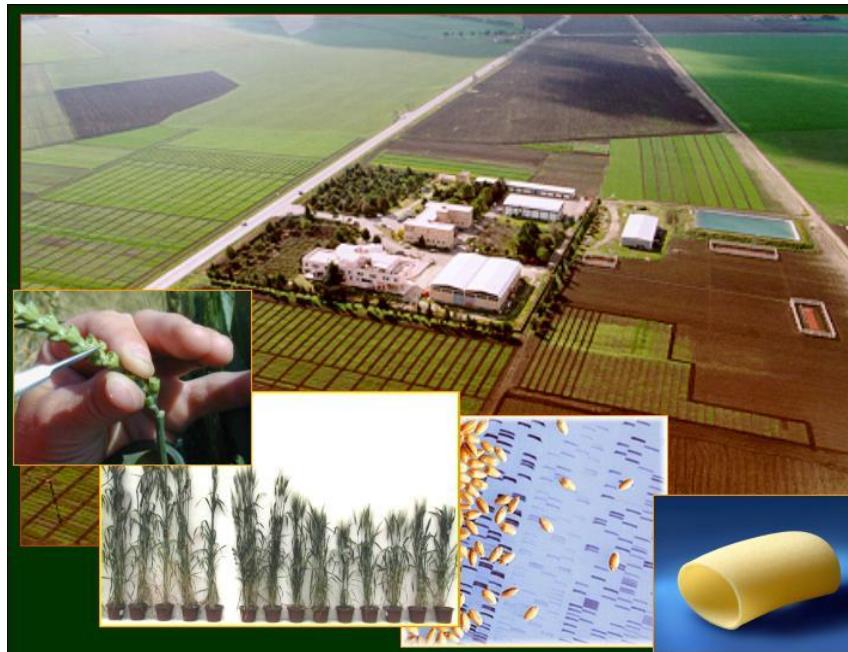


Agata Rascio

**CREA-CI Centro di Ricerca per la Cerealicoltura e le Colture
Industriali
Foggia - Italy**



TRAINING ON IDENTIFICATION OF BOTANICAL VARIETIES IN TRITICUM SPECIES
Piešťany, Slovakia, 17– 19th September 2019



