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Breeding for Resilient, Efficient and Sustainable Organic Vegetable production

BRESOV

KER 2: Breeding material of broccoli, snap bean and tomato for the development of new resilient and improved organoleptic and nutritional quality organic cultivars

KER Presentation

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KER characterisation

Problem	 Many materials used for organic agriculture are conventional varieties with suboptimal performance and low resilience.
	 A wide diversity is needed in organic agriculture
	 Landraces frequently are not resistant to major diseases
	 Varieties specifically adapted to organic agriculture are difficult to find by farmers
	 Markets are increasingly demanding organic produce with local landraces
Solution	 Developing new versions of the landraces with improved resistance to diseases Identification and selection of already available materials, and development of new varieties adapted to organic production Efficient dissemination of the best materials







KER charactersation

What we did	 Selection of landraces and new cultivars specifically adapted to local organic agriculture conditions and consumer demands. Development of pre-breeding and breeding materials derived from characterization and use of unexplored sources of variation specifically adapted to organic agriculture. Identification of pre-breeding and breeding materials derived from characterization and use of unexplored sources of variation with improved nutritional quality.
BRESOV innovation	 Plant material in different stages of development (pre-breeding materials and populations, breeding lines, new cultivars) bred and selected for adaptation to organic agriculture and for improved nutritional quality. The materials are new to the market and are unique Materials may also be of potential interest for other non-organic niches.







KER characterisation

Who will	 Organic farmers, as they will have materials specifically adapted to
benefit from	organic conditions

- Innovative and small breeding companies, including local ones, targeting the organic agriculture sector
- Conventional farmers willing to transition to organic agriculture (or not)
- Consumers willing to consume organic vegetables, particularly locally produced with local materials

What do we plan for the future?

Who will

our results?

- Agreement on ownership of materials to be registered or transferred to the sector
- Disseminating information on materials of interest to farmers and breeders (BRESOV web page, workshops, meetings)
- Demonstration trials of materials (with stakeholders)
- Registering new varieties for organic agriculture
- Transfering materials (registered or not) to the sector







- New varieties and materials adapted to organic conditions
- Increasing the area of organic cultivation (environmental impact)
- Creation of jobs in organic agriculture and seed companies
- Contribute