tracking more standard. <i>WG members</i> will contribute to the initial development of the list, and contribute to ongoing maintenance, as required. It is anticipated that once the initial list is established, the ongoing maintenance required will be minimal.



MOI – Moisture Committee

COMMITTEE MEMBERSHIP LIST			
		Country	Active since
1	CHAIR: Jette Nydam	Sweden	2001
2	VICE-CHAIR: Laura Bowden	United Kingdom	2013
3	Gerarda de Boer	Netherlands	2007
4	Olfat El Bagoury	Egypt	
5	Robert Karrfalt	United States	
6	Sergio Pasquini	Italy	2007
7	Axel Goeritz	Germany	2015
8	Susan Alvarez	United States	2015
9	Baymolo Goma	Zambia	2015
10	Wen-Ju Yang	Separate Customs Territory of Taiwan, Penghu, Kinmen and Matsu	2015
11	Céline Herbert	France	2016
A. RULES DEVELOPMENT			
<u>A1. Introduction of New Methods</u>			
	Method name	proposed	collaboration
	subject	finalisation	
1	Use of equilibrium Relative Humidity (eRH) as an alternative for the determination of seed moisture status	2018	FTS, STA
<u>A2. Introduction of New Species</u>			
	Species and test	proposed	collaboration
		finalisation	
1	<i>Solanum nigrum</i>	2017	STA
2	<i>xFestulolium</i>	2016	STA
3	<i>Carica papaya</i>	2017	STA
<u>A3. Introduction of Rules Changes</u>			
	Subject	proposed	collaboration
		finalisation	
1	Checking the need for grinding of <i>Gleditsia triacanthos</i> , <i>Albizia julibrissin</i> , <i>Medicago sativa</i> , <i>Lotus pedunculatus</i> , <i>Lotus corniculatus</i> , <i>Trifolium pratense</i> , <i>Trifolium repens</i> , <i>Vigna radiata</i>	2017	STA
2	Requirement to the ground material for coarse grinding	2019	STA
B. PUBLICATIONS			
<u>B1. Publications to accompany the Rules</u>			
	Publication title	proposed	collaboration
		finalisation	
1	Review and update Handbook on Moisture Determination	2019	ISTA Secretariat



<u>B2. Training publications on specific seed testing topics</u>			
	Publication title	proposed finalisation	collaboration
1	Excel tool for calculation of moisture test results	2018	
<u>B3. Scientific information publications</u>			
	Publication title	proposed finalisation	collaboration
C. WORKSHOPS AND SEMINARS			
<u>C1. Training and education workshops</u>			
	workshop subject location	proposed finalisation	collaboration
1	Calibration of moisture meters	2017	



NOM – Nomenclature Committee

COMMITTEE MEMBERSHIP LIST			
		Country	Active since
1	Chair: John Wiersema	United States	1992
2	Vice-Chair: Ernest Allen	United States	2014
3	Susan Alvarez	United States	2016
4	Bernard R. Baum	Canada	pre-1995
5	Michel Chauvet	France	pre-1995
6	Axel Diederichsen	Canada	2007
7	Kees van Ettehoven	Netherlands	2002
8	Doris Groth	Brazil	2001
9	Karl Hammer	Germany	2007
10	Wilbert Hetterschied	Netherlands	2003
11	Klaus Pistrick	Germany	1999
12	Tamara Smekalova	Russia	2016
B. PUBLICATIONS			
<u>B3. Scientific information publications</u>			
	Publication title	proposed finalisation	collaboration
1	ISTA List of Stabilized Plant Names, ed. 7	Dec-2019	RULES



PUR – Purity Committee

COMMITTEE MEMBERSHIP LIST			
		Country	Active since
1	Chair: Gerarda de Boer-Raatgever	Netherlands	
2	Vice Chair: Ruoqing Wang	Canada	
3	Andrea Jonitz	Germany	
4	Augusto Martinelli	Argentina	
5	Charan Jeet Mehta	India	
6	Deborah Meyer	United States	1995
7	Dot Vittrup Pedersen	Denmark	2013
8	Karima Boudehri-Giresse	France	2013
9	Kepha Oganda	Kenya	
10	Maria Duter	New Zealand	
11	Myriam Alvisi	Brasil	
12	Zita Ripka	Hungary	
13	Carrie Lewis	United States	2016
14	Selma Kurt	Turkey	2016
A. RULES DEVELOPMENT			
<u>A2. Introduction of New Species</u>			
	Species and test	proposed finalisation	collaboration
1	<i>Chenopodium quinoa</i> , TSW data completed, PSD 2 not chaffy, submitted sample 100g, purity = 10g, OSD = 100g	2016-2019	GER, BSC
2	<i>Salvia hispanica</i> , TSW data needs collecting, PSD needs to be determined	2016-2019	GER, BSC
3	<i>Brassica carinata</i> , TSW data needs collecting, PSD needs to be determined	206-2019	GER, BSC
<u>A3. Introduction of Rules Changes</u>			
	Subject	proposed finalisation	collaboration
1	Updating the ISTA list (table 3A) for the addition of new varieties of <i>Poa pratensis</i> with 1000 seed weight less than 0.35g	2016-2019	WG: blowing
2	Reporting of unidentified seeds on ISTA certificates, at the moment only possible to report to Genus level according the rules	2016-2019	
3	Addition of Striga to the method for Orobanchae testing	2016-2019	
4	Review and clarification of chapter 10 on 1000 seed weight, clarify the number of decimal places to use and how to report on ISTA certificate	2017	
5	Revision of chapter 14: The X-ray test, possible to use other machines to do this test	2016-2019	
6	Revision of chapter 11 on Coated seeds: Look at new ways to do the verification of species, on how to remove coating	2016-2019	
7	Revise working sample weight for Beta vulgaris (monogerm sugar beets)	2016-2019	
8	Revise rule 3.5.2.7 impurities with undue effect on result	2016-2019	
9	<i>Coriandrum sativum</i> , query TSW and working sample weights 200 gr for OSD instead of 400	2016-2019	BSC



B. PUBLICATIONS		
B1. Publications to accompany the Rules		
Publication title	proposed finalisation	collaboration
1 PSD handbook, revision	2016-2019	Purity committee
2 Update the guidance paper on "Guidelines for blower calibration and use of the uniform blowing procedure for <i>Poa pratensis</i> and <i>dactylis glomerata</i> " to include the use of the anemometer to measure the Equivalent Air Velocity (EAV) as a reading of the uniform blowing point	2017	
B2. Training publications on specific seed testing topics		
Publication title	proposed finalisation	collaboration
1 Complete the image file of the Universal List	2017	ISTA Secretariat
2 Upload the seed descriptions and pictures of the tropical species that are made available	2017	WG leader: Myriam Alvisi Colaborators: Dr. Doris Groth, Kepha Oganda, Augusto Martinelli
B3. Scientific information publications		
Publication title	proposed finalisation	collaboration
C. WORKSHOPS AND SEMINARS		
C1. Training and education workshops		
workshop subject location	proposed finalisation	collaboration
1 Joint workshop on Purity, Sampling and Germination in Hyderabad, India	2016	BSC, GER
2 Provide Seed ID knowledge with the uploads of images of the Universal list and the tropical species	2017	
D. Proficiency Tests		
Proficiency Test Subject	proposed finalisation	collaboration
1 Take over the work on the mixture PT rounds	Once every 3 years	PT committee
F. SPECIAL PROJECTS		
project title / subject collaborating committees	proposed finalisation	collaboration
1 Develop statistical toolkits for purity calculation and rounding	2016-2019	STAT
2 New technologies in purity testing (eg Image analysis) and how to validate them for doing purity analysis	2016-2019	ATC, other?
3 Look into other ways of training people in doing seed identification and practical work (eg web-seminars, instruction video, seed id websites)	2016-2019	BSC
4 Publish FAQ on web-site for people/members to look into to learn from each other	2016-2019	ISTA secretariat
5 Collaboration with AOSA on project how to determine "caryopsis containing any endosperm"	2016-2019	AOSA