12 RESEARCH CENTERS

1900 RESEARCHERS AND TECHNOLOGISTS

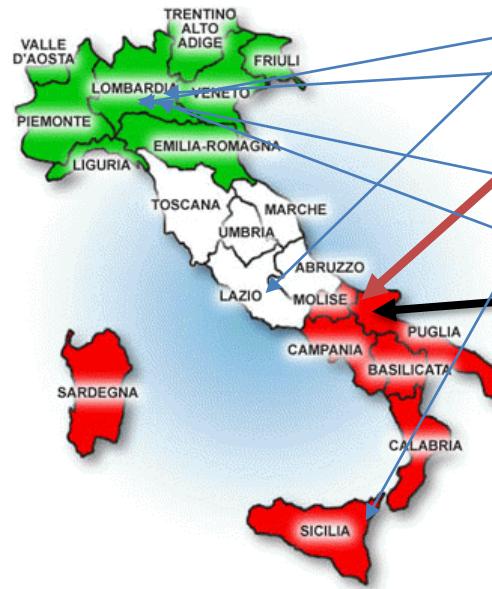
60 EXPERIMENTAL FARMS



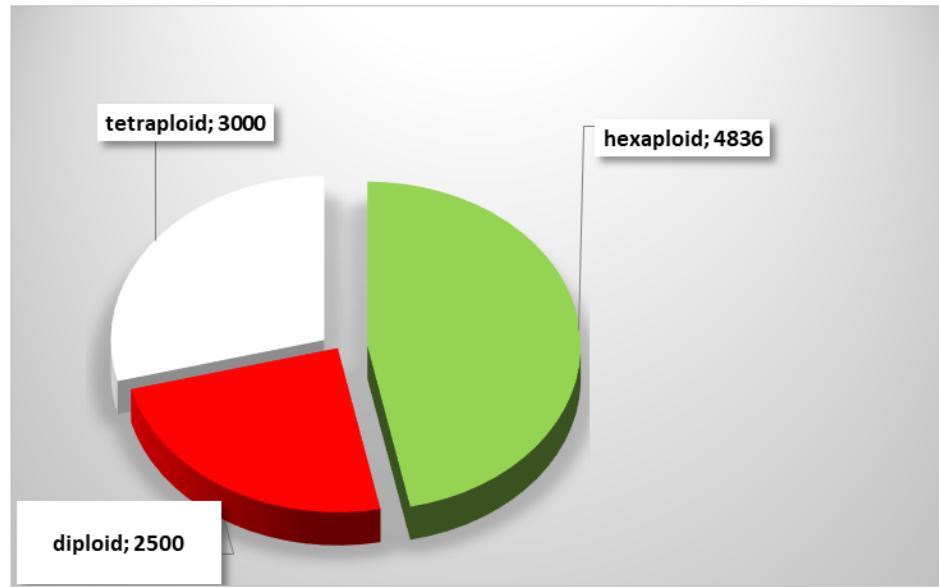
CREA CENTERS

TRAINING ON IDENTIFICATION OF BOTANICAL VARIETIES IN TRITICUM SPECIES
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CREA units and centres devoted to cereals



- [Unità di Ricerca per la Valorizzazione qualitativa dei cereali \(CREA-QCE\)](#)
- [Unità di ricerca per la risicoltura \(Vercelli\) \(CREA-RIS\)](#)
- [Unità di Ricerca per la Masicoltura \(CREA-MAC\)](#)
- [Centro di ricerca per la cerealicoltura \(CREA-CI\)](#)**
- [Centro di ricerca per l'agrumicoltura e le colture mediterranee \(CREA-ACM\)](#)
- [Centro di difesa e certificazione delle sementi \(CREA-DC\)](#)
- [Centro di ricerca per la genomica e la postgenomica animale e vegetale \(CREA-GPG\)](#)

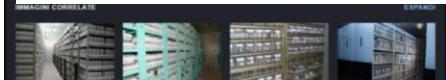


Approximate number of Triticeae genus working collections of CREA-CI

Some Italian seed banks managing wheat collections



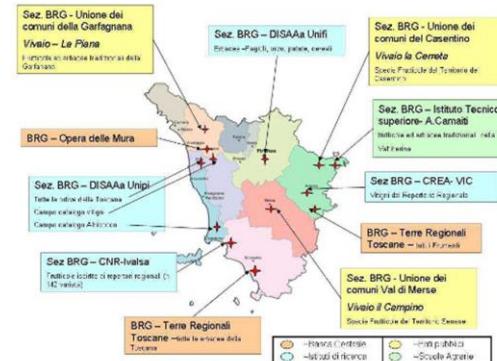
IBBR-CNR Institute of Biosciences
and Bioresources of Bari



GERMPLASM BANK LAB
for the conservation of agro-food biodiversity



Strampelli Genetic Institute
(Vicenza)



