

**Working Programme of the ISTA
Flower Seed Testing Committee
2004-2007**

ACTIVITY REPORT 2006-2007 Zita Ripka



ISTA FSC Committee members 2004-2007

Chair:	1. Mrs. Zita Ripka	HU-Hungary
Vice-chairperson:	2. Ms Rita Zecchinelli	IT-Italy
Members:	3. Ms Lea Mazor	IL-Israel
	4. Mrs. Sharon K. Davidson	US-United
	5. Mrs. Sylvie Ducournau	FR-France
	6. Ms. Linda Maile	UK-United
	7. Mr. Frikkie A. Marais	ZA-South Africa
	8. Prof. Miller B. McDonald	US-United
	9. Mrs. Aleta Meyr	US-United
	10. Ms Mirjana Milosevic	YU-Serbia
	11. Mrs. Petra Remeus	NL-Netherlands
	12. Ms. Marcia Taylor	AU-Australia
	13. Prof. Dr. Wen-shi Wu	TW-Taiwan
	14. David Tay	US-United
	15. Ms. DaNell R. Jamieson	US –United
	16. <i>Ms. Gyöngyi Ivanovics</i>	<i>HU-Hungary</i>

WORKING PROGRAMME OF THE FLOWER SEED TESTING COMMITTEE 2004-2007

A RULES DEVELOPMENT

A.1-3 Introduction of New Methods, Species, Rules Changes

B PUBLICATIONS

B.1 Rules accompanying publications

B.2 Training publications on specific seed testing topics

B.3 Scientific information publications

C WORKSHOPS AND SEMINARS

C.1 Training and education workshops

C.2 Seminars

D PROFICIENCY TESTS

E SPECIAL PROJECTS

WP A – RULES DEVELOPMENT

A.1 Introduction of New Methods

A.2 Introduction of New Species

To provide and introduce laboratory seed testing methods for new species which are tested in the laboratories but not included in the ISTA Rules is a general aim of the committee.

Catharanthus roseus and *Eustoma grandiflorum* the species that are on the future list

A.3 Introduction of Rules Changes

Parallel with the preparation of the handbook work sheets.

A.3 Introduction of Rules Changes

Species	1000 seed weight from FSC survey (g)	Average weight (g)	Average weight x 2.5 (g) (2,500 seeds)	ISTA sample weight for purity (g)	Suggested changes to purity weight (g)	Suggested changes to submitted sample weight (g)
<i>Centaurea macrocephala</i>	14.8	14.8	37	10	40	Increase to 100 from 40
<i>Coreopsis maritima</i>	1.9	1.9	4.75	1	5	Increase from 5 to 20
<i>Rudbeckia hirta</i>	0.58	0.58	1.45	1	1.5	Leave at 5
<i>Viola odorata</i>	3.4	3.4	8.5	3	9	Increase from 10 to 40

Need for more supporting data!



postponed

Ageratum houstonianum

Coreopsis basalis

Dahlia pinnata

Dianthus caryophyllus

Tagetes spp.

Aster alpinus

Coreopsis lanceolata

Gaillardia aristata

Dianthus chinensis

Zinnia elegans

Bellis perennis

Coreopsis tinctoria

Gaillardia pulchella

Dianthus deltoides

Zinnia haageana

Calendula officinalis

Cosmos bipinnatus

Gazania rigens

Dianthus plumarius

Impatiens balsamina

Callistephus chinensis

Cosmos sulphureus

Helichrysum bracteatum

Cyclamen persicum

Viola tricolor

Centaurea cyanus

Impatiens walleriana

Petunia x hybrida

Dianthus barbatus

Viola cornuta

To be leaved unchanged



WP B -PUBLICATIONS

B.1 Rules accompanying publications

Preparation of the first ISTA Handbook on Flower Seed Testing

B.2 Training publications on specific seed testing topics

B.3 Scientific information publications

Wen-Shi Wu, Y.L.Li and H.C.Wu: Seed-borne fungi on ornamental flower plants, *Australasian Plant Pathology*, 2006,35,373-375

