



# PTC report 2022 - 2023

Presenter:  
Location:  
Date:

Didier Demilly, PTC Chair  
Verona Italy – May 30th 2023 ,

## **PTC Members / PT Leaders**

Didier Demilly (chair) - FR

Sharon Davidson (vice chair) - USA

Susanne Andersen - DK

Sarah Dammen - USA

Leanne Duncan – CA

Irena Gera – PL

Monika Holubicová - SK

Gillian Musgrove - UK

Sergio Pasquini - IT

Zita Ripka - HU

Elena Perri – IT

Branislava Opra (observer)

## **New Members**

Claudia Falch - ZA

Mihaela Gheorghe - RO

## **ISTA Secretariat,**

Branislava Opra Standard PT  
coordinator,

Stella Marcu PT administrator,

Florina Palada, Head of accreditation  
and technical department

## **TCOM relationships**

Collaboration exchanges (programme plan,  
follow up actions, questions, etc)

# PT Program 2023 -2025



Round	Species	Test round scope	Crop group	Crop group	PT Leader
PT23-1	<i>Vicia sativa</i>	PUR, OSD, GER	4	Pulses	Monica Holubicova
PT23-2	<i>Raphanus sativus</i>	PUR, OSD, GER, MOI, VIG (conductivity test), OIC	5 (and 6)	Other agricultural crops and vegetable	Gillian Musgrove
PT23-3	<i>Trifolium hybridum</i>	PUR, OSD, GER, TSW	3	Small legumes	Susanne Anderson
PT24-1	<i>Triticum aestivum</i> subsp. <i>aestivum</i>	PUR, OSD, GER, MOI, TZ, VIG (radicle emergence), TSW, OIC	2	Cereals	Sarah Dammen
PT24-2	<i>Alcea rosea</i>	GER	8	Flowers	Irena Gera
PT24-2	<i>Arachis hypogaea</i>	GER	4	Pulses	Claudia Falch
PT24-3	<i>Bromus inermis</i>	PUR, OSD, GER, TZ	1	Grasses	Mihaela Gheorghe
PT24-3	<i>Coriandrum sativum</i>	GER	6	Vegetables	Sharon Davidson
PT25-1	<i>Beta vulgaris</i> * (pelleted seeds)	GER, OIC	5	Other agricultural crops	to be determined
PT25-1	<i>Lactuca sativa</i>	PUR, OSD, GER	6	Vegetables	Leanne Duncan
PT25-2	<i>Oryza sativa</i>	PUR, OSD, GER, TZ, TSW OIC	2	Cereals	Elena Perri
PT25-3	<i>Pinus sylvestris</i>	GER, MOI, TZ	7	Forest	Sergio Pasquini
PT25-3	<i>Chenopodium quinoa</i>	GER	5 (and 6)	Other agricultural crops and vegetables	Didier Demilly

