

UK Vegetable Genebank

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UNIVERSITY OF WARWICK

UK PGR Conservation

UK Vegetable Genebank is one of 7 Crop specific genebanks located in research institutes

UKVGB has special focus on Brassica, Onion, Carrots and Lettuce plus other herbs and leafy vegetables









1. Size, status and availability



Leafy Vegetable	Number of Accessions	Accessions Backed up
Lettuce	1502	790
Spinach	125	116
Cress	75	34
Chicory	62	32
Rocket	27	26
Asparagus	9	8
Amaranthus	4	1
Artichoke	1	1
Rumex	1	1
Total	**1806**	**1009 (56%)**



Leafy Vegetable improvement level	Number of Accessions	%
Cultivar	1352	75
Landrace	178	10
Wild	180	10
Other	93	5



Regeneration

- 29 leafy vegetables in 2026

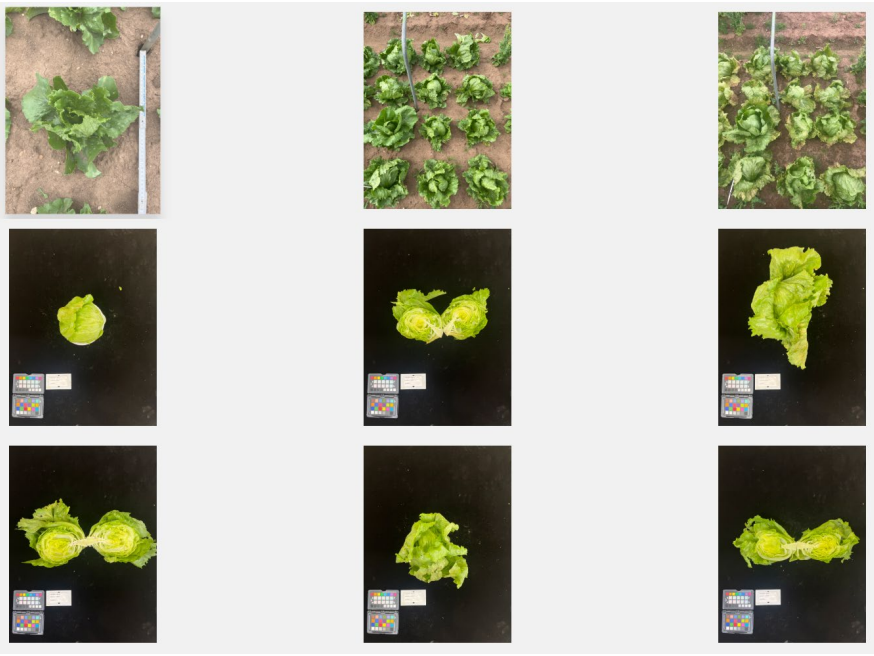
Viability testing

- ~ 1,000 accessions each year



Characterisation trial 2024: 106 lettuce accessions





2. Documentation level of collection

https://grin-global.warwick.ac.uk/gringlobal/search

GRIN-Global | UK Vegetable Genebank | Log in | New User

Version: 2.3.12

Accessions | Descriptors | Reports | GRIN Taxonomy | GRIN | Help | Contact Us | Your Profile



Different search options are available from the tabs below. We recommend using the advanced search which provides the most options for finding accessions of interest.

Lists of accessions for specific crop groupings can also be found using the descriptors and crop groups section above.

Return up to 500

(Results of more than 500 will not return images.)

Simple Search | List Search | Advanced Search | Results

The more information you provide, the better the search will be.

e.g., HRIGRU 1234 | Search | Clear All

Scientific name (any part) — Lactuca serriola

Plant name — e.g., Avoncross

Basic Info | Source Info | Show all columns | Show/hide columns | Show 10 rows | Excel

Search:

Showing 1 to 10 of 500 entries

Previous 1 2 3 4 5 ... 50 Next

	ACCESSION	PLANT NAME	TAXONOMY	DOI	ORIGIN	GENEBANK	AVAILABILITY	IMAGE
	Search ACCES	Search PLAI	Search TAXONOMY					
☐	HRIGRU 13993	TRIANON	*Lactuca sativa* L.	10.18730/1VEJPB		UKVGB		
☐	HRIGRU 13979	SALADIN	*Lactuca sativa* L.	10.18730/1VEJ8'		UKVGB		
☐	HRIGRU 13980	ICEBERG	*Lactuca sativa* L.	10.18730/1VEJ9=		UKVGB		
☐	HRIGRU 13825	ADRIATICA 2	*Lactuca sativa* L.	10.18730/1VEG76	Bulgaria	UKVGB		

Accessions | Inventory | Get Accession Inventory Group | Get Exploratic

Accession Inventory Group ID	Group Name
3	AEGIS STATUS
18	GENRES-CHARACTERISATION2007
19	GENRES-CHARACTERISATION2008
20	GENRES-CHARACTERISATION2009
82	IBPGR
92	Lettuce diversity set
78	Regeneration 2023
98	Regeneration 2024
103	Regeneration 2025
110	Regeneration 2026
100	USDA PI Numbers

Details for: HRIGRU 13825, *Lactuca sativa* L., ADRIATICA 2

Summary | Passport | Taxonomy | Other | Pedigree | IPR | Observation

Annotations

Pathogens

Other Links

Vouchers

Actions

Trait(s) evaluated

Flower anthocyanin content	47 Accessions
Head shape	50 Accessions
Heart formation	50 Accessions
Homogeneity	50 Accessions
Leaf anthocyanin content	51 Accessions
Leaf colour RHS code	51 Accessions
Outer leaf colour	51 Accessions
Outer leaf colour intensity	51 Accessions
Seed_colour	46 Accessions

Citations

- **Beacham et al.,.** 2023. Tipburn resilience in lettuce (*Lactuca* spp.) the importance of germplasm resources and production system-specific assays. Tipburn resilience in lettuce (*Lactuca* spp.) the importance of germplasm resources and production system-specific assays. Beacham, 2023 **Number of accessions cited: 16**
- **Monaghan et al.,.** 2023. Development and utilization of phenotyping pipelines to assess resilience to transient abiotic stress in vegetable crop populations. Development and utilization of phenotyping pipelines to assess resilience to transient abiotic stress in vegetable crop populations. Monaghan, 2023 **DOI:** 10.17660/ActaHortic.2023.1372.2. **Number of accessions cited: 187**
- **Pink, H., Talbot, A., Graceson, A. et al.** 2022. Identification of genetic loci in lettuce mediating quantitative resistance to fungal pathogens. Identification of genetic loci in lettuce mediating quantitative resistance to fungal pathogens. Pink, 2022 **Number of accessions cited: 16**

3. Constraints of efficient conservation

Finance for regeneration:

(Staffing, Glasshouse space)