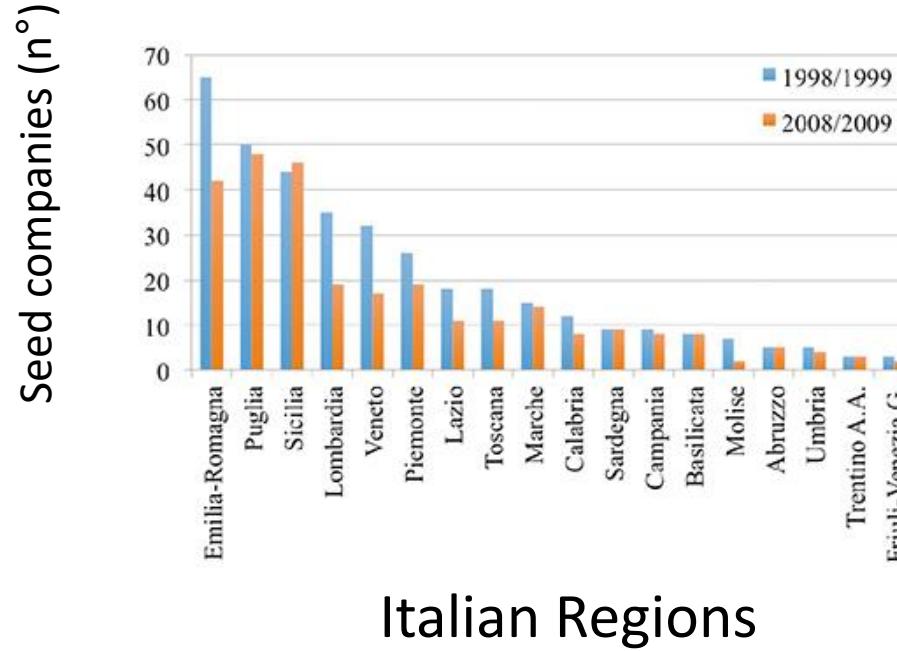
Tuscany regional bank of seeds



S.I.S. Italian Seeds Society (S.p.A)

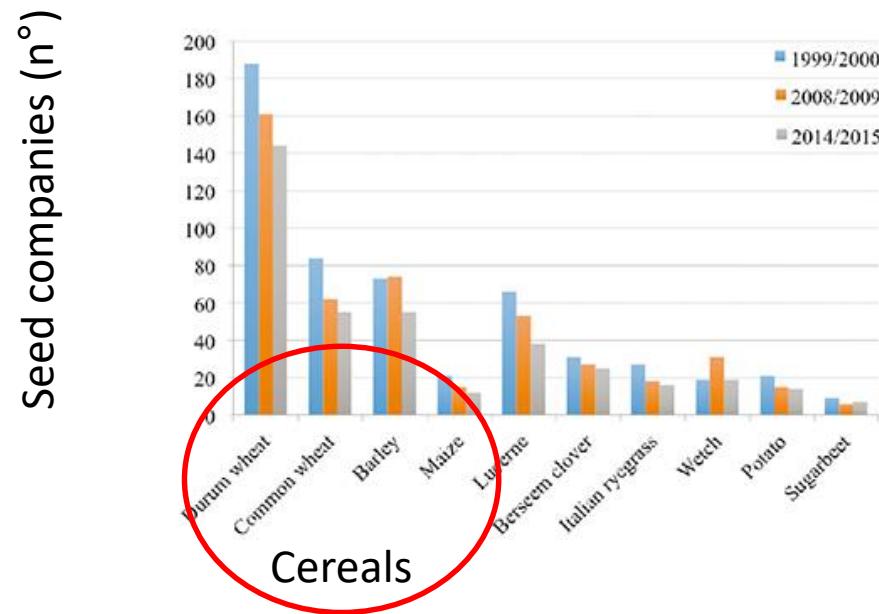
TRAINING ON IDENTIFICATION OF BOTANICAL VARIETIES IN TRITICUM SPECIES
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About 360 seed companies in Italy



Nardi, M. (2016). The role of the seed sector in Italy for a modern and competitive agriculture. *Italian Journal of Agronomy*, 11(2), 137-142.

Main sectors of activity of seed companies



Nardi, M. (2016). The role of the seed sector in Italy for a modern and competitive agriculture. *Italian Journal of Agronomy*, 11(2), 137-142.

Some projects funded by the Ministry of Agriculture, Food and Forestry Policies

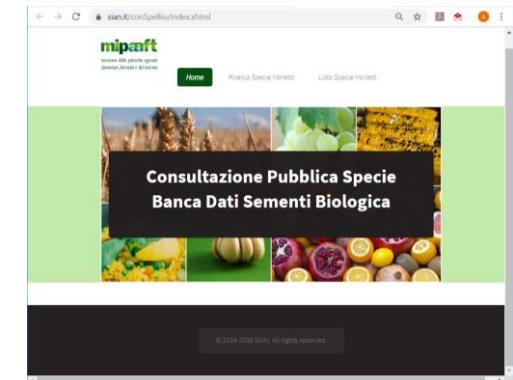
"BIODATI"
Biodiversity Conservation, Data Bank Management and Genetic Improvement