WP B1 -HANDBOOK

Participation in the work:

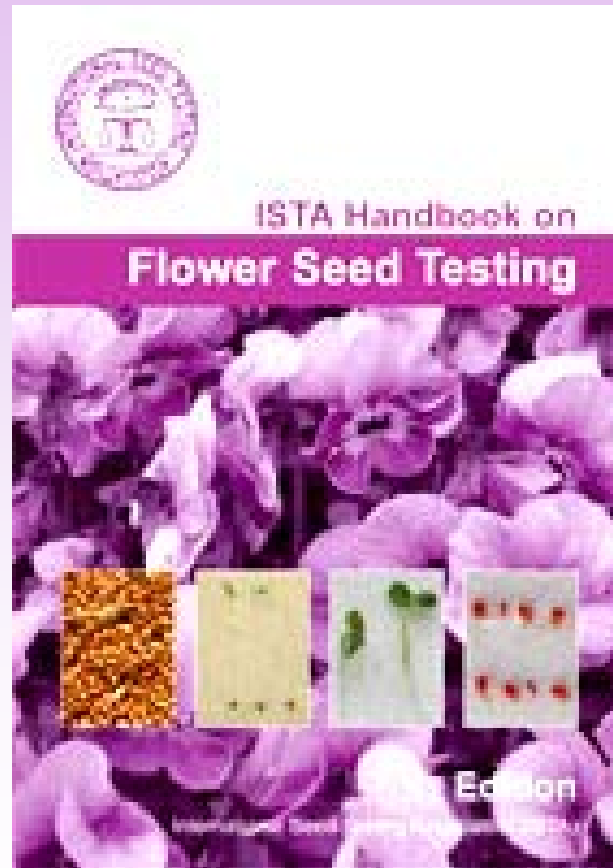
- 1. FSC members -data**
- 2. Chair –draft**
- 3. FSC members –discussion, acceptance**
- 4. ISTA Committee Chairs –comments, acceptance**
- 5. ISTA Secretariat -issue**

