



**APPROVED WORKING PROGRAMME (TERMS OF REFERENCES) AND MEMBERSHIP
OF ISTA COMMITTEES 2010-2013**



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ATC - Advanced Technologies Committee

Chair:	Bert van Duijn	Netherlands
Vice:	Brigitte Hamman	Switzerland
Members:	Birte Boelt	Denmark
	Kent J. Bradford	USA
	Joost van der Burg	Netherlands
	Rukui Huang	China
	Bob Legro	Netherlands
	Harry Nijënstein	Netherlands
	Zhujun Zhu	China

A Rules Development

A.1 Introduction of New Methods

	Method name/Subject	Proposed finalisation	Collaboration
1	Chlorophyll fluorescence and germinating seeds	2011	
2	Image analysis	2012	
3	Seed Analyser	2012	
4	Oxygen Sensor technology	2012	
5	Finding new technologies	continuous	

B Publications

B.1 Publications to accompany the Rules

	Publication title	Proposed finalisation	Collaboration
1	New ATC	2011	

B.3 Scientific information publications

	Publication title	Proposed finalisation	Collaboration
1	ATC Web-pages	2011	
2	Overview new technologies list	2011	
3	Review Image analysis	2012	

C Workshops and Seminars

C.1 Training and education workshops

	Workshop subject and location	Proposed finalisation	Collaboration
1	Specific technology workshop (to be discussed)	2013	

C.2 Seminars

	Seminar subject and location	Proposed finalisation	Collaboration
1	New Seed Technologies (to be discussed)	2012 and 2013	



BSC - Bulking and Sampling Committee

Chair:	Leena Pietilä	Finland
Vice-Chair:	Max Soepboer	Netherlands
Members:	Helena Blomqvist-Ljung	Sweden
	Laura Carlson	USA
	Lotta Claesson	Sweden
	Maria Duter	New Zealand
	Eddie Goldschagg	South Africa
	Fabio Gorian	Italy
	Gerry Hall	United Kingdom
	Michael Kruse	Germany
	Andrei Mihalachi	Republic of Moldova
	Jette Nydam	Denmark
	Dot Vittrup Pedersen	Denmark
	Mable M. Simwanza	Zambia
	Jean-Claude Stephan	France

A Rules Development

A1 Introduction of New Methods

	Method name/Subject	Proposed finalisation	Collaboration
1	The minimum inside diameters of Nobbe trier and sampling stick	2013	
2	Validation of the tube trier	2012	
3	Sampling of Orobanchea	2013	PUR
4	Sampling of seed mixture	2012	

A2 Introduction of New Species

	Species and test	Proposed finalisation	Collaboration
1	Addition of certain <i>Prunus</i> species to the table 2A (<i>P. besseyi</i> , <i>P. mahaleb</i> , <i>P. virginiana</i> , <i>P. besseyi</i> , <i>P. virginiana</i>)	2013	FTS

A3 Introduction of Rules Changes

	Subject	Proposed finalisation	Collaboration
1	Moisture sampling: clarification	2011	Moisture Committee
2	Sampling by hand: clarification	2011	FTS
3	Uniformity and sub-samples: clarification	2011	
4	Revision of the conditions when hand-halving and spoon method can be used	2011	FTS
5	Revision of the 11.2 (Sampling) in the Rules, Chapter 11: Testing Coated Seeds	2012	

B Publications

B1 Rules accompanying publications

	Publication title	Proposed	Collaboration
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		finalisation	
1	ISTA Handbook on Seed Sampling	2012	ISTA Accreditation Department

B2 Training publications on specific seed testing topics

	Publication title	Proposed finalisation	Collaboration
1	Supporting material for 'Train the trainers'	2013	

C Workshops and Seminars

C1 Training and education workshops

	Workshop subject and location	Proposed finalisation	Collaboration
1	Workshop on sampling	2011	

F Special Projects

	Project title/Subject and collaborating committees	Proposed finalisation	Collaboration
1	ISTA/ISF Herbage Seed Lot Size Experiment: final report 2013 at the latest	2013	
2	Mixture	2011-2012	PUR, GER
3	Automatic seed samplers	2011	
4	Sampling of small seed lots	2013	STAT
5	Monitoring of sampling	2012	ISTA Accreditation Department



FSC - Flower Seed Committee

Chair:	Rita Zecchinelli	Italy
Vice:	Sharon K. Davidson	USA
Members:	Sylvie Ducournau	France
	Anton Grim	Netherlands
	Kumiko Jinno	Japan
	Miriam Dekalo Keren	Israel
	Frikkie A. Marais	South Africa
	Aleta Meyr	USA
	Zita Ripka	Hungary
	Milka Vujakovich	Serbia
	Wen-shi Wu	Taiwan*

*abbreviation for 'Separate Customs Territory of Taiwan, Penghu, Kinmen and Matsu'

A Rules Development

A.1 Introduction of New Methods

	Method name/Subject	Proposed finalisation	Collaboration
1	<i>Alcea rosea</i> : germination method in sand	2012	GER

A.2 Introduction of New Species

	Species and test	Proposed finalisation	Collaboration
1	<i>Felicia heterophylla</i>	2011	PUR, GER, STA

A.3 Introduction of Rules Changes

	Subject	Proposed finalisation	Collaboration
1	Samples size for flower species (Tab. 2A part 3)	2013	PUR, BSC

B Publications

B.1 Publications to accompany the Rules

	Publication title	Proposed finalisation	Collaboration
1	New Method Sheets for the ISTA Flower Seed Testing Handbook: Alyssum spp.; Arabis spp.; Aubrieta deltoidea; Aurinia saxatilis; Erysimum spp.; Iberis spp.; Lobularia maritima; Campanula spp.; Abutilon x hybridum; Alcea rosea; Althaea spp.; Lavatera trimestris; Malope trifida; Lobelia spp.	2010/2011	GER, PUR, TEZ
2	New Method Sheets for the ISTA Flower Seed Testing Handbook: Amaranthus spp.; Aquilegia spp.; Convolvulus tricolor; Ipomoea spp.; Chrysanthemum indicum; Glebionis spp.; Leucanthemum spp.; Tanacetum spp.; Papaver spp.	2011/2012	GER, PUR, TEZ
3	New Method Sheets for the ISTA Flower Seed Testing Handbook: Achillea spp.; Anemone spp.; Ranunculus asiaticus; Linum spp.; Cleome hassleriana; Clarkia spp.; Oenothera macrocarpa; Lathyrus spp.; Lupinus spp.; Mimosa pudica	2012/2013	GER, PUR, TEZ



C Workshops and Seminars

C1 Training and education workshops

	Workshop subject and location	Proposed finalisation	Collaboration
1	Workshop on flower seed testing (Netherlands, in conjunction with the Annual Meeting)	2012	To be defined

D Proficiency Tests

	Proficiency Test Subject	Proposed finalisation	Collaboration
1	11-1 L.odo (<i>Latyrus odoratus</i> , germination)	2011	PTC

F Special Projects

	Project title/Subject	Proposed finalisation	Collaboration
1	Seedling evaluation in <i>Salvia</i> spp.	2011	GER



FTS - Forest Tree and Shrub Seed Committee

Chair:	Fabio Gorian	Italy
Vice:	Zdenka Prochazkova	Czech Republic
Members:	Heidi Rosok Bye	Norway
	Rosa Colomer	Spain
	Isolde Ferraz	Brazil
	Robert P. Karrfalt	USA
	Dave Kolotelo	Canada
	Steffi Kraemer	Germany
	Ef시오 Mattana	Italy
	Beti Piotto	Italy
	Hugh W. Pritchard	United Kingdom
	Dale Simpson	Canada
	Victor Vankus	USA

A Rules Development

A1 Introduction of New Methods

	Method name/Subject	Proposed finalisation	Collaboration
1	<i>Abies</i> stratification	2013	GER
2	Water activity measurement	2013	MOI, STO, Kew
3	Alternative germination substrates (i.e. agar)-for conservation programs (seed banks)-small seed lots	2013	GER, STO, Kew
4	Pretreatments on Mediterranean shrub seeds	2013	FSC, GER, TZ, STO

A2 Introduction of New Species

	Species and test	Proposed finalisation	Collaboration
1	Validation of germination methods for tropical/subtropical tree species	2013	GER (Kew)
2	Tetrazolium (new species)	2013	TEZ
3	MOI determination (e.g. large tropical seeds species)	2013	MOI (Kew)
4	<i>Juglans</i> spp.	2013	AOSA

B Publications

B.1 Publications to accompany the Rules

	Publication title	Proposed finalisation	Collaboration
1	Tree and shrub seed Handbook (<i>revision</i>)	2012	
2	Sampling Handbook (<i>revision adding the tree seed part</i>)	2012	BSC

B2 Training publications on specific seed testing topics

	Publication title	Proposed finalisation	Collaboration
1	Guia de propágulos e Plantulas da Amazônia, volume 1: to publish in English, Edited by Isolde D.K.Ferraz	2013	Kew
2	Guia de propágulos e Plantulas da Amazônia, volume 2: to publish in English, Edited by Isolde D.K.Ferraz	2013	Kew
3	Handbook on seedling evaluation: Improvement of tree and shrub photos of seedlings	2013	GER



C Workshops and Seminars

C1 Training and education workshops

	Workshop subject and location	Proposed finalisation	Collaboration
1	Mediterranean species, Madrid (E)	2013	GER
2	Water Activity workshop, Montargis, France	2010	STO, MOI

C2 Seminars

	Seminar subject and location	Proposed finalisation	Collaboration
1	OECD Annual meeting, 2012 Verona (Italy)	2012	OECD

D Proficiency Tests

	Proficiency Test Subject	Proposed finalisation	Collaboration
1	<i>Pinus sylvestris</i>	2013	PUR, GER



GER - Germination Committee

Chair:	Sylvie Ducournau	France
Vice-chair:	Anny van Pijlen	Netherlands
Members:	Ignacio Aranciaga	Argentina
	Ronald Don	United Kingdom
	Kari Fiedler	USA
	Fabio Gorian	Italy
	Andrea Jonitz	Germany
	Krystyna Kolasinska	Poland
	Augusto Martinelli	Argentina
	Lea Mazor	Israel
	J. Harry Nijënstein	Netherlands
	Gillian McLaren	United Kingdom
	Takayuki Okuda	Japan
	Hakon Tangeras	Norway
	Rita Zecchinelli	Italy

A Rules Development

A1 Introduction of New Methods

	Method name/Subject	Proposed finalisation	Collaboration
1	Shortening the time of the final count for certain grass species (<i>Festuca rubra</i> , <i>Poa pratensis</i> , <i>Lolium perenne</i>)	2011	STA
2	Use of KNO ₃ for lettuce seed germination test	2011	STA
3	Add the temperature of 20°C for the germination of <i>Spinacia oleracea</i>	2011	STA
4	Use of KNO ₃ for <i>Panicum maximum</i> and <i>Panicum coloratum</i> seed germination test	2011	STA
5	Shortening the time of the final count for <i>Trifolium repens</i> , <i>Trifolium pratense</i> and <i>Medicago sativa</i> from 10 days to 7 days	2012	STA

A2 Introduction of New Species

	Species and test	Proposed finalisation	Collaboration
1	<i>Solanum nigrum</i> . Introduction of germination method	2010	STA
2	Bamboo seeds. Introduction of germination method	2012	STA, BSC, PUR
3	<i>Eustoma</i> sp. Introduction of germination method	2012	STA, BSC, PUR, FSC
4	<i>Brassica carinata</i> . Introduction of germination method	2012	STA, BSC, PUR

A3 Introduction of Rules Changes

	Subject	Proposed finalisation	Collaboration
1	Ending germination tests once pre-determined germination levels are achieved	2012	
2	Not differentiating between categories of non-germinated seed	2011	
3	Introducing flexibility in germination test methods	2012	



B Publications

B.1 Publications to accompany the Rules

	Publication title	Proposed finalisation	Collaboration
1	Validation report: germination method for <i>Solanum nigrum</i>	2010	STA

B2 Training publications on specific seed testing topics

	Publication title	Proposed finalisation	Collaboration
1	Handbook on Seedling Evaluation: Changes in relation to ISTA Rules chapter 5 changes. Examples: counting apparatus, growing media checks.	2011	
2	Handbook on Seedling Evaluation: Guidance on assessment of <i>Glycine max</i> and <i>Helianthus annuus</i> seedlings.	2011	FSC for Helianthus
3	Handbook on Seedling Evaluation: Guidance on assessment of fused cotyledons and apical meristems of dicotyledons	2011	
4	Handbook on Seedling Evaluation: Guidance on assessment of retarded primary root	2011	
5	Handbook on Seedling Evaluation: Improvement of tree and shrubs photos of seedlings	2011	FTS
6	Handbook on Seedling Evaluation: List of species where hard seeds may be found	2012	

C Workshops and Seminars

C1 Training and education workshops

	Workshop subject and location	Proposed finalisation	Collaboration
1	Germination Workshop in Kenya	2010	TZ, STA
2	Germination Workshop in Canada	2012	Saskatoon laboratory

C2 Seminars

	Seminar subject and location	Proposed finalisation	Collaboration
1	Germination Seminar in Japan in connection with the Annual ISTA Meeting	2011	

D Proficiency Tests

	Proficiency Test Subject	Proposed finalisation	Collaboration
1	<i>Vicia faba</i>	2010	MOI
2	<i>Helianthus annuus</i>	2011	PUR
3	<i>Lathyrus odoratus</i>	2011	FSC
4	<i>Triticum aestivum</i>	2011	PUR, TZ, MOI
5	<i>Trifolium</i>	2011	PUR
6	<i>Sorghum</i>	2012	PUR, TZ
7	<i>Phleum pratense</i>	2012	PUR, TZ
8	<i>Lactuca sativa</i>	2012	

**F Special Projects**

	Project title/Subject and collaborating committees	Proposed finalisation	Collaboration
1	Survey on : – the need for seed disinfection before germination test; – particle size of Sand and OGM used for germination tests; – light (intensity/wavelength) used in germination tests.	2011	
2	Comparing results obtained from all the possible ISTA methods for <i>Beta vulgaris</i> and <i>Helianthus annuus</i> in order to keep only the best ones	2012	International Institute for Beet Research, STA
3	Seed Mixture Experiment Experiment initiated November 2008 with the aim of collecting information that will allow rules to be proposed for the testing of seed mixtures		BSC, PUR, STA



GMO - Committee

During the ISTA Congress in Cologne the GMO Task Force was transferred into a Technical Committee, the GMO Committee. Due to this status change the number of its members is exceptional and for a time limited set up to 17.

Chair:	Christoph Haldemann	Switzerland
Vice:	Cheryl Dollard	Canada
Members:	Clara Alarcon	USA
	Elizabeth Bates	Belgium
	Sofia Ben Tahar	France
	Tajinder Grewal	Canada
	Lutz Grohmann	Germany
	David Grothaus	USA
	Mihael Cristin Ichim	Romania
	Andrea Jonitz	Germany
	Benjamin Kaufmann	USA
	Charlotte Leonhardt	Austria
	René Mathis	France
	Enrico Noli	Italy
	Elena Perri	Italy
	Kirk Remund	USA
	Anna Laura Vicario	Argentina
Ruojing Wang	Canada	
Bruno Zaccomer	France	
Guy Van den Eede	Netherlands	

B Publications

B3 Scientific information publications

	Publication title	Proposed finalisation	Collaboration
1	Publication on the GMO PT results. Title not yet available.	2012	Statistics Committee

C Workshops and Seminars

C1 Training and education workshops

	Workshop subject and location	Proposed finalisation	Collaboration
1	Depending on request. It is aimed to have one workshop per year.		Statistics Committee
2	Update of the Information Platform for GM Seed	periodically	

D Proficiency Tests

	Subject	Proposed finalisation	Collaboration
1	PT15: <i>Linum usitatissimum</i> ¹⁾ PT16: <i>Zea mays</i> ¹⁾	2011	ISTA Secretariat, Statistics Committee
2	PT17: <i>Glycine max</i> ¹⁾ PT18: <i>Medicago sativa</i> ¹⁾	2012	ISTA Secretariat, Statistics Committee
3	PT19: <i>Zea mays</i> ¹⁾ PT20: <i>Gossypium hirsutum</i> ¹⁾	2013	ISTA Secretariat, Statistics Committee
	PT21: <i>Beta vulgaris</i> ¹⁾	2014 ²⁾	ISTA Secretariat, Statistics Committee

¹⁾ Detailed and final schedule depend on availability of GM seed for the species and the event.

²⁾ Depending on the availability of the seed material the *Beta vulgaris* round can be also used in place of another one.

**F Special Projects**

	Project title/Subject and collaborating committees	Proposed finalisation	Collaboration
1	Improvement (clarification, simplification) of the PBA document This work will be mainly done by the WG 'Continuation of the accreditation programme (performance based approach)' under the lead of Ana Laura Vicaria.	2010 – 2013	ISTA accreditation department, statistics committee
2	Finalizing the SOP for the administration of the PT program	2011	ISTA Secretariat
3	Periodically adaptation of the SOP for the administration of the PT program	continuous task	ISTA Secretariat
4	Establishment of an audit check list for GMO testing laboratories	2010-2012	ISTA accreditation department
5	Assistance with the new data base	continuous task	ISTA Secretariat

Permanent Tasks:**1.1 Proficiency tests**

WG leader: Cheryl Dollard

Members: Elizabeth Bates, Andrea Jonitz, René Mathis, Bruno Zacommer, Christof Neuhaus, Christoph Haldemann

Finalize the new programme plan (planned PT rounds from 2010-2013)

Incorporate in the PT process that accredited laboratories will receive automatically the MTA for relevant PT rounds, sent out by the ISTA secretariat, even if the laboratory does not respond to the announcement.

Update of protocols for execution of PT – including new SOP for administration and sample preparation.

Co-operation on the enhancement of the GMO Database located at the secretariat

Rating for genetic purity test?

2.1 Accreditation programme (performance-based approach)

WG leader: Ana Laura Vicario

Members: Sofia Ben Tahar, Lutz Grohmann, David Grothaus, Enrico Noli, Elena Perri

Define and document details such as applicability of overall rating, relation between scope of accreditation and test rounds included in an overall rating

Overall rating: How exactly is the proceeding. Is it to compute just for the accredited labs or the labs they want to get accredited?

What means a compulsory/binding participation; valid for accredited laboratories only?

Not to participate in a PT rounds for accredited laboratories results in a BMP rating (like in traditional ISTA PT and as defined in ACC-D-01-Termination, suspension and withdrawal of ISTA Accreditation)

Scope of accreditation: does a PBA-Accreditation (Performance Based Approach) e.g for MON810 gives the accreditation for all maize events?

3.1 Information exchange: workshops

WG leader: Benjamin Kaufman

Members: Clara Alarcon, Cheryl Dollard, Enrico Noli, Bruno Zacommer, Christoph Haldemann

Organization of Workshops for GMO Detection

Evaluate if new/amended documents/tools are required

Explore possibilities for joining forces with other WS providers

4.1 Information exchange: webpage 'Info Platform for GM seed'

WG leader: Charlotte Leonhardt

Members: Clara Alarcon, Tajinder Grewal, Mihael Cristin Ichim, Benjamin Kaufman, Enrico Noli, Ruoqing Wang

Periodical update of the Info Platform



Temporary Tasks:

1.2 Identification of stacked genes

WG leader: Kirk Remund

Members: Bruno Zaccomer, Christoph Haldemann

2.2 Publication of the results of the Proficiency Test

WG leader: Bruno Zaccomer

Members: Elizabeth Bates, Cheryl Dollard, Beni Kaufman, Jean-Louis Laffont, Enrico Noli, Kirk Remund, Christoph Haldemann

2.3 Establishment of an audit check list for GMO testing laboratories

WG leader: Elena Perri

Members: Elizabeth Bates, Sofia Ben Tahar, René Mathis, Ruoqing Wang



MOI - Seed Moisture Committee

Chair:	Craig McGill	New Zealand
Vice:	Jette Nydam	Denmark
Members:	Joseph Ahenda	Kenya
	Olfat H. El Bagoury	Egypt
	Mark A. Bennett	USA
	Matt Daws	United Kingdom
	Gerarda de Boer–Raatgever	Netherlands
	Todd Erickson	USA
	Robert Karrfalt	USA
	Harry Nijenstein	Netherlands
	Takayuki Okuda	Japan
	Sergio Pasquini	Italy
	Maria Angela Tillman	Brazil

A Rules Development

A1 Introduction of New Methods

	Method name/Subject	Proposed finalisation	Collaboration
1	Use of Water Activity for Seed Moisture Determination	2013	FTS, STO

A2 Introduction of New Species

	Species and test	Proposed finalisation	Collaboration
1	<i>Solanum nigrum</i>	2012	STA
2	<i>xFestulolium</i>	2012	STA
3	<i>Passiflora edulis</i> <i>Cleome hassleriana</i> <i>Carica papaya</i> <i>Jatropha curcas</i> (subject to sufficient seed being available)	2013	

A3 Introduction of Rules Changes

	Subject	Proposed finalisation	Collaboration
1	Checking the need for grinding of <i>Gleditsia triacanthos</i> , <i>Albizia julibrissin</i> , <i>Medicago sativa</i> , <i>Lotus corniculatus</i> , <i>Lotus pedunculatus</i> , <i>Trifolium pratense</i> , <i>Trifolium repens</i> , <i>Melilotus</i> spp., <i>Vigna radiata</i>	2013	STA
2	Checking if the 200g TSW in 9.1.5.5 Cutting for tree and shrub species is appropriate and if 10g or 20g of seed rather than 10 intact seeds can be cut.	2012	STA, FTS
3	Tolerance Table Development: Oven-oven for comparison of the same sample in one laboratory Oven-oven for different samples in the same/different laboratories	2013	STA, PTC
4	Changing the grinding requirements for <i>Avena strigosa</i> to fine grinding (subject to finding a test leader)	2012	STA

B Publications

B.1 Publications to accompany the Rules

	Publication title	Proposed finalisation	Collaboration
1	Review and update Handbook on Moisture Determination	2012	Secretariat

**B3 Scientific information publications**

	Publication title	Proposed finalisation	Collaboration
1	Influence of particle size and on moisture determination in maize – Seed Science and Technology	2011	

C Workshops and Seminars**C1 Training and education workshops**

	Workshop subject and location	Proposed finalisation	Collaboration
1	Use of Water Activity in Moisture Determination – Evaluation of Potential – Workshop Cemagref, Montargis, France 13th - 15th October	2010	FTS, STO, FSC, Secretariat
2	Moisture Tetrazolium Vigour Workshop (Proposed), Japan	2011	TZ, VIG, Secretariat
3	Moisture Workshop in Egypt (?)	2012?	?

D Proficiency Tests

	Proficiency Test Subject	Proposed finalisation	Collaboration
1	PT10-3 <i>Vicia faba</i>	2010	PTC
2	PT11-2 <i>Triticum aestivum</i>	2011	PTC
3	PT12-2 <i>Phleum pratense</i>	2012	PTC
4	PT13-3 <i>Brassica napus</i>	2013	PTC

F Special Projects

	Project title/Subject and collaborating committees	Proposed finalisation	Collaboration
1	Development of heat during grinding	2013	ISTA Accreditation Department



NOM - Nomenclature Committee

Chair:	John H. Wiersema	USA
Vice:	Michel Porcher	Australia
Members:	Bernard R. Baum	Canada
	Michel Chauvet	France
	Sandy Dawson	USA
	Axel Diederichsen	Sweden
	Niall Green	United Kingdom
	Karl Hammer	Germany
	Wilbert L.A. Hettterscheid	Netherlands
	Phyllis Himmel	USA
	Charles E. Jarvis	United Kingdom
	Klaus Pistrick	Germany
Kees van Ettehoven	Netherlands	

F Special Projects

	Project title	Proposed finalisation	Progress report 2010-12-30
1	ISTA List of Stabilized Plant Names, ed. 6	2013	A timetable for accomplishing this work in relation to the 2013 ISTA Rules has been coordinated with the Rules Committee. Work on reviewing the current list of stabilized names will begin in spring of 2012, so any amendments to the 2013 Rules can be reported by late summer of 2012. This timetable will also allow us to accommodate into the new Stabilized List any botanical nomenclature decisions arising from the 2011 International Botanical Congress.



PUR - PURITY COMMITTEE

Chair:	Adriel Garay	USA
Vice-Chair:	Jane Taylor	UNITED KINGDOM
Members:	Gerarda De Boer	Netherlands
	Fabio Ferrari	Italy
	Deborah Meyer	USA
	Andreas Ratzenboeck	Austria
	Zita Ripka	Hungary
	Augusto Martinelli	Argentina
	Ruojing Wang	Canada
	Pernilla Andersson	Sweden
	Andrea Jonitz	Germany
	Charan Jeet (CJ) Mehta	India
	Maria Elena Duter	New Zealand
	Myriam Alvisi	Brazil
	Kepha Oganda	Kenya

A Rules Development

A1 Introduction of New Methods

	TCOM: PUR	Method name/Subject	Proposed finalisation	Collaboration
1		Blowing: compare AOSA and ISTA procedures and evaluate the interest of AOSA method Ongoing, Gerarda de Boer leading working group	2013	WG leader: Gerarda de Boer Collaborators: Ruojing Wang and Adriel Garay

A2 Introduction of New Species

	TCOM: PUR	Species and test	Proposed finalisation	Collaboration
1		<i>Solanum nigrum</i> Find adapted PSD Current PSD for <i>Solanum</i> species already in the rules = PSD 10 Can we make proposal to use this PSD without having seed circulated to all Purity committee members?	yyyy	GER MOI WG leader: Deborah Meyer for all 1-5 Collaborators: <i>Kepha Oganda,</i> <i>needs more helpers</i>
2		<i>Cleome gynandra</i> Find adapted PSD Current PSD for <i>Cleome hassleriana</i> already in Rules = PSD10 is <i>Cleome gynandra</i> similar so can apply same PSD?	yyyy	GER MOI
3		<i>Bupleurum rotundifolium</i> Find adapted PSD For <i>Bupleurum rotundifolium</i> suggest we use PSD 15 as all <i>Apiaceae</i> in ISTA rules are under the same PSD 15		GER MOI
4		<i>Passiflora edulis</i> Find adapted PSD		GER MOI
5		<i>Carica papaya</i> Find adapted PSD 2009		GER MOI
		For items 1, 2 & 3, Do we need seed of all the species listed to evaluate for PSD or can we apply current PSD as already used		



<p>for similar species or families?</p> <p>For <i>Passiflora edulis</i> (<i>Passifloraceae</i>) & <i>Carica papaya</i> (<i>Caricaceae</i>) Can the Nomenclature / Purity committee recommend a suitable PSD from looking at images and data information only without seed specimens circulated?</p>		
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A3 Introduction of Rules Changes

TCOM: PUR	Subject	Proposed finalisation	Collaboration
1	<p>Clarification concerning weight precision for OSD Two previous rules proposal were withdrawn.</p> <p>Common practice is to report it as whole figures e.g. 60g not the actual weight e.g. 60.34g</p> <p>The Purity Committee will discuss this issue with the ISTA Auditing team before taking further action.</p>	2013	WG Leader to be assigned
2	<p>Amalgamation of Chapter 11 Chapter 11 need reviewing, at the 2010 ISTA meeting in Cologne, Augusto Martinelli offer to lead this.</p>	2013	WG leader: Augusto Martinelli
3	<p>Improvement of PSD 36 for <i>Panicum</i> <i>Amend the wording of PSD 36 to include attached pedicel</i></p> <p><i>“Spikelet with or without pedicle (of any length), with glumes, lemma and palea, enclosing a caryopsis, plus attached sterile floret”</i></p> <p>Proposal in 2009 was to add ‘attached pedicle’ to the PSD, this needs to be voted on and separate from other discussions re the use of pressure to determine presence of a caryopsis.</p> <p>Possible comparative exercise required to compare ISTA methods for caryopsis presence by pressure with other methods?</p>	2013	WG leader: Jane Taylor
4	<p>Purity method for mixtures The ISTA mixture experiment not yet concluded</p>		
5	<p>Purity of coated seeds (should be considered with number 2 above)</p>		WG leader Augusto Martinelli
6	<p>Clarification of ISTA rules for testing of weighted replicates – additional text required in the Rules to provide cross referencing between chapters 2, 3 and 13</p>		WG leader: Jane Taylor

B Publications

B1 Rules accompanying publications

TCOM: PUR	Publication title	Proposed finalisation	Collaboration
1	PSD Handbook	Completed and printed 2010	WG leader: Steve Jones ISTA Secretariat
2	<p>“Detection of <i>Orobanche</i> spp. Seeds” 2008 Jane Taylor reported on the results of an ISTA wide survey in 2010 need to define validation of wet & dry methods, ISTA suggested that a peer validation only</p>	2013	WG leader: Jane Taylor Collaborators: Steve Jones, Adriel Garay,



	was needed. Jane Taylor to finalise a comparative test plan for approval by the ECOM. Following an ECOM decision a proposal for an Orobanche test has been included in the Rules proposals to be voted on in 2011 that did not require a validation study. Further work will be required for issuing results on an OIC in collaboration with the BSC.		Ruojing Wang
3	"Blower calibration" (following the new procedure) 2010 = guidance instructions to update when AOSA method adopted.	2013	WG leader: Adriel Garay Collaborators: Kepha Oganda, Myriam Alvisi
4	Handbook on Purity 2010 No work started on this	2013	
5	The Universal list of species – This is due for review.	2011/2012	WG leader: Zita Ripka Collaborators: Debbie Meyer, Andrea Jonitz, Kepha Oganda, Pernilla Andersson and Ruojing Wang

B2 Training publications on specific seed testing topics

	TCOM: PUR	Publication title	Proposed finalisation	Collaboration
1		Identification of species of the Universal List Digital images required for the website version of the list.	2013	WG leader: Andrea Jonitz and / or / with Rita Zipka Collaborators: Augusto Martinelli and RuojingWang
2		Handbook on tropical species : seed identification and seed Technology	yyyy	Proposed WG leader: Myriam Alvisi Collaborators: Kepha Oganda. Augusto Martinelli, more members needed

B3 Scientific information publications

	TCOM: PUR	Publication title	Proposed finalisation	Collaboration
1		Development and applications of blowing procedures. The idea is to develop a publication for educational purposes and to assist labs or industry people that may want to understand and use blowing procedures for managing seeds and for testing seeds	2013	WG leader: Adriel Garay Collaborators: Kepha Oganda, Pernilla Andersson, Myriam Alvisi

C Workshops and Seminars**C1 Training and education workshops**

	Workshop subject and location	Proposed	Collaboration
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		finalisation	
1	Purity analysis and training on seed identification Host CFIA, Saskatoon, Canada.	2011	WG leader: R Wang Collaborators: Jane Taylor
2	Workshop on purity testing with emphasis on temperate grass seeds To be organized at Oregon State University, Oregon, USA	2013	WG leader: Adriel Garay Collaborators: Lab staff at OSU



SHC - Seed Health Committee

Chair:	Terry Aveling	South Africa
Vice-Chair:	Valerie Cockerell	United Kingdom
Vice-Chair	Valerie Grimault	France
Members:	Ilaria Alberti	Italy
	Siham Asaad	Syria
	Rouke Bakker	New Zealand
	Reyes Blanco Prieto	Spain
	Stéphan C Brière	Canada
	Harrie Koenraad	Netherlands
	Ronit Kohen	Israel
	Gary Munkvold	USA
	Masatoshi Sato	Japan
	Karin Sperlingsson	Sweden
	Krystyna Tylkowska	Poland
	Sandra Walker	USA

A Rules Development

A1 Introduction of New Methods

	Method name/Subject	Proposed finalisation	Progress report Date: YYYY
1	<i>Xanthomonas hortorum</i> pv. <i>carotae</i> /Daucus carota – Bio-PCR	2011	CT done, report under progress
2	<i>Fusarium</i> spp./ <i>Zea mays</i>	2012	Test plan in progress
3	Tobamo viruses/ <i>Lycopersicon esculentum</i> - bioassay	2011	CT done, report under progress
4	<i>Pseudomonas pisi</i> pv <i>pisi</i>	2011	CT done, report under progress
5	Xcc PCR as alternative to pathogenicity	2011	CT done, report under progress
6	Xcc disinfected seeds	2011	CT done, analysis of results to be done
7	<i>Acidovorax</i> /corn salad grow out	2011	Test Plan reviewed
8	<i>Ustilago nuda</i> new extraction method	2011	Report sent for review to ISTA
9	<i>Pyrenophora</i> spp. on barley, Osmo Method	2011	Report sent for review to ISTA
10	Xcc bio-PCR	TBA	Project
11	Tobamo viruses/pepper - bioassay	TBA	Project
12	<i>Fusarium graminearum</i> , <i>F. lansesthae</i> , <i>F. culmorum</i> and <i>F. cerealis</i>	2013	Development on going.
13	Living <i>Neotyphodium</i> , grass seed	TBA	Project
14	Nematodes on onion seeds	TBA	Project
15	<i>Fusarium circinatum</i> on <i>Pinus</i> – new method	TBA	Project

A3 Introduction of Rules Changes

	Subject	Proposed finalisation	Progress report Date: YYYY
1	<i>Botrytis</i> /sunflower 7-003 –modification to method	2011	Report sent for review to ISTA
2	<i>Leptosphaeria maculans</i> 7-004 –removal of 2,4D	2013	New working group defined
3	3 pathogens <i>Linum</i> sp. 7-007, 017 and 018 –combine to one method	2011	Report sent for review to ISTA
4	Pea, <i>Pisum sativum</i> 7-005, add pathogens	2012	Pretests done, test plan under progress
5	Five year Method reviews	2011-2013	Under review
6	Method 7-026 grow out to confirm ELISA results- addition to method?	>2011	Test plan under progress



B Publications

B2 Training publications on specific seed testing topics

	Publication title	Proposed finalisation	Progress report Date: YYYY
1	Seed Health Handbook	2012	Editing and missing chapters ongoing.

C Workshops and Seminars

C1 Training and education workshops

	Workshop subject and location	Proposed finalisation	Progress report Date: YYYY
1	Seed Health Workshop, Aleppo, Syria	October 2011	Programme under discussion
2	Seed Health Workshop, Almeria, Spain	?2012	TBC
3	Seed Health Symposium, Aleppo, Syria	October 2011	Programme under discussion

C2 Seminars

	Seminar subject and location	Proposed finalisation	Progress report Date: YYYY
1	Statistics for analysis of PT and CT results, France	2011	

D Proficiency Tests

	Proficiency Test Subject	Proposed finalisation	Progress report Date: YYYY
1	Method 7-009 <i>Fusarium moniliforme</i> var. <i>subglutinans</i> (<i>Fusarium circinatum</i>)/ <i>Pinus taeda</i> , <i>Pinus elliotii</i>	2011	
2	Method 7-021 and 23 <i>Xanthomonas axonopodis</i> pv. <i>phaseoli</i> and <i>Pseudomonas savastanoi</i> pv. <i>phaseolicola</i>	2011	
3	<i>Ustilago nuda</i> / <i>Hordeum vulgare</i>	2012	
4	Method 7-019 <i>Xanthomonas campestris</i> pv. <i>campestris</i> / <i>Brassica</i> spp.	2013	
5	Method 7-006 <i>Colletotrichum lindimuthianum</i> / <i>Phaseolus vulgaris</i>	2013	

F Special Projects

	Project title/Subject and collaborating committees	Proposed finalisation	Progress report Date: YYYY
1	Seed health testing sample size questionnaire	2011	Questionnaire done, few answers received, analysis to do
2	Annotated List crop updates	2015	



STA - Statistics Committee

Chair:	Jean-Louis Laffont	France
Vice-Chair:	Kirk Remund	USA
Members:	Julianna Bányai	Hungary
	Julia Barabas	Hungary
	Olfat H. El Bagoury	Egypt
	Mustapha El Yakhlifi	France
	Mohamed Hanafi	France
	Bonnie Hong	USA
	Winfried Jackisch	Germany
	Zivan Karaman	France
	Tim Perez	USA

A Rules Development

A1 Introduction of New Methods

	Method name/Subject	Proposed finalisation	Collaboration
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

A2 Introduction of New Species

	Species and test	Proposed finalisation	Collaboration
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

A3 Introduction of Rules Changes

	Subject	Proposed finalisation	Collaboration
1	Minor changes in section 5.8. of Chapter 5	2011	Germination Committee
2	Rounding procedure before entering in the tables related to the R value test (section 2.9.2.4 of Chapter 2)	2011	Bulking and Sampling Committee

B Publications

B.1 Publications to accompany the Rules

	Publication title	Proposed finalisation	Collaboration
1	Germination Heterogeneity Testing calculator	2011	BSC
2	Tetrazolium tolerances calculator	2011	TEZ
3	Calculation and expression of Germination results calculator	2011	GER
4	Theoretical and practical tools for the analysis of Germination and Tetrazolium Validation Studies	2011	GER
5	Purity tolerances calculator	2012	PUR



C Workshops and Seminars

C1 Training and education workshops

	Workshop subject and location	Proposed finalisation	Collaboration
1	ISTA workshop on Germination, Tetrazolium, Sampling and Statistics - Kenya	2010	Germination Committee and Tetrazolium Committee
2	Upon request, workshops on GMO Testing	2013	GMO Committee

C2 Seminars

	Seminar subject and location	Proposed finalisation	Collaboration
1	ISTA Germination Seminar - Japan	2011	GER
2	9 th ISTA Seminar on Statistics in Seed Testing – Location to be defined	2012	

F Special Projects

	Project title/Subject and collaborating committees	Proposed finalisation	Collaboration
1	Heterogeneity test for Moisture	2011	PTC
2	Development of a rating system for Seed Health Proficiency Tests	2011	SHC
3	Statistical analysis of A-PAGE Comparative test on <i>Triticum</i> spp.	2011	VAR
4	Quantitative rating of GMO Proficiency Tests	2011	GMO
5	R package for quantitative rating of GMO Proficiency Tests	2011	GMO and Secretariat
6	Preparation of a succession plan for the Chair of the STA Committee	2013	



STO - Seed Storage Committee

Chair:	Hugh W. Pritchard	United Kingdom
Vice:	David Mycock	South Africa
Members:	Patricia Berjak & N. Sershen ¹	South Africa
	Oble Neya	Burkina Faso
	Ramni Jamnadass	Kenya
	S. Adesola Ajayi	Nigeria
	Celia de la Cuadra & Isaura Martin ¹	Spain
	Andreas Börner	Germany
	Moctar Sacandé	United Kingdom
	Elena Gonzalez-Benito	Spain
	Isolde Ferraz	Brazil
	Pedro Leon-Lobos	Chile
	Xiang-Yun Yang	China
	Sarah Ashmore	Australia
	Rekha Chaudhury	India

¹ shared responsibility

B Publications

B.1 Publications to accompany the Rules

	Publication title	Proposed finalisation	Collaboration
1	Handbook on Seed Storage	2013	MOI, SHC

B2 Training publications on specific seed testing topics

	Publication title	Proposed finalisation	Collaboration
1	Summary and analysis of questionnaire on seed storage as practiced in ISTA laboratories.	<i>Seed Testing International</i> in 2011	

B3 Scientific information publications

	Publication title	Proposed finalisation	Collaboration
1	Scientific review of 'Rules' species storage response, as reference guide. (Note: Could appear as an Appendix to the Handbook)	2011-12 in SST	
2	Scientific publications: 30 papers/ book chapters	2011-13	

C Workshops and Seminars

C1 Training and education workshops

	Workshop subject and location	Proposed finalisation	Collaboration
1	Water Activity, Montargis, France (Patrick Baldet, Cemargref)	2010	MOI, FTSS
2	Desiccation tolerance workshop, South Africa (Pat Berjak and Sershen)	2012	

F Special (Research) Projects

	Project title/Subject and collaborating committees	Proposed finalisation	Collaboration
1	Focus on characterising seed storage characteristics of 100 'new' species	2011-13	
2	Develop 5 innovations / new technologies (cryopreservation, syn-seeds', thermal fingerprinting, etc) with seeds (or embryos).	2011-13	



	Maximise dry storage potential (including seed health) for seeds of 70 species	2011-13	
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TEZ - Tetrazolium Committee

Chair:	Stefanie Krämer	Germany
Vice:	Karen A. Hill	Australia
Members:	Ignacio Aranciaga	Argentina
	María Belén Aranguren	Argentina
	Valerie Blouin	France
	Sharon Davidson	USA
	Gary Duffy	Ireland
	José B. Franca-Neto	Brazil
	Irena Jumburga	Latvia
	Linda Maile	United Kingdom
	Augusto Martinelli	Argentina
	Sergio Pasquini	Italy
	Anny van Pijlen	Netherlands
	Lindsey Robb	United Kingdom
	Ronald Don	United Kingdom
	Teresita Farras	Uruguay

A Rules Development

A2 Introduction of New Species

	Species and test	Proposed finalisation	Collaboration
1	Tetrazolium test on <i>Larix</i>	2011	FTS
2	Tetrazolium test on <i>Picea</i>	2011	FTS
3	Tetrazolium test on <i>Glycine max</i>	2011	
4	Tetrazolium test on <i>Pennisetum</i>	2012	

A3 Introduction of Rules Changes

	Subject	Proposed finalisation	Collaboration
1	Tetrazolium test on coated seeds included in chapter 6	2010	
2	More precise explanatory notes to Chapter 6	2010	

B Publications

B2 Training publications on specific seed testing topics

	Publication title	Proposed finalisation	Collaboration
1	Reorganise Handbook Tetrazolium	2013?	
2	Revision of the TEZ working sheets	2011	
3	Continue TEZ Working sheets	2011	

C Workshops and Seminars

C1 Training and education workshops

	Workshop subject and location	Proposed finalisation	Collaboration
1	WS on GER, TEZ, Sampling and Statistic in Kenya	November 2010	

Up to now there is no concrete commitment for hosting a TEZ Workshop in the next time. There is a plan to have a WS on TEZ, Moisture and Vigour in Japan before the annual meeting, but I have no further informations at the moment. A request for a Future WS 2012 in Canada in a combination with GER. But I do not think that I can publish this because it is to early.

**D Proficiency Tests**

	Proficiency Test Subject	Proposed finalisation	Collaboration
1	See PT Committee		

F Special Projects

	Project title/Subject and collaborating committees	Proposed finalisation	Collaboration
1	Storage experiment of durability of Tetrazolium solution	2011/2012	



VAR - Variety Committee

Chair:	Berta Killermann	Germany
Vice:	Ana Laura Vicario	Argentina
Members:	Kalyn Brix-Davis	USA
	Wendy Carnegie	Canada
	Emanuela Casarini	Italy
	Chiara Delogu	Italy
	Cheryl Dollard	Canada
	Jerzy Drzewiecki	Poland
	Kae-Kang Hwu	Taiwan*
	Kunusoth Keshavulu	India
	Rainer Knoblauch	Germany
	Michael Lovelace	USA
	Ksenija Taski-Ajdukovic	Serbia
	Eszter Timar	Hungary
	Hedwich Teunissen	Netherlands
	Elisa Vieira	Brazil

*abbreviation for 'Separate Customs Territory of Taiwan, Penghu, Kinmen and Matsu'

A Rules Development

A1 Introduction of New Methods

	Method name/Subject	Proposed finalisation	Collaboration
1	SDS PAGE for the verification of wheat and <i>xTriticosecale</i> varieties	2011	STA, SEC
2	IEF for the verification of wheat	2012 or later	STA, SEC
3	SDS PAGE for the verification of <i>Festuca, Poa, Agrostis</i>	2013 or later	STA, SEC
4	IEF for the verification of the <i>Festuca, Poa, Agrostis</i>	2013 or later	STA, SEC
5	DNA-based approach (for maize and soy)	November 2012	STA, SEC
6	DNA-based methods for the identification of impurities of <i>Lolium multiflorum</i> in <i>Lolium perenne</i>	2010	STA, SEC, AOSA

A2 Introduction of New Species

	Species and test	Proposed finalisation	Collaboration
1	<i>Festuca</i> : Variety verification with electrophoresis	2013 or later	STA, SEC
2	<i>Poa</i> : Variety verification with electrophoresis	2013 or later	STA, SEC
3	<i>Agrostis</i> : Variety verification with electrophoresis	2013 or later	STA, SEC
4	Sunflower: Variety verification with molecular markers	2013 or later	STA, SEC
5	Tomato: Variety verification with molecular markers	2013 or later	STA, SEC
6	Canola: Variety verification with molecular markers	2013 or later	STA, SEC
7	Sugar beet: Variety verification with molecular markers	2013 or later	STA, SEC
8	Sugar cane: Variety verification with molecular markers	2013 or later	STA, SEC
9	Papaya: Variety verification with molecular markers	2013 or later	STA, SEC

A3 Introduction of Rules Changes

	Subject	Proposed finalisation	Collaboration
1	A-PAGE for the verification of <i>Triticum</i> spp.	November 2010	STA, RUL, SEC



B Publications

B.1 Publications to accompany the Rules

	Publication title	Proposed finalisation	Collaboration
1	Handbook on Variety Testing - Electrophoresis Testing	2013 or later	STA, SEC

B3 Scientific information publications

	Publication title	Proposed finalisation	Collaboration
1	Development of an ISTA DNA-Based Approach for Testing Variety Identity (UPOV, BMT/12/16)	2010	STA, SEC
2	Development of an ISTA DNA-Based Approach for Testing Variety Identity (29 th ISTA Congress in Cologne, Germany)	2010	STA, SEC
3	CT developed for A-PAGE	2012	STA

C Workshops and Seminars

C1 Training and education workshops

	Workshop subject and location	Proposed Date	Region
1	Species and Variety Testing - proteinelectrophoresis	June 2010	Germany
2	Species and Variety Testing – electrophoresis and/or DNA based methods and/or conventional methods	2011	??
3	Species and Variety Testing – electrophoresis and/or DNA based methods	June 2012	Netherlands (prior to the Annual Meeting)
4	Species and Variety Testing – electrophoresis and/or DNA based methods and/or conventional methods	2013/2014	Brazil and India are considered

D Proficiency Tests

	Proficiency Test Subject	Proposed finalisation	Collaboration
1	DNA based methods (SSR) - maize	2011	STA, ECOM
2	DNA based methods (SSR) - soybean	2012	STA, ECOM
3	DNA based methods (SSR) - wheat	2012	STA, ECOM
4	DNA based methods (SSR) - rice	2013	STA, ECOM

F Special Projects

	Project title/Subject and collaborating committees	Proposed finalisation	Collaboration
1	Revision of the existing four Handbooks with the aim to have only one handbook in loose-sheet format with 4 –5 chapters	2013 or later	STA, SEC
2	Development of a new chapter: “DNA-based methods” for the Handbook of Variety Testing – versus a guidance document for establishing molecular marker methods for variety identity	2013 or later	STA, SEC, GMO
3	Handling of reference material (RM) for the first PT for testing variety identity with molecular markers	2011	STA, ECOM, GMO
4	Appointment of an accreditation standard (including the PTs) A classical accreditation standard – versus – performance-based approach (PBA), like for GMO testing	2011 or later	STA, ECOM, GMO
5	Collection of methods for Species and Variety Testing by means of working sheets	2011 or later	SEC



G Further Comments

Organisation of the VARCOM at present:

Working Group:	DNA based methods	(leader: Emanuela Casarini)
Working Group:	electrophoresis	(leader: Chiara Delogu)
Working Group:	conventional methods	(leader: Michael Lovelace)

Contact persons

UPOV: Ana Laura Vicario

VARCOM website: Hedwich Teunissen

VARCOM workshops: we are looking for

VARCOM handbooks: we are looking for

Collection of working sheets: Silke Günther (member of the seed testing team Freising)

Permanent guest from UPOV: Raimundo Lavignole

VIG - Vigour Committee

Chair:	Alison Powell	United Kingdom
Vice-Chair:	Hulya Ilbi	Turkey
Members:	Emanuela Casarini	Italy
	Malavika Dadlani	India
	Ibrahim Demir	Turkey
	Dionysia Fasoula	Cyprus
	Carina Gallo	Argentina
	Bob Elliott	Canada
	Mohammad Khajeh Hosseini	Iran
	Tim Loeffler	USA
	Gillian McLaren	United Kingdom
	Stan Matthews	United Kingdom
	Marie-Hélène Wagner	France
	Yan Rong Wang	China

A Rules Development

A1 Introduction of New Methods

	Method name/Subject	Proposed finalisation	Collaboration
1	Tetrazolium staining as a vigour test for <i>Glycine max</i>	2013	TEZ

A2 Introduction of New Species

	Species and test	Proposed finalisation	Collaboration
1	Radicle emergence test: addition of cotton; comparative test	2012	
2	Radicle emergence test: addition of onion; comparative test	2012	
3	Radicle emergence test: addition of oilseed rape; comparative test	2012	
4	Radicle emergence test: addition of viola; comparative test	2013	
5	Accelerated ageing test: addition of cereals; comparative test	2012	
6	Conductivity test: addition of chickpea (<i>Cicer arietinum</i>); comparative test.	2012	
7	Conductivity test: addition of cowpea (<i>Vigna unguiculata</i>); comparative test.	2012	

A3 Introduction of Rules Changes

	Subject	Proposed finalisation	Collaboration
1	Radicle emergence test for <i>Zea mays</i>	2011	
2	Addition of cotton to Radicle emergence vigour test	2013	
3	Addition of onion to Radicle emergence vigour test	2013	
4	Addition of oilseed rape to Radicle emergence vigour test	2013	
5	Addition of cereals to Accelerated ageing test	2013	
6	Addition of chickpea (<i>Cicer arietinum</i>) to Conductivity test	2013	
7	Addition of cowpea (<i>Vigna unguiculata</i>) to Conductivity test	2013	



B Publications

B1 Rules accompanying publications

	Publication title	Proposed finalisation	Collaboration
1	Vigour test handbook	2014	

B3 Scientific information publications

	Publication title	Proposed finalisation	Collaboration
1	Publications will be based on research and special projects.	Depends on progress of research	

C Workshops and Seminars

C1 Training and education workshops

	Workshop subject and location	Proposed finalisation	Collaboration
1	Vigour tests in general, Japan	2011	MOI, TEZ
2	Vigour tests in general, Canada	2012	

D Proficiency Tests

	Proficiency Test Subject	Proposed finalisation	Collaboration
1	Conductivity test	2013	PT

F Special Projects

	Project title/Subject and collaborating committees	Proposed finalisation	Collaboration
1	Reducing test time in the CD test: three projects	Depends on progress of research	
2	Vigour tests for <i>Elymus</i> species	Depends on progress of research	
3	Biotinylated proteins as quality markers in oilseeds	Depends on progress of research	
4	Cell cycle and DNA degradation: relation to vigour	Depends on progress of research	



EB-SST - Editorial Board of Seed Science and Technology

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 production, sampling testing, storing, processing and distribution. SST is published in three issues per volume and year with approximately 800 pages

Edited by A.A. Powell (Chief Editor), C. Bailly, M.A. Bennett, C.C. Block, A. Dell'Aquila, I. Demir, B. Hamman, F. Hay, J. Marcos-Filho, A. Marshall, D. Mycock, Z. Procházková, M. Sacandé, N.W. Schaad, M. Sussman and C.B. Wood.



RUL - Rules Committee

Chair:	Steve Jones	Canada
Vice-chair:	Craig R. McGill	New Zealand
Members:	Theresa A.S. Aveling	South Africa
	Sylvie Ducournau	France
	Adriel Garay	USA
	Fabio Gorian	Italy
	Christoph Haldemann	Switzerland
	Berta Killermann	Germany
	Stefanie Krämer	Germany
	Jean-Louis Laffont	France
	Günter Müller	Germany
	Leena Pietilä	Finland
	Alison A. Powell	United Kingdom
	Hugh W. Pritchard	United Kingdom
	Bert van Duijn	Netherlands
	John H. Wiersema	USA
Rita Zecchinelli	Italy	

The Rules Committee is responsible for publishing the ISTA Rules.

One of the main tasks is to edit all the rules proposals and decided whether they are technically sound on a formal basis and on a content basis by statement of the relevant ISTA Technical Committee. To find compromises on technical questions when differences in the opinions are arising between committees.

The chairman of the Committee is presenting the rules proposals during the Annual meetings and congresses to the ISTA Membership and the voting Governments.



PTC - Proficiency Test Committee

Chair:	Günter Müller	Germany
Vice-chair:	Didier Demilly	France
Members:	Sharon Davidson	USA
	Timothy J. Gutormson	USA
	Mari Jürman	Estland
	Sinikka Köylijärvi	Finnland
	Gillian McLaren	United Kingdom
	Takayuki Okuda	Japan
	Zita Ripka	Hungary
	Håkon Tangerås	Norway
	Benno Voit	Germany
	Ruojing Wang	Canada
	Gisela Wustmann	Germany
	Silvia Zanetti	Switzerland
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 there areas on a non-regular basis.

2011 - 2013 ISTA PROFICIENCY TEST PROGRAMME PLAN- LIST OF SPECIES AND TESTS BY ROUND

Round #	Dispatch Date	Crop group	Species	Test round scope*
11-1 H.ann	February 2011	5	<i>Helianthus annuus</i>	PUR, OSD, GER
11-1 L.odo	February 2011	8	<i>Lathyrus odoratus</i>	GER
11-2 T.aes	June 2011	2	<i>Triticum aestivum</i>	PUR, OSD, GER, MOI, TEZ, OIC
11-3 T.pra	October 2011	3	<i>Trifolium pratense</i>	PUR, OSD, GER
12-1 S.bic	February 2012	2	<i>Sorghum bicolor</i>	PUR, OSD, GER, TEZ
12-2 P.pra	June 2012	1	<i>Phleum pratense</i>	PUR, OSD, GER, MOI
12-2 P.sat	June 2012	4	<i>Pisum sativum</i>	VIG
12-3 L.sat	October 2012	6	<i>Lactuca sativa</i>	PUR, OSD, GER, OIC
13-1 P.can	February 2013	1	<i>Phalaris canariensis</i>	PUR, OSD, GER, OIC
13-2 P.sat	June 2013	4	<i>Pisum sativum</i>	GER
13-3 B.nap	October 2013	5	<i>Brassica napus</i>	PUR, OSD, GER, MOI, TEZ

*PUR=Purity, OSD=Other Seed Determination, GER=Germination, MOI=Moisture, TEZ=Tetrazolium, OIC= reporting on an Orange International Seed Lot Certificate, VIG=Vigour

6 Recommend publications that needs to be removed from the ISTA publications list