4. Existing Use and Value

- Leafy Vegetable seed orders since 2024 :
- 324 samples
- in 22 orders

- UK 90%, Europe 5%, Rest of World 5%

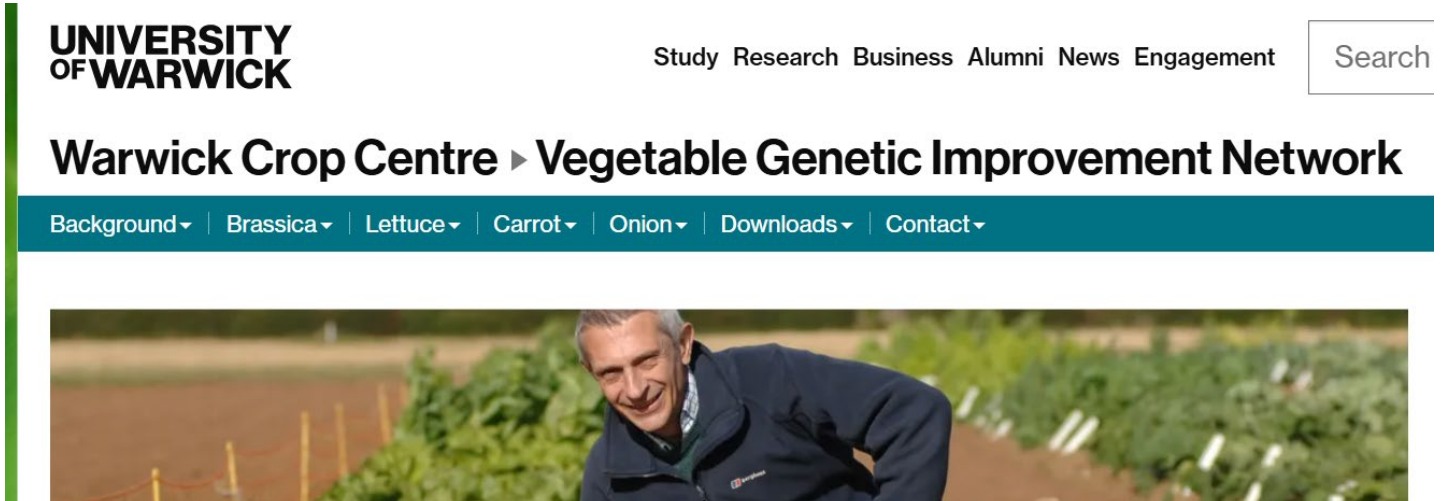


5. Ongoing Projects

Vegetable Genetic Improvement Network VegIN

An interactive network of researchers and industry leaders.

Previously work with lettuce and now to include wild Rocket



Warwick Crop Centre ▸ Vegetable Genetic Improvement Network

The lettuce diversity set has 96 lines, capturing natural genetic and morphological variation.



Lettuce diversity set founder lines.

Type	No.
Butterhead	25
Cos	17
Wild	17
Crisp	10
Cutting	10
Latin	7
Batavian	4
Stem	2
Iceberg	1
Leaf	1
Oilseed	1
Stalk	1

Number per type

5. Ongoing Projects

A Green Future: Developing Fusarium Disease Resistance For Healthy And Sustainable Leafy Green Vegetable Crops (iCASE Studentship)	John Clarkson with Tozer Seeds

Improvement of characterization data

Gridscore NEXT

- Digital data entry
- QR codes with phones/tablet
- *Dates*: Sowing
- *Conditions*: Growing medium
- *Plant info*: Glasshouse location
- *Images*

- Download all date to GrinGlobal

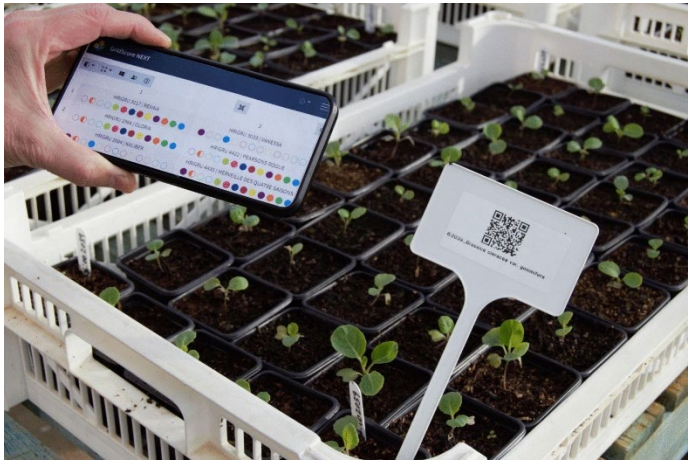


Photo credit: Nick Fenby

Raubach, S., Schreiber, M., Hamilton, R. et al., BMC Bioinformatics 27, 44 (2026)

6. Status of in situ conservation actions and CWR of leafy vegetables.

We are working with Nigel Maxted on UK vegetable landraces.

7. Expectations from WG

To be open to further collaboration



Find out more about the UKVGB:
warwick.ac.uk/fac/sci/lifesci/wcc/genebank

Search the UKVGB collections:
grin-global.warwick.ac.uk/gringlobal/search

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