"ESPLORA"
molecular characterization plant diversity

Main species	Collection type	Number of accessions	Genotyping platform
Barley <i>Hordeum vulgare</i>	Cultivars, landraces and wild relatives	>1000	SNP-Chip, Exome sequencing
Rice <i>Oryza sativa</i>	Cultivars	300	Genotyping-By-Sequencing
Wheat <i>Triticum durum</i> + <i>Triticum aestivum</i>	Cultivars, landraces and wild relatives	230 + 500	SNP-Chip, Exome sequencing

"SIAN"
Organic Seed Database



TRAINING ON IDENTIFICATION OF BOTANICAL VARIETIES IN TRITICUM SPECIES
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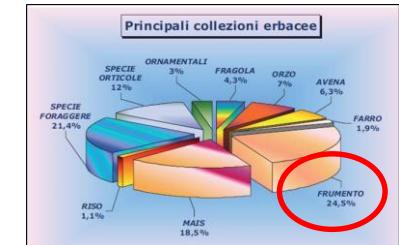
Ongoing projects



RGV-FAO



Italian database of plant genetic resources
for food and agriculture



Wheat = 25% of 20.000 herbaceous accessions, surveyed by RGV-FAO project

TRAINING ON IDENTIFICATION OF BOTANICAL VARIETIES IN TRITICUM SPECIES
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N. & CODE	NAME IN ENGLISH (BRIEFLY) & BRIEF NAME IN CZECH (IF ANY)	COUNTRY
CZE122	Genebank Dept.-Div. Genet. & Plant Breed.-Res. Inst. Crop Production Prague 6 - Ruzyně	12745
DEU001	Institute of Crop Science, Federal Research Center for Agriculture (FAL) Braunschweig	127
DEU146	Genebank, Inst. for Plant Genetics and Crop Plant Research (IPK) Gatersleben	28524
ESP004	Centro de Recursos Fitogenéticos Alcalá de Henares, Madrid	2928
EST001	Jõgeva Plant Breeding Institute Jõgeva	23
FRA040	Station d'Amélioration des Plantes INRA Clermont-Ferrand Cedex	1969
FR4051	Unité expérimentale du Môgendorf GEVES Suryères	279
GBR011	John Innes Centre Norwich Research Park Norwich, Norfolk NR4 7UH	9461
GEO001	Scientific Research Institute of Farming Mtskheta Tserovani	66
GEO007	Mtskheta Selection Station Village Tsikani, Tserovani, M	1
GEO013	N.Ketskhoveli Institute of Botany Tbilisi	79
GRC005	Greek Genebank Agric. Res. Center of Macedonia and Thraki, NAGREF Thermi - Thessaloniki	686
GRC035	Nat. Agric. Res. Foundation-Direc. Int. Relat. Document. and Info. Athens	170
HUN003	Institute for Agrobiochemistry Tápiószék	5536
HUN020	Agricultural Research Institute Hungarian Academy of Sciences Martonvásár	839
IRL029	Department of Agriculture, Food and Rural Development, National Crop Leixlip, Co. Kildare	33
ISR002	Israel Gene Bank for Agricultural Crops, Agricultural Research Org. Bet Dagan	775
ISR003	Liebermann Gemplusbank Inst. Cereal Crop Dev., Tel-Aviv Univ. Tel-Aviv	12292
ITA079	Istituto Sperimentale per la Cerealicoltura - Sez. Operativa Foggia	1547
ITA226	Istituto Sperimentale per la Cerealicoltura Catania	1310
ITA266	Istituto Sperimentale per la Cerealicoltura S. Angelo Lodigiano (MI)	15005
ITA349	Istituto Sperimentale per la Cerealicoltura Roma	1299
LTU001	Lithuanian Institute of Agriculture Drusava-Akademija, Kedainiai D	47
		LTU