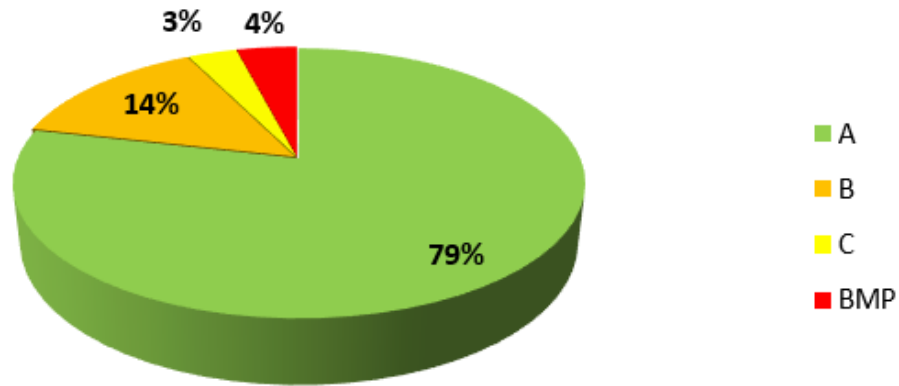
# 2022 Key data

Round	PT leader	Species	Test round scope	Heterogeneity tests	Number of samples	Number of participants	Reports by ISTA secretariat
21-2		<i>Alnus glutinosa</i>	G			85	170
21-3		<i>Fagopyrum esculentum</i>	P, OSD, G, TSW			200	400
22-1	Elena Perri	<b><i>Glycine max</i></b>	G	3	3 x 240	187	374
		MIX for training	Purity Committee		200		
22-2	Sharon Davidson	<b><i>Spinacia oleracea</i></b>	P, OSD, G	6	3 x 220	180	360
22-3	Christian Boehm	<b><i>Lolium perenne</i></b>	P, OSD, G, TZ, OIC	9	3 x 220	178	In 2023
<b>Total 2022</b>	3 PT leaders		9 statistical analysis in 2022	<b>18</b>	<b>2 240</b>	545 participations	1304 individual reports ; 4 summary reports

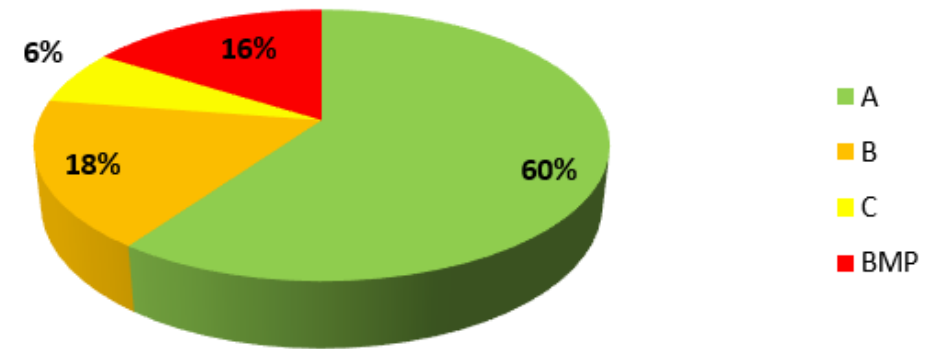
# Noticeable results



**Accredited labs  
(933 participations)**



**Voluntary participants  
(585 participations)**



Laboratories rating for all tests and all participations published in 2022

More results : On the website

ISTA Seed Quality Assurance  
 About ISTA Tools Documents Contact

Accreditation Membership Technical Committees **Proficiency Tests** Publications Events Bookstore

Home / Proficiency Tests / Standard PT Results

- Standard PT Results
- GMO PT Results
- Seed Health PT Results

### Standard PT

The first comparative test system organised by ISTA with the aim to estimate the technical competence of member laboratories and prepare them for ISTA accreditation. It includes traditional tests, the most common in the seed world, such as purity, other seed determination, germination, moisture, and viability tests

[Learn more](#)

### Rounds and Results

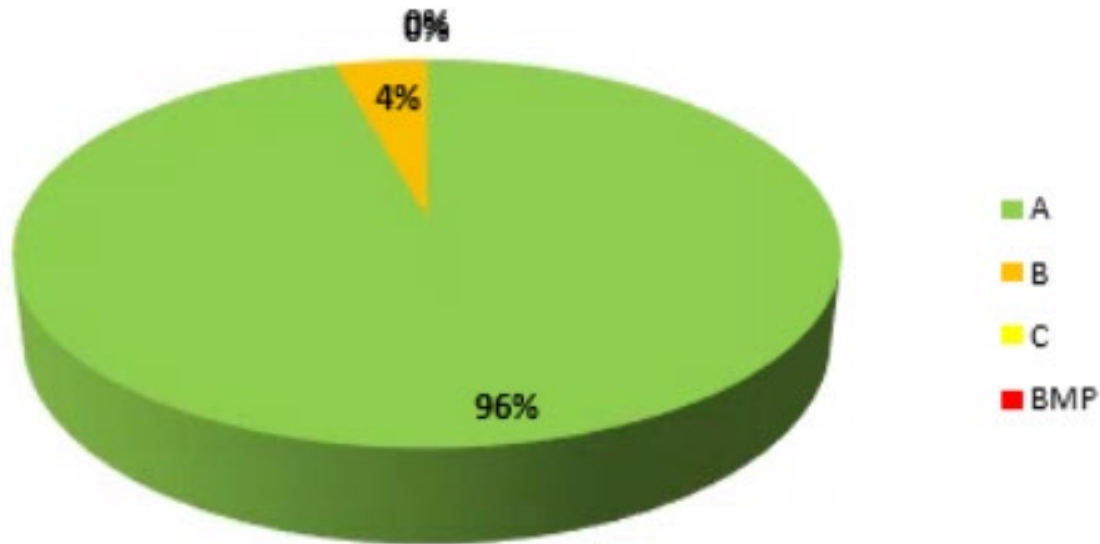
For each PT round, the testing instruction is first released, followed by the heterogeneity result and summary report