**SHC – Seed Health Committee**

COMMITTEE MEMBERSHIP LIST			
		Country	Active since
1	CHAIR: Valerie Grimault	France	
2	VICE-CHAIR: Terry Aveling	South Africa	
3	Ilaria Alberti	Italy	
4	Siham Asaad	Syria	
5	Rouke Bakker	New Zealand	
6	Harrie Koenraad	Netherlands	
7	Ronit Kohen	Israel	
8	Gary Munkvold	Unites States	
9	Masatoshi Sato	Japan	
10	Sandra Walker	United States	
11	Dorota Szopinska	Poland	
12	Mark Buimer	Netherlands	
13	Reyes Blanco	Spain	
14	Nelia Nkhoma Phiri	Zambia	2016
15	Rosa Piña González	Chile	2016
A. RULES DEVELOPMENT			
<u>A1. Introduction of New Methods</u>			
	Method name	proposed	collaboration
	subject	finalisation	
1	SHC 35: Detection of <i>Botrytis allii</i> in onion seeds lots	2016	ISHI
2	<i>Fusarium graminearum</i> , <i>F. langsethiae</i> , <i>F. culmorum</i> and <i>F. poae</i>	2016-2019	Nibio Norway
3	<i>Fusarium oxysporum</i> on tomato	2016	.
4	SHC.64: Detection of <i>X. oryzae</i> pathovars on rice seeds	2016	IRRI
5	SHC XX: Detection of <i>Ditylenchus</i> on alfalfa and faba bean seeds	2016	
6	SHC.71: <i>Ascochyta rabei</i>	2016-2019	
7	<i>Fusarium spp./Zea mays</i>	-	
8	Living <i>Neotyphodium</i> , grass seed	-	
9	Nematodes on onion seeds	-	
10	SHC XX: Detection of <i>Verticilium</i> on spinash seeds	2016-2019	ISHI
11	SHC XX: Detection of <i>Acidovorax citrullii</i> on cucurbit seeds	2016-2019	ISHI
12	SHC.68: Detection of Xcc by dPCR BIO PCR on Brassica seeds	2016-2019	ISHI
<u>A2. Introduction of New Species</u>			
	Species and test	proposed	collaboration
		finalisation	
1	SHC XX: <i>Phoma lingam</i> 7-004 –removal of 2,4D	2016	ISHI
2	SHC XX: Pea, <i>Pisum sativum</i> 7-005, add pathogens	2016-2019?	ISHI
3	SHC XX: <i>U.nuda/Hordeum vulgare</i> , staining	2016-2019	SASA
4	SHC.72: P pisi PCR to replace pathogenicity test	2016-2019	ISHI
5	<i>Aschochyta</i> pea: comparing NUV/dark	2016-2019?	



B. PUBLICATIONS		
B1. Publications to accompany the Rules		
Publication title	proposed finalisation	collaboration
1 Handbook	?	
C. WORKSHOPS AND SEMINARS		
C1. Training and education workshops		
workshop subject location	proposed finalisation	collaboration
1 Molecular detection	2016	NL
2 How to validate a method and check the performance of quality system in Seed Health testing	2017	SP
3 Fungi Linum, Sunflower, Soybean	2017	FR
C2. Seminars		
Seminar subject location	proposed finalisation	collaboration
1 Seed Health seminar, Poland	2018	PL
D. Proficiency Tests		
Proficiency Test Subject	proposed finalisation	collaboration
1 7_026 cucurbits viruses	2016	NL
2 7-025 <i>Aphenlenchoides besseyi</i>	2017	Indonesia, ANSES FR
7-007 3 pathogens <i>Linum</i>	2017	FR
3 7-021 and 7-023 <i>Pseudomonas</i> and <i>Xanthomonas</i> bean	2017	FR
F. SPECIAL PROJECTS		
project title / subject collaborating committees	proposed finalisation	collaboration
1 Annotated List crop updates	2016-2019?	ISHI



STA – Statistic Committee

COMMITTEE MEMBERSHIP LIST		
	Country	Active since
1 Chair: Jean-Louis Laffont	France	
2 Vice-Chair: Kirk Remund	United States	
3 Gabriel Carré	France	
4 Olfat El Bagoury	Egypt	
5 Mustapha El Yakhlifi	France	
6 Mohamed Hanafi	France	
7 Bonnie Hong	United States	
8 Winfried Jackisch	Germany	
9 Zivan Karaman	France	
10 Ray Shillito	United States	
11 Bo-Jein Kuo	Separate Custom Territory of Taiwan, Penghu, Kinmen and Matsu	
A. RULES DEVELOPMENT		
<u>A1. Introduction of New Methods</u>		
Method name	proposed	collaboration
subject	finalisation	
1 Statistical reviews of Test Plans and Validation Reports	on-going	Any TCOM
2 Contribution to the analysis of some Validation Studies	on-going	Any TCOM
<u>A2. Introduction of New Species</u>		
Species and test	proposed	collaboration
	finalisation	
1 Statistical reviews of Test Plans and Validation Reports	on-going	Any TCOM
2 Contribution to the analysis of some Validation Studies	on-going	Any TCOM
<u>A3. Introduction of Rules Changes</u>		
Subject	proposed	collaboration
	finalisation	
1 Contribution to the writing of the GMO Testing Handbook		GMOC



B. PUBLICATIONS		
<u>B1. Publications to accompany the Rules</u>		
Publication title	proposed finalisation	collaboration
1 Posterior predictive MS Excel calculator	2017	GMOC
2 Seedcalc update for MS Excel 2007	2017	Any TCOM
<u>B2. Training publications on specific seed testing topics</u>		
Publication title	proposed finalisation	collaboration
<u>B3. Scientific information publications</u>		
Publication title	proposed finalisation	collaboration
C. WORKSHOPS AND SEMINARS		
<u>C1. Training and education workshops</u>		
workshop subject location	proposed finalisation	collaboration
1 "Training of TCOMs in Statistics for MV Studies" workshop - Zurich, Switzerland	2016	ISTA Secretariat
2 "How to validate a method and check the performance of quality system in Seed Health testing" workshop - Almeria, Spain	2017	SHC
3 "ISTA/AOSA/SCST SeedCalc" Workshop - Denver, USA	2017	AOSA/SCST
4 Upon request, workshops on GMO Testing and on statistical methods supporting ISTA Rules		Any TCOM
<u>C2. Seminars</u>		
Seminar subject location	proposed finalisation	collaboration
D. Proficiency Tests		
Proficiency Test Subject	proposed finalisation	collaboration
F. SPECIAL PROJECTS		
project title / subject collaborating committees	proposed finalisation	collaboration
1 Update Heterogeneity Testing Calculator	2017	BSC
2 Review PT rating application	2016	ISTA Secretariat
3 Determine the true distribution of various statistics (e.g. dispersion factor, range, number of positive reps, ...) associated to the distribution of seeds with two characteristics in different replicates.	2017	GMOC, GERC, BSC



STO – Storage Committee

COMMITTEE MEMBERSHIP LIST			
		Country	Active since
1	Chair: Hugh W. Pritchard	UK	
2	Vice-Chair: David Mycock	RSA	
3	Sarah Ashmore	Australia	New 2016
4	Joseph Asomaning	Ghana	
5	Andreas Börner	Germany	
6	Rekha Chaudhury	India	
7	Isolde Ferraz	Brazil	
8	Elena Gonzalez-Benito	Spain	
9	Steven Groot	Netherlands	New 2016
10	Frank Lanfermeijer	Netherlands	New 2016
11	Isaura Martin	Spain	
12	Moctar Sacandé	Italy	
13	Sershen	RSA	
14	Christina Walters	USA	New 2016
15	Xiang-Yun Yang	China	
Co-opt	<i>Ellie Merrett Wade (seed storage guidelines)</i>	UK	New 2016
B. PUBLICATIONS			
<u>B1. Publications to accompany the Rules</u>			
	Publication title	proposed finalisation	collaboration
1	Handbook on Seed Storage (will include Appendix on seed storage of Rules species)	2019	
<u>B2. Training publications on specific seed testing topics</u>			
	Publication title	proposed finalisation	collaboration
1	<i>NB The Handbook aims to be a valuable training publication with case studies, etc</i>		
<u>B3. Scientific information publications</u>			
	Publication title	proposed finalisation	collaboration
1	30 scientific publications (book chapters and journal articles, including in SS&T) on seed storage.		
<u>C2. Seminars</u>			
	Seminar subject location	proposed finalisation	collaboration
1	First International Agrobiodiversity Congress will be held in November 2016 in Delhi, India. STO members Chaudhury and Pritchard are invited speakers on seed storage and will promote ISTA at this congress	2016	
2	International Botanic Congress (IBC) 2017 will be held in Shenzhen, China in July 2017. A session on seed storage (Hot Forests and Cold Storage) is co-organised by Prof Hugh W. Pritchard and STO member Sershen is an invited speaker. Pritchard and Sershen will promote ISTA	2017	



	at this meeting.		
3	Seed Working Group of the German Society for Plant Breeding and the German Society for Plant Cultivation Research will hold the biennial conference in April 2018 at the IPK in Gatersleben. Organiser and promoter of ISTA at this congress is Prof Andreas Börner.	2018	
4	Society for Cryobiology congress will be held in Madrid in 2018 and there will be a session on seed storage. Pritchard will promote ISTA at this meeting.	2018	
F. SPECIAL PROJECTS			
	project title / subject	proposed	collaboration
	collaborating committees	finalisation	
1	Characterisation of seed storage biology for 100 'new' species:	2019	
2	Develop and/or apply five innovations / techniques associated with seed storage (e.g., cryopreservation, biophysical analysis).	2019	
3	Maximise dry storage potential (including seed health, role of oxygen in seed ageing) for seeds of 70 species.	2019	



TEZ – Tetrazolium Committee

COMMITTEE MEMBERSHIP LIST			
		Country	Active since
1	Mrs. Stefanie Krämer	Germany	
2	Mr. Sergio Pasquini	Italy	
3	Mr. Ignacio Aranciaga	Argentina	
4	Mrs. María Belén Aranguren	Argentina	
5	Mrs. Alessandra Arioli	Italien	2016
6	Mrs. Valerie Blouin	France	
7	Mr. Jose Manuel Brava	Mexico	
8	Mrs. Sharon Davidson	USA	
9	Mr. Gary Duffy	Ireland	
10	Mr. Jose B. Franca-Neto	Brazil	
11	Mrs. Linda Maile	United Kingdom	
12	Mr. Augusto Martinelli	Argentina	
13	Mrs. Eunhee Soh	South Korea	2016
A. RULES DEVELOPMENT			
<u>A2. Introduction of New Species</u>			
	Species and test	proposed finalisation	collaboration
1	Glycine max	2017	
2	Pennisetum	open	
3	Panax ginseng	open	
4	Chenopodium	open	
B. PUBLICATIONS			
<u>B3. Scientific information publications</u>			
	Publication title	proposed finalisation	collaboration
1	Reorganise Handbook Tetrazolium	2018	
2	Revision of the TEZ working sheets	2017	
3	Continue TEZ Working sheets	open	
C. WORKSHOPS AND SEMINARS			
<u>C1. Training and education workshops</u>			
	workshop subject location	proposed finalisation	collaboration
1	Workshop on Flower seeds in Oregon USA	2017	FSC,GER
2	Workshop in Canada Agricultural seed	2017	
<u>C2. Seminars</u>			
	Seminar subject location	proposed finalisation	collaboration
F. SPECIAL PROJECTS			
	project title / subject collaborating committees	proposed finalisation	collaboration
1	Effects of Staining time in Correlation to Tetrazoliumconcentration and staining temperatur	2017/2018	
2	Cooperation with the Wild Species Working group		



VAR – Variety Committee

COMMITTEE MEMBERSHIP LIST			
		Country	Active since
1	Ana Laura Vicario	Argentina	2007
2	Daniel Perry	Canada	2007
3	Chiara Delogu	Italy	2007
4	Anne Bernole	France	2015
5	Kae-Kang Hwu	Separate Customs Territory of Taiwan, Penghu, Kinmen and Matsu	2007
6	Kunusoth Keshavulu	India	2007
7	Ksenija Taski-Ajdukovic	Serbia	2007
8	Hedwich Teunissen	Netherlands	2007
9	Elisa Vieira	Brazil	2007
10	Ksenia Markovic	Serbia	2007
11	Verena Peterseil	Austria	2015
12	Marie-Josè Cotè	Canada	2016
13	Berta Killermann	Germany	2007
A. RULES DEVELOPMENT			
<u>A1. Introduction of New Methods</u>			
	Method name subject	proposed finalisation	collaboration
1	DNA-based method for maize	2016	STA
2	DNA-based method for Pea	2019	STA
3	DNA-based method for Barley	2019	STA
4	Hybrid formula check on maize by DNA-based methods	2019	STA
5	IEF on triticum (whether or not this project proceeds will be determined based on the survey results)	2019	STA
B. PUBLICATIONS			
<u>B1. Publications to accompany the Rules</u>			
	Publication title	proposed finalisation	collaboration
1	Handbook on DNA methods	2019	GMO, STA, Editorial, A&T
2	Electrophoresis handbook revision	2017	Editorial, Secretariat
<u>B2. Training publications on specific seed testing topics</u>			
	Publication title	proposed finalisation	collaboration
<u>B3. Scientific information publications</u>			
	Publication title	proposed finalisation	collaboration



C. WORKSHOPS AND SEMINARS		
C1. Training and education workshops		
workshop subject	proposed	collaboration
location	finalisation	
1	Workshop on variety and GMO testing in India	2017 GMO
2	Workshop on variety testing in the Netherlands	2017 UPOV, OECD
C2. Seminars		
Seminar subject	proposed	collaboration
location	finalisation	
D. Proficiency Tests		
Proficiency Test Subject	proposed	collaboration
	finalisation	
1	Proficiency test on wheat by DNA-based methods	2019 STA, ISTA Secretariat
2	Proficiency Test on A-PAGE for wheat (whether or not this project proceeds will be determined based on the survey results)	2018 PT, Secretariat
F. SPECIAL PROJECTS		
project title / subject	proposed	collaboration
collaborating committees	finalisation	
1	Survey on the techniques (DNA and protein electrophoresis methods) used by laboratories	2016 ISTA Secretariat
2	PCR validation to differentiate <i>lolium perenne</i> from <i>lolium multiflorum</i>	2019 BDI and ISTA Secretariat



VIG – Seed Vigour Committee

COMMITTEE MEMBERSHIP LIST		
	Country	Active since
1 Alison Powell (Chair)	UK	1995
2 Hulya Ilbi (Vice Chair)	Turkey	2007
3 Ibrahim Demir	Turkey	2007
4 Dionysia Fasoula	Cyprus	2010
5 Carina Gallo	Argentina	2010
6 Simon Goertz	Germany	2014
7 G.V. Jagadish	India	2015
8 Mohammad Khajeh Hosseini	Iran	2004
9 Tim Loeffler	USA	2007
10 Stan Matthews	UK	2004
11 Carey Matthiessen	Canada	2013
12 Gillian McLaren	UK	2004
13 Enrico Noli	Italy	2013
14 Marie-Hélène Wagner	France	2004
15 Yan Rong Wang	China	1992
A. RULES DEVELOPMENT		
<u>A2. Introduction of New Species</u>		
Species and test	proposed finalisation	collaboration
1 Wheat: Radicle emergence test	2017	
2 Chickpea (Desi type): Electrical conductivity test	2017	
3 Onion: Radicle emergence test	2018	
4 Alfalfa: Radicle emergence test	2018	
5 Soyabean: Radicle emergence test	2018	
6 Tomato: Radicle emergence test	2019	
7 Sweet pepper: Radicle emergence test	2019	
8 Sunflower: Radicle emergence test	2019	
9 Brassica : Radicle emergence test	2019	
10 Brassica: Electrical conductivity test	2019	
11 Lentil: Radicle emergence test	2019	
12 Lentil: Electrical conductivity test	2019	
13 <i>Avena sativa</i> and <i>Elymus nutans</i> : Radicle emergence test	2018	
<u>A3. Introduction of Rules Changes</u>		
Subject	proposed finalisation	collaboration
1 Addition of wheat to Radicle emergence test	2017	
2 Addition of chickpea (desi type) to Electrical conductivity test	2017	
3 Addition of onion to Radicle emergence test	2018	
4 Addition of alfalfa to Radicle emergence test	2018	
5 Addition of soyabean to Radicle emergence test	2018	
6 Addition of tomato to Radicle emergence test	2019	
7 Addition of sweet pepper to Radicle emergence test	2019	
8 Addition of brassica to Radicle emergence test	2019	
9 Addition of lentil to Radicle emergence test	2019	



10	Addition of sunflower to Radicle emergence test	2019	
11	Addition of brassica to Electrical conductivity test	2019	
12	Addition of lentil to Electrical conductivity test	2019	
13	Addition of <i>Avena sativa</i> and <i>Elymus nutans</i> to Radicle emergence test	2018	
B. PUBLICATIONS			
<u>B1. Publications to accompany the Rules</u>			
Publication title		proposed finalisation	collaboration
1	Revised Vigour Test Handbook	2020	
<u>B2. Training publications on specific seed testing topics</u>			
Publication title		proposed finalisation	collaboration
<u>B3. Scientific information publications</u>			
Publication title		proposed finalisation	collaboration
C. WORKSHOPS AND SEMINARS			
<u>C1. Training and education workshops</u>			
workshop subject location		proposed finalisation	collaboration
1	Advanced workshop on Radicle Emergence and Electrical conductivity tests, Bangalore, India	February 2017	
<u>C2. Seminars</u>			
Seminar subject location		proposed finalisation	collaboration
1	Vigour seminar to students and seed industry, Ege University, Izmir, Turkey	To be decided	
D. Proficiency Tests			
Proficiency Test Subject		proposed finalisation	collaboration
1	Radicle emergence test: oilseed rape	2017	PT
F. SPECIAL PROJECTS			
project title / subject collaborating committees		proposed finalisation	collaboration
1	Investigation of the relationship between seed vigour and cell cycle during germination of wheat, alfalfa and chickpea	N/A	
2	Prediction of longevity in pepper by the radicle emergence test	N/A	

EB-SST – Editorial Board of Seed Science and Technology

COMMITTEE MEMBERSHIP LIST			
		Country	Active since
1	Chief Editor: Fiona Hay	The Philippines	
2	Alison A. Powell	United Kingdom	
3	Christophe Bailly	France	
4	Antonio Dell'Aquila	Italy	
5	Brigitte Hamman	Switzerland	
6	Julio Marcos-Filho	Brazil	
7	David Mycock	South Africa	
8	Moctar Sacandé	United Kingdom	
9	Norman Schaad	United States	
10	Michael Sussman	United States	
11	Christopher Wood	United Kingdom	
12	Matthew Daws	Australia	
13	Alan Taylor	USA	
14	Laura Bowden	United Kingdom	
15	Daniel Perry	Canada	
16	Fabio Gresta	Italy	
17	Uma Rani Sinniah	Malaysia	
18	Andrea Mondoni	Italy	
19	Steven P.C. Groot	Netherlands	

The task of the editorial board is to edit the ISTA scientific journal „Seed Science and Technology“. Seed Science and Technology (SST) is one of the leading international journals featuring original papers and review articles in all areas of seed quality and physiology as related to seed production, harvest, processing, sampling, storage, genetic conservation, habitat regeneration, distribution and testing. SST is published in three issues per volume and year with approximately 600 pages.

RUL – Rules Committee

COMMITTEE MEMBERSHIP LIST			
		Country	
1	Steve Jones (chair)	Canada	
2	Ernest Leonard Allen (vice-chair)	United States	
3	Cheryl Dollard (GMO)	Canada	
4	Sylvie Ducournau (GER)	France	
5	Eddie Goldschagg (BSC)	South Africa	
6	Fabio Gorian (FTS)	Italy	
7	Valerie Grimault (SHC)	France	
8	Fiona Hay (EDI)	Philippines	
9	Stefanie Krämer (TEZ)	Germany	
10	Jean-Louis Laffont (STA)	France	
11	Attilio Lovato (Honorary President)	Italy	
12	Günter Müller (PTC)	Germany	
13	Jette Nydam (MOI)	Sweden	
14	Alison A. Powell (VIG)	United Kingdom	
15	Hugh W. Pritchard (STO)	United Kingdom	
16	Jane Taylor (PUR)	United Kingdom	
17	Bert van Duijn (ATC)	Netherlands	
18	Ana Laura Vicario (VAR)	Argentina	
19	John H. Wiersema (NOM)	United States	
20	Rita Zecchinelli (FSC)	Italy	
21	Michael G. Stahr (AOSA)	United States	
22	Susan Alvarez (SCST)	United States	

The Rules Committee is made up of the Chairs of the Technical Committees (TCOMs), Chair of the SST Editorial Board, Honorary President and Chair of the AOSA Rules Committee. The main responsibility of the Rules Committee is to update and maintain the ISTA Rules.

One of the main tasks is to work with the Publications Unit and the TCOM Coordinator of ISTA to produce the annual Rules proposal document which collates any editorial changes with rules proposals from the Technical Committees. The Committee also decides whether the proposals are technically sound and discusses any issues, especially when proposals affect more than one Technical Committee. The Committee votes on the proposals and makes a recommendation to the Executive Committee for submission of the proposal document for voting by the voting members at the annual meeting.

The Chair of the Rules Committee presents the Rules proposals during the annual voting meetings to the ISTA Membership and the voting members.



PTC – Proficiency Test Committee

COMMITTEE MEMBERSHIP LIST			Country	Active since
1	Günter Müller		Germany	
2	Didier Demilly		France	
3	Christian Boehm		Denmark	
4	Sarah Dammen		United States	
5	Sharon Davidson		United States	
6	Andrea Jonitz		Germany	
7	Mari Jürman		Estonia	
8	Sinikka Köylijärvi		Finland	
9	Gillian McLaren		United Kingdom	
10	Sergio Pasquini		Italy	
11	Dot Vittrup Pedersen		Denmark	
12	Zita Ripka		Hungary	
13	Soja Sekharan		Netherlands	
14	Benno Voit		Germany	
15	Ruojing Wang		Canada	
16	Rita Zecchinelli		Italy	

The task of the Proficiency test committee is to manage the ISTA proficiency test being relevant for the accreditation to the ISTA member laboratories in all aspects and in supporting single committees by setting up proficiency test in their areas on a non-regular basis.

ISTA Proficiency Test Programme Plan 2016-2019

Round	Species	Test round scope	Crop group	Size	Representative species	Test leader
17-1	<i>Festuca arundinacea</i>	P, OSD, G	1	C	Grasses	Ruojing Wang
17-2	<i>Brassica napus</i> <i>Trifolium repens</i>	Vigour P, OSD, G, MOI	3	A	Radical emergence test Small legums	Gillian McLaren Christian Boehm
17-3	<i>Lolium perenne</i> <i>Gypsophila elegans</i>	P, OSD, G, TZ, OIC G	1	C	Grasses Flower seed	Dot Vittrup Pedersen Zita Ripka
18-1	<i>Abies alba</i> <i>Lupinus angustifolius</i>	G G, MOI	4	C	Tree seed Pulses	Lena Bezděčková Günter Müllerr
18-2	<i>Beta vulgaris</i> (Coated Seed)	G;OIC	5	A	Other agricultural species	Didier Demilly
18-3	<i>Daucus carota</i> <i>Oryza sativa</i>	P, OSD, G, OIC	6 2	A B	Vegetables Cereals	Soja Sekharan Rita Zecchinelli
19-1	<i>Galega orientalis</i>	P, OSD, G; MOI	3	A	Small legums	Mari Jürmann
19-2	<i>Brassica napus</i>	P, OSD,	5	A	Other agricultural	Andrea Jonitz



19-3	<i>Hordeum vulgare</i>	G;TZ; P, OSD, G, TZ	2	A	species Cereals	Sarah Dammen
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* P=Purity, G=Germination, OSD=Other Seed Determination, M=Moisture, TZ=Tetrazolium, OIC=reporting on an Orange International Seed Lot Certificate, V=vigour