6161 CREA accessions of cereals in EURISCO

ECP/GR

European Cooperative Programme for Plant Genetic Resources

European Wheat Database

EWDB

Selected criteria: Records 1 to 50 of 547

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Species	Accession name	Accession number	Status	Country of origin
Triticum durum DESF.	Aconchi	ITAFG 1	not known	
Triticum durum DESF.	Adamello	ITAFG 2	not known	ITA
Triticum durum DESF.	Adige	ITAFG 3	not known	ITA
Triticum durum DESF.	Arial	ITAFG 4	not known	FRA
Triticum durum DESF.	Aridur	ITAFG 5	not known	FRA
Triticum durum DESF.	Ajata	ITAFG 23	not known	
Triticum durum DESF.	Alacova	ITAFG 6	not known	
Triticum durum DESF.	Alcamiu	ITAFG 7	not known	
Triticum durum DESF.	Aldara	ITAFG 8	not known	USA
Triticum durum DESF.	Altar	ITAFG 9	not known	
Triticum durum DESF.	Amber	ITAFG 10	not known	CAN
Triticum durum DESF.	Ambral	ITAFG 11	not known	FRA
Triticum durum DESF.	Amdeo	ITAFG 12	not known	ITA
Triticum durum DESF.	Antas	ITAFG 13	not known	ITA
Triticum durum DESF.	Anton	ITAFG 14	not known	
Triticum durum DESF.	Annie	ITAFG 15	not known	ITA

Passport Descriptors
(FAO/IPGRI MCPD + 4 additional descriptors)

HOLDING INSTITUTE	COLLECTING SITE
InstCode	CollSite
IDENTIFICATION AND TAXONOMY	Latitude
AcceName	Longitude
Genus	Elevation
Species + SpAuthor	ADVANCED MATERIAL
SubTaxon + SubAuthor	BredCode/ BredDescr
Syn (Taxonomic synonyms)	Ancest
CropName + CropName ENG	DonorCode/ DonorDescr
OngCity	DonorNumb
SampStat	OTHER INFORMATION
	Digitiser/ DspDescr
	CollDate
	YearReg (Year of registration/first description)
	ColSite
	Remarks
	AccelURL
ML5Status	Accelise (main altitude)
AEGiftStatus	Avail (Availability)
	●
COLLECTED MATERIAL	
CollCode/ CollDescr	
CollNumb	
	CollSite

547 tetraploid wheat accessions with passport descriptors are in EURISCO

TRAINING ON IDENTIFICATION OF BOTANICAL VARIETIES IN TRITICUM SPECIES
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ITA384 : T. aestivum

ITA079: Tetraploid wheat species



Status of AEGIS candidate collection

Number of AEGIS accessions per country of origin

ECPG Activity	ORIGCTY	T. aestivum (6X)	T.spelta (6X)	tetraploid wheat species (4X)	T.Monococcum (2X)	Secale cereale
TRAID	ITA	183	-	1	-	-
TRISECA	ITA	-	-	14	-	-

TRAINING ON IDENTIFICATION OF BOTANICAL VARIETIES IN TRITICUM SPECIES

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NATIONAL RESEARCH COUNCIL
Institute of Biosciences and
BioResources CNR-IBBR



VALORIZATION OF GERMPLASM COLLECTION
AT CNR-IBBR BARI (ITALY)



Recovery, characterization, safeguard
and valorization of cereals and
forage species in Puglia Region.

TRAINING ON IDENTIFICATION OF BOTANICAL VARIETIES IN TRITICUM SPECIES
Piešťany, Slovakia, 17– 19th September 2019



VALORIZATION OF GERMPLASM COLLECTION
AT CNR-IBBR BARI (ITALY)

Mediterranean Germplasm Database

Taxa Search

Search Database by Taxa

Select a Family (37) Select a Genus (201) Select a Species (881) Select an Origin

none none Triticum durum Italy (8694)

Columns Close Reset **Search**

Search Results

(Records: 1-10 out of 191)

#	accenumb	family	genus	species	subtaxa	subsp	cropname	origin	info	add to cart (*)
1	3622	Poaceae	Triticum	durum	Apulicum	-	Wheat	Italy		
2	3631	Poaceae	Triticum	durum	Libicum	-	Wheat	Italy		
3	3700	Poaceae	Triticum	durum	Hordeiforme	-	Wheat	Italy		
4	3701	Poaceae	Triticum	durum	-	-	Wheat	Italy		
5	3702	Poaceae	Triticum	durum	-	-	Wheat	Italy		

GeoMap 10

Home Description
Aims and Goals Policy
History Green Revolution
MGD Overview MGD Gallery
MGD Statistics Collection Search
Germplasm Request Trait Assessment
Research Projects People
Collaborations Ethnobotany
Contact Information Location
Credits Other Links

201 accessions of durum wheat are listed on the database edited by IBBR

TRAINING ON IDENTIFICATION OF BOTANICAL VARIETIES IN TRITICUM SPECIES
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“SARAB” project Abruzzo Region
Characterization of ancient local populations of Saragolla



**Regione Abruzzo - Majella Seed
Bank of Abruzzo Region**



Regione Abruzzo – Dipartimento Agricoltura (PE)

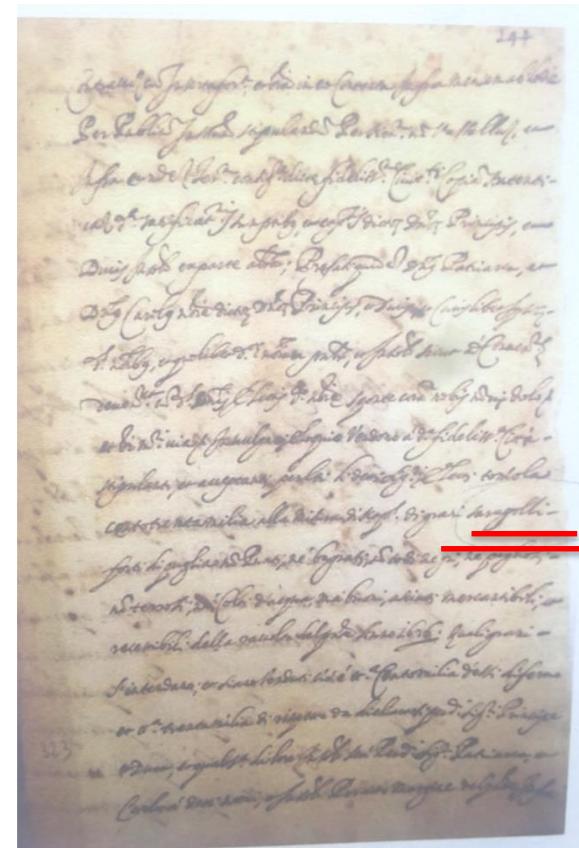


**TRAINING ON IDENTIFICATION OF BOTANICAL VARIETIES IN TRITICUM
SPECIES**

Piešťany, Slovakia, 17–19th September 2019



LA PRODUZIONE CEREALICOLA
NEL TERRITORIO DI TORREMAGGIORE
NEI SECOLI XVI E XVII



Seventeenth century affidavit between the prince of San Severo (province of Foggia) and the Viceroy of Naples, for the sale of *Saragollo forte of Puglia*

M. Fiore (2013) *Saragollo triticum apulum*, Cooperativa Fortore, Torremaggiore)

TRAINING ON IDENTIFICATION OF BOTANICAL VARIETIES IN TRITICUM SPECIES

Piešťany, Slovakia, 17– 19th September 2019



Morphological diversity observed within a single accession of Saragolla population, isolated in Abruzzo Region

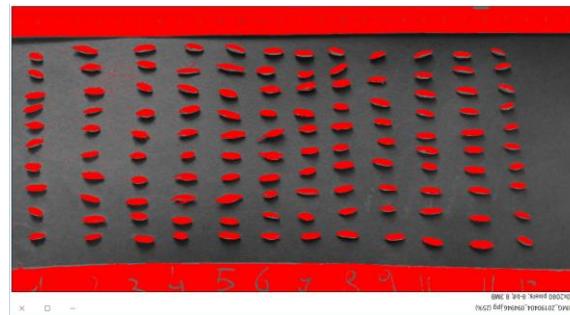
TRAINING ON IDENTIFICATION OF BOTANICAL VARIETIES IN TRITICUM SPECIES

Piešťany, Slovakia, 17– 19th September 2019



1 2 3 4 5 6 7 8 9 10 11 12

Representative seed types found in each Saragolla population from Abruzzo region



The effect of thresholding procedure for seed images processing by ImageJ software

I thank very much



Silvana Paone and Pasquale Codianni
for their helpful and valuable collaboration