- PT22-1 Glycine max instruction
- PT 21-3 Fagopyrum esculentum heterogeneity results and summary report

# Noticeable result : PT22-3 *Lolium perenne* OSD



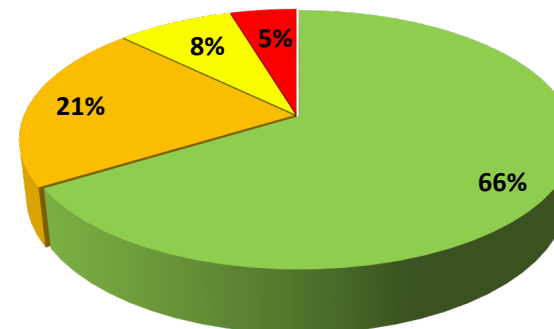
**Accredited labs (93)**



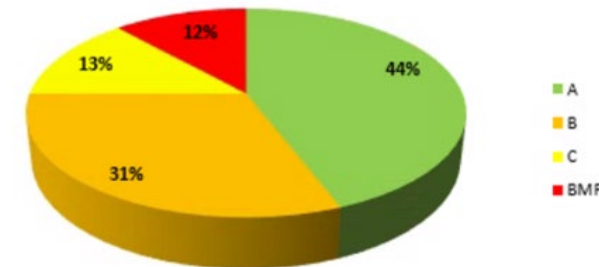
For the 3rd time in the data base (42 OSD PTs)  
 And for the 1st time for grasses  
**PT22-3 *Lolium perenne* : A+B Rating is 100% for accredited labs (only 75% for non accredited labs)**

In-round rating	Percentage of retrieved and identified seeds
A	≥ 90.0
B	≥ 80.0
C	≥ 70.0
BMP	< 70.0

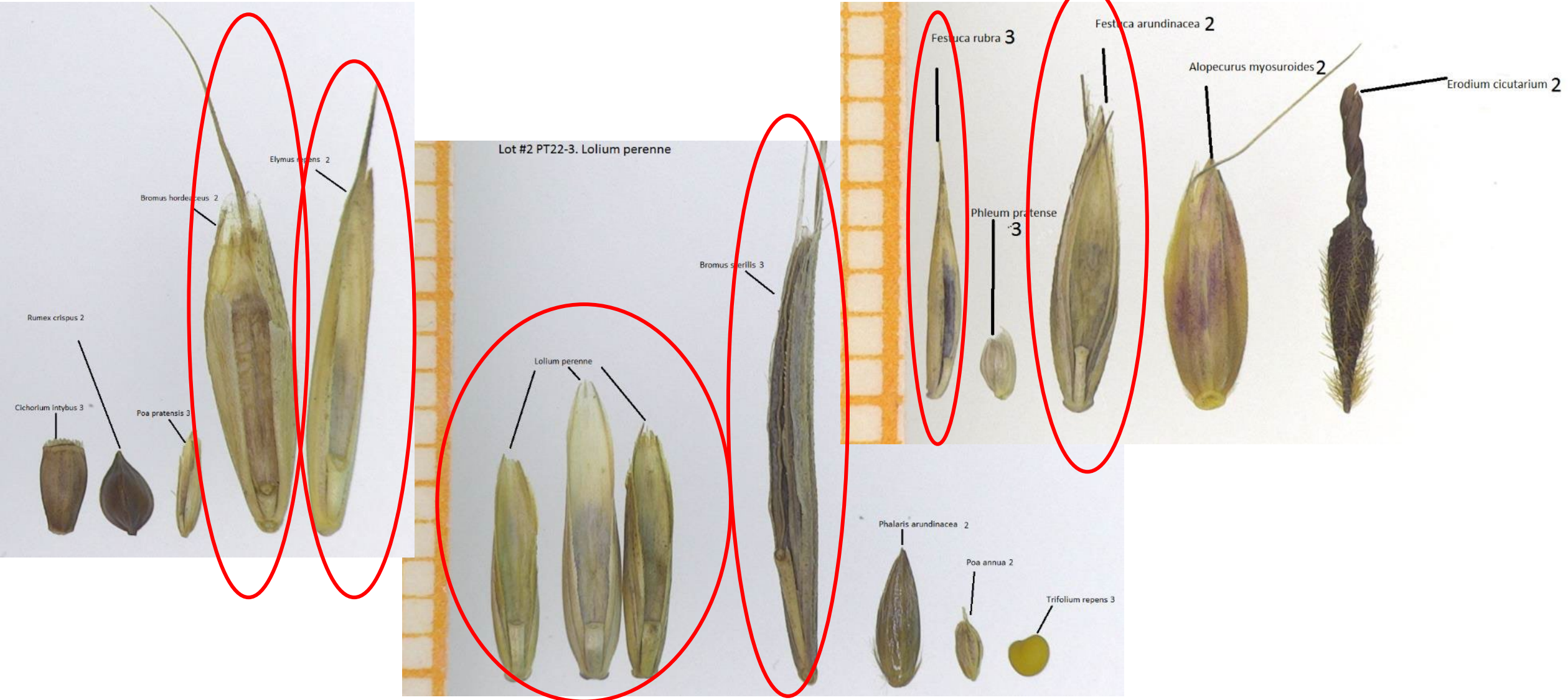
**Accredited labs (88)  
PT17-3 *Lolium perenne***



**Voluntary participants (68)  
PT22-3 *Lolium perenne***



# Noticeable results : PT22-3 *Lolium perenne* OSD



# Noticeable results : PT22-3 *Lolium perenne* OSD

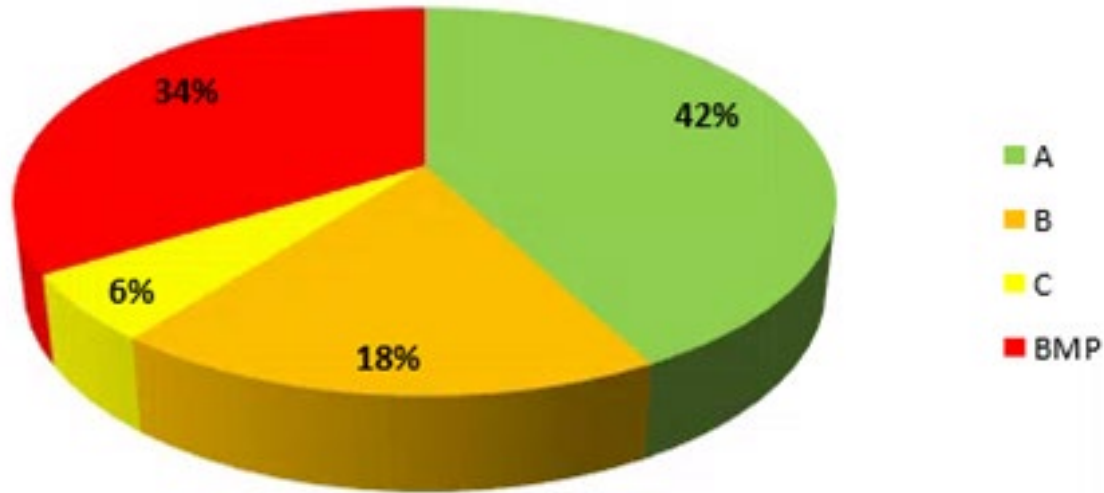
All laboratories (%)	PT17-1 <i>Festuca arundinacea</i> 138 labs	PT17-3 <i>Lolium perenne</i> 136 labs	PT20-3 <i>Festuca pratensis</i> 149 labs	PT22-3 <i>Lolium perenne</i> 161 labs
<i>Festuca arundinacea</i>		40.0		52.0
<i>Festuca rubra</i>		69.1		59.4
<i>Elymus repens</i> *	66.7 ( <i>Elytrigia rep.</i> )		38.6	66.3
<i>Bromus</i>	<i>B. diandrus</i> 93.5	<i>B. sterilis</i> 89.2		<i>B. Sterilis</i> 90.1 <i>B. Hordeaceus</i> 83.7
Accredited laboratories (%)	<i>Elytrigia repens</i> in PT17-1 <i>Festuca arundinacea</i> 92 labs	PT17-3 <i>Lolium perenne</i>	<i>Elymus repens</i> in PT20-3 <i>Festuca pratensis</i> 92 labs	<i>Elymus repens</i> in PT22-3 <i>Lolium perenne</i> 96 labs
All seeds identified	63 (3 seeds)		36 (2 seeds)	82 (2 seeds)
Partial identification	12 (1or 2 seeds)		25 (1 seed or wrong lot)	6 (1 seed)
Wrong genus	13 ( <i>Elymus</i> )		3 ( <i>Elytrigia</i> )	2 ( <i>Elytrigia</i> )
Not reported	12		36	10



# Noticeable result : PT22-2 *Spinacia oleracea* GER



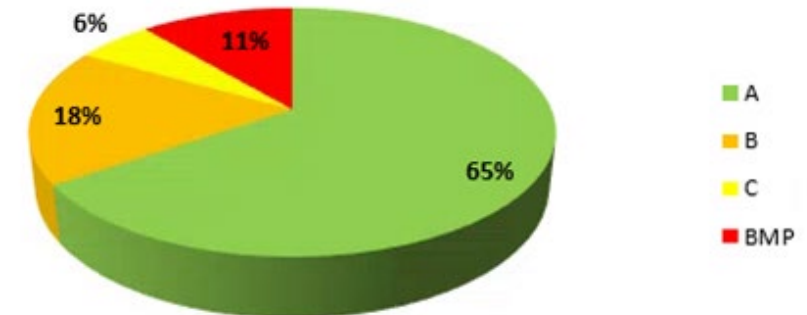
## Voluntary participants (71)



**2nd worse A+B Rating for voluntary participants = 61% (from 42 GER PT in the database)**

**Note:** there is indication that this species requires moderate humidity of substrate for good germination; too moist substrate jeopardizes the germination process.

## Accredited labs (107)



## 2003 – 2023 : twentieth anniversary of the PTC previously the referee committee

- The referee/ proficiency test programme was initiated by Sandy Ednie (chair of Referee Test Committee 1989-2001)
- On January, 1<sup>st</sup>, 2003 the Referee Test Committee became the Proficiency Test Committee under Doug Ashton chair (Chair from 2001 to 2003)
- Günter Müller (chair from 2003 to 2017) implemented and improved the programme

2004-2024 : twenty years of proficiency tests in the current ISTA data base :

Registration started in

2004 for OSD, TZ, MOI and VIG ;

2008 for PUR and

2011 for GER

Total of 150 Pts/analysis in the database.

Thanks to Martina Rösch, Ana Maria Vazquez, Michael Kruze, Rasha El Khadem, Branislava Opra and Stella Marcu

# Thanks

- Many thanks to PTC members/PT leaders, ISTA secretariat & Technical committees
- Welcome to Claudia Falch ZA and Mihaela Gheorghe RO



# Special thanks



Christian Boehm – DK

- PTC member from 2017 to 2023
- PT Leader for PT17-2 *Trifolium repens* PT22-3 *Lolium perenne*.

# Special thanks

Zita Ripka – HU

- member from 2008 to 2023
- PT leader for 5PTs on flowers :  
*Portulaca grandiflora*, *Lathyrus odoratus*, *Challistephus chinensis*  
*Gypsophila elegans*, *Felicia sp.*

 INTERNATIONAL SEED TESTING ASSOCIATION (ISTA)  
[www.seedtest.org](http://www.seedtest.org)

**PT 08-2 *Portulaca grandiflora***



- Test leader:  
Zita Ripka
- Country:  
Hungary
- Participants:  
88 labs  
37 volunteers  
51 accredited





Thank you!

Follow us on social media:

