European Cooperative Programme for Plant Genetic Resources

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STATUS OF THE NATIONAL ALLIUM COLLECTION - THE NETHERLANDS

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Number of accessions in the CGN's collection

Species/Crop	Ex situ	Field	Cryo	Vitro	Total
Garlic (*Allium sativum* L.)					
Shallot (*Allium ascalonicum* L.)					
Common onion (*Allium cepa* L.)	228				228
Chive (*Allium schoenoprasum* L.)	25				25
Leek (*Allium porrum* L.)	92				92
Spring onion (*Allium fistulosum* L.)	42				42
Wild Alliums	45				45
TOTAL	432				432

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Safety duplication percentage

Species/Crop	% dup. / trip.
Garlic (*Allium sativum* L.)	
Shallot (*Allium ascalonicum* L.)	
Common onion (*Allium cepa* L.)	100 / 86
Chive (*Allium schoenoprasum* L.)	100 / 96
Leek (*Allium porrum* L.)	100 / 76
Spring onion (*Allium fistulosum* L.)	100 / 64
TOTAL	100 / 82

Duplicate @ Warwick GRU
Triplicate @ Svalbard

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Structure of the most important collection (i.e. garlic, etc.) by country of origin

Country of origin	Number of accessions	Country of origin	Number of accessions
NLD	71	BGR	20
EGY	53	UZB	18
JPN	35	DUE	17
FRA	30	PAK	14
USA	23	ITA	12

EGY, PAK, BGR, NLD collecting missions in the 1980's

ITA, UZB, collecting missions in the 1990's

NLD, DUE, JPN, FRA, USA, OP varieties, cultivars, working collection

Biology status of the most important collection(s)

Biological status	Number of accessions
Wild	45 (+107)
Advanced or improved cultivar	254
Breeding/research material	2
Traditional cultivar/landrace	94

Special Collection:

107 wild leek accessions collected by Chris Kik in Greece, 2009

Biology status of the most important collection(s)

Special Collection:

107 wild leek accessions from Greece, 2009

- *A. ampeloprasum*
- *A. commutatum*
- *A. bourgeaui*

	Available (year)	*A. ampeloprasum*	*A. bourgeaui*	*A. commutatum*	Total
Succesfully regenerated	already available	5	10	10	25
	2022			5	5
	2023	2	2	1	5
	2026	5	2	1	8
	2027	5	1		6
In regeneration		14	1	1	16
Lost		27	5	2	34
Donated to Czech Genebank		7	1		8
Total		65	22	20	107

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Status of documentation

- Descriptors used: 15-20 traits, CGN descriptor list partly derived from UPOV and ECPGR descriptor lists
- Documentation system (software): Oracle
- % characterized: 90
- C&E data to EURISCO: yes
- Pictures available: yes (44%)

Acquisitions

• Any plans to fill gaps:

Yes! CGN budget increased, open for collaboration

• Acquisition strategy:

- Direct collecting (most recent mission: Albania Sept. 2022)
- Add modern varieties (incl. hybrids) from breeding companies
- Genebanks: repatriating + exchange, capacity building

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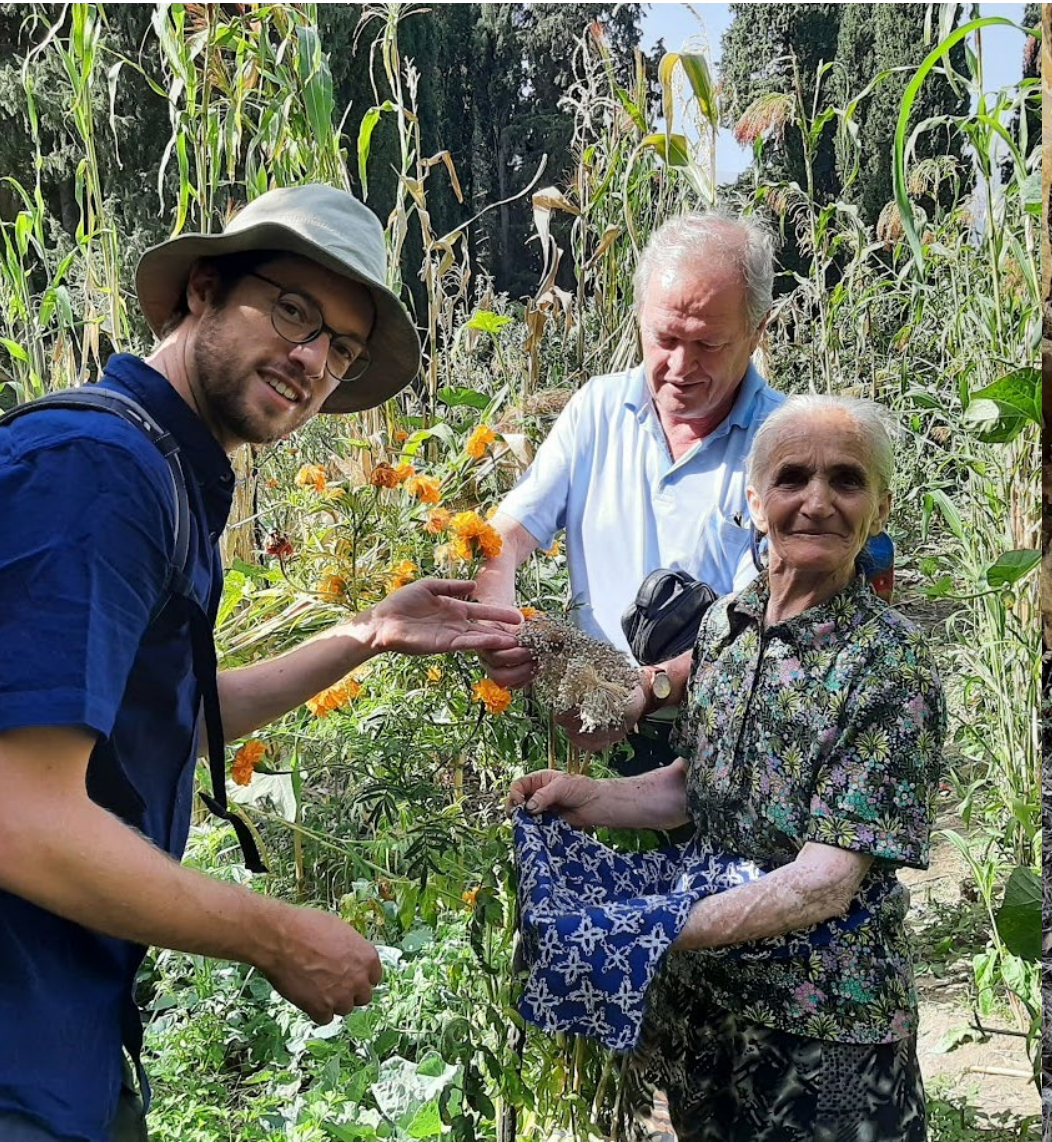
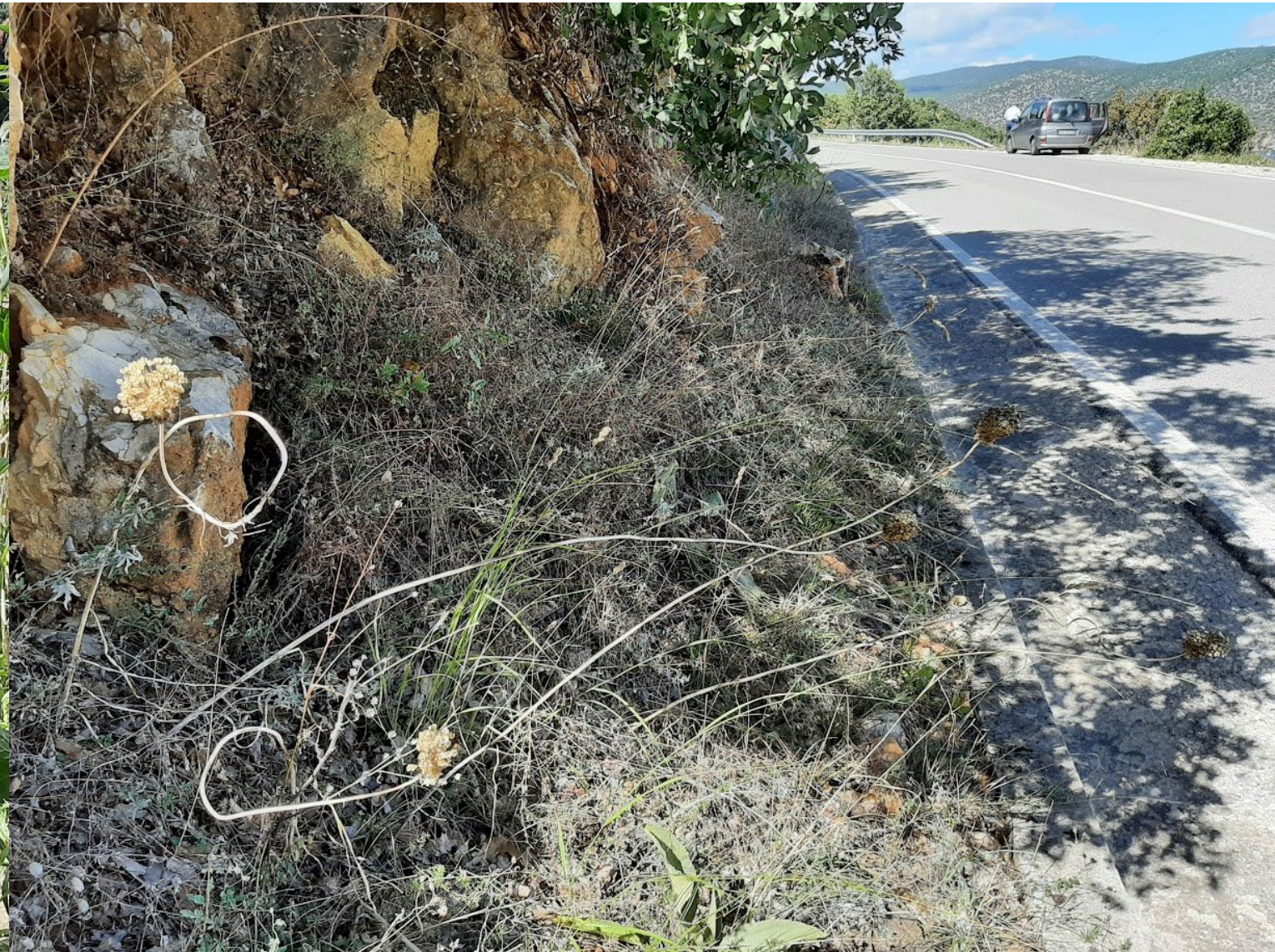
Acquisitions





Use of the collection

- Availability of material

- Regular collection: SMTA
- Special collection from Greece: MTA

- Cooperation with users (breeders, NGOs, farmers):

- Breeding companies regenerate/multiply + evaluate

- Ongoing projects:

Evaluation of wild leek from Greece by 5 breeding companies
(*Alternaria porri, Phytophthora porri, Thrips tabaci, Puccinia porri)*

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Main problems

- Multiplication/regeneration of wild leek
- Obtaining modern varieties/hybrids from breeding companies
- Collecting missions to centres of diversity

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Proposals for collaborative activities within the Working Group

- Joint regenerations?
- Collecting missions?