WP B1 - HANDBOOK

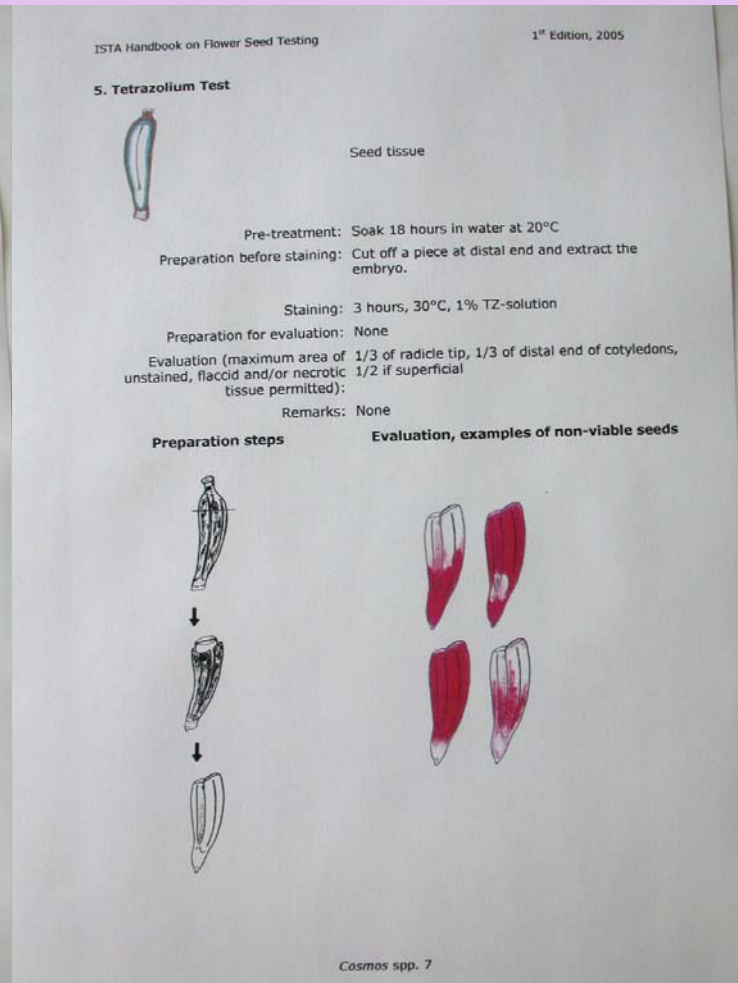
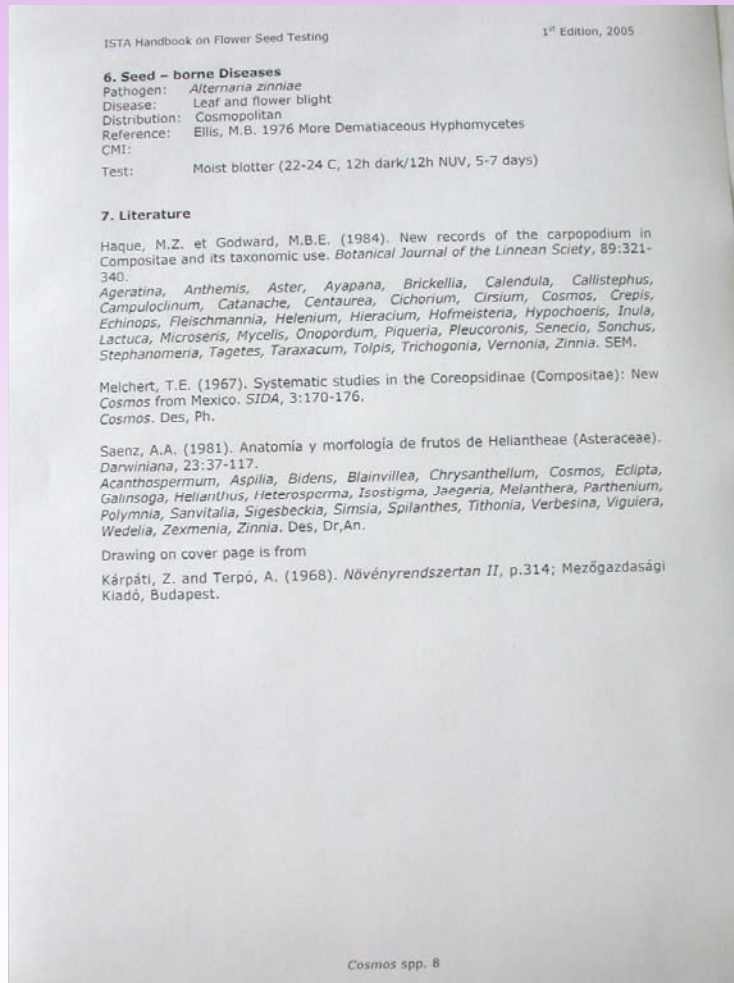
Aims during the preparation of a work sheet:

- 1. Determine if the present methods are correct**
- 2. Detect points where changes are needed**
- 3. Proposal for changes**
- 4. Provide useful tools for seed analysts**

WP B1 -HANDBOOK



WP B1 -HANDBOOK



WP B1 - HANDBOOK

GENERAL PART

Introduction

Apparatus

WORK SHEETS

Glossary

Reference

WP B1 - HANDBOOK

Accepted work sheets in the first 3 years of the work (2001-2004) :

Asteraceae: <i>Calendula, Gaillardia, Tagetes</i>	2001
Balsaminaceae: <i>Impatiens</i>	2001
Caryophyllaceae: <i>Dianthus</i>	2001
Violaceae: <i>Viola</i>	2001
Primulaceae: <i>Cyclamen</i>	2002
Solanaceae: <i>Petunia</i>	2002
Asteraceae: <i>Ageratum, Callistephus, Coreopsis,</i> <i>Cosmos, Gazania, Dahlia, Zinnia</i>	2004
Asteraceae: <i>Aster, Bellis, Centaurea,</i> <i>Helichrysum, Rudbeckia</i>	2005

WP B1 - HANDBOOK

Accepted work sheets in the second 3 years of the work (2004-2007) :

Asteraceae: <i>Cosmos, Gazania, Dahlia, Zinnia</i>	2004
Asteraceae: <i>Aster, Bellis, Centaurea, Helichrysum, Rudbeckia</i>	2005
Scrophulariaceae: <i>Antirrhinum</i>	2006
Amaranthaceae: <i>Celosia</i>	2006
Lamiaceae: <i>Salvia</i>	2006
Acanthaceae: <i>Thunbergia</i>	2006
Verbenaceae: <i>Verbena</i>	2006

WP B1 - HANDBOOK

Draft work sheets in 2007:

Caryophyllaceae: *Gypsophila*

Portulacaceae: *Portulaca*

Tropaeolaceae: *Tropaeolum*,

Papaveraceae: *Eschscholzia*

WP C – WORKSHOPS AND SEMINARS

C.1 Training and education workshops

Flower Seed Testing Workshop was advertised
-presently under organization

Tavazzano, Italy 5-8 June, 2007

C.2 Seminars

Not planned.

ISTA ENSE Flower Seed Testing Workshop

5th-8th June 2007
Tavazzano (LO) - Italy

ACTIVITIES



Preliminary Ring Test: *Callistephus* sp - 2 samples - PUR/GERM

Lectures:

Purity Test, Germination Test, TZ test on Flower Species
QA in Flower Seed Testing

Lecturers:

Zita Ripka, Maria Rosaria Mannino, Sylvie Ducournau, Stefanie Kramer,
Rita Zecchinelli

Practical works:

Purity Test: *Viola*, *Dahlia*, *Centaurea*, seed mixtures
Germination Test: *Campanula*, *Dahlia*, *Centaurea*
TZ Test: *Callistephus*, *Dahlia*, *Helianthus*



PARTICIPATION STILL POSSIBLE!

WP D – PROFICIENCY TESTS

From 2004. flower seed testing was introduced to the ISTA proficiency test rounds: one in every three-year programme

**Proficiency test was organized in 2005:
Zinnia -germination test**

WP D - PROFICIENCY TESTS:

1st PROFICIENCY TEST ON FLOWER SPECIES

- Species: *Zinnia* sp
- Round: 05/1
- Kind of test: only Germination
- Time: February, 2005
- Test leader: R. Zecchinelli (Italy)

Zinnia elegans seeds

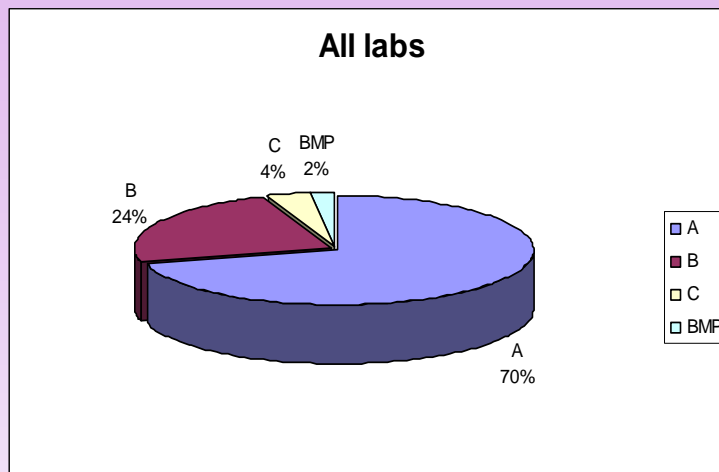
- N° applicants: 56 labs
- Results from: 55 labs
- Accredited: 46
- Volunteer: 9



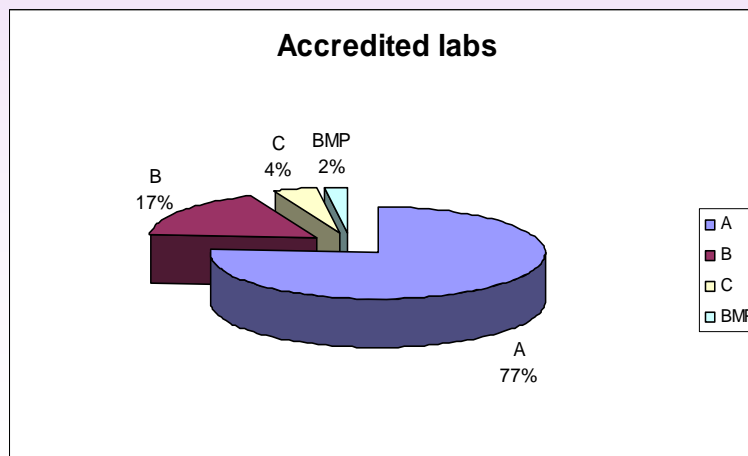
1st PROFICIENCY TEST ON FLOWER SPECIES:

Results

Rating	N° Lab	%
A	39	70
B	13	24
C	2	4
BMP	1	2
Tot	55	100



Rating	N° Lab	%
A	35	77
B	8	17
C	2	4
BMP	1	2
Tot	46	100



ACTIVITY OF FSC MEMBERS IN 2004-2007

Year		2004	2005	2006	2006	2007
Member		HB 6	HB5	WS	HB5	WS
EUROPE	S.D.	xx	xx		xxx	xx
	R.Z.	x	xx	xxx	xx	xxx
	P.R.		xx			x
	M.M.					
	L.M.					
	Gy.I.	xx	xx		xx	-
ASIA	L.M.				xxx	
	Dr A.	xx				
	W.W.	xx	xx		xxx	
AFR.	F.M.	xx			x	
AMERICA	A.M.	x				
	Sh.D.	x	xx		xx	
	M.M.					
	D.T.					
	D.J.			-	-	-
AUS.	M.T.		-	-	-	-

HB: handbook work sheets, WS: workshop preparation

REQUEST LIST

The Committee has been involved in technical questions raised by ISTA Members and non-members:

Validation study for 6 species: *Primula veris*,
Chenopodium album, *Vicia cracca*,
Leucanthemum vulgare, *Hypochaeris radicata*
and *Achillea millefolium*

The main organizer of this study was a Scottish company and the ISTA Germination Committee.

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	5. Mrs. Sylvie Ducournau	FR-France	
	6. Ms. Linda Maile	UK-United	2007
	7. Mr. Frikkie A. Marais	ZA-South Africa	
	8. Prof. Miller B. McDonald	US-United	
	9. Mrs. Aleta Meyr	US-United	
	10. Ms Mirjana Milosevic	YU-Serbia	2007
	11. Mrs. Petra Remeeus	NL-Netherlands	
	12. Ms. Marcia Taylor	AU-Australia	2005
	13. Prof. Dr. Wen-shi Wu	TW-Taiwan	
	14. David Tay	US-United	
	15. Ms. DaNell R. Jamieson	US –United	2006
<i>WG member</i>	16. <i>Ms. Gyöngyi Ivanovics</i>	<i>HU-Hungary</i>	<i>2006</i>

FUTURE

Continue Handbook with work sheets of:

*Begonia, Delphinium, Dimorphoteca, Limonium,
Matthiola, Pelargonium, Primula*

Publication of workshop proceedings

Workshop ???

FUTURE

2nd Proficiency Test on Flower Species:



Portulaca grandiflora

SPECIES: *Portulaca grandiflora*

ROUND: 08/2

KIND OF TEST: Purity, Germination

TIME: June, 2008

TEST LEADER: Zita Ripka (Hungary)





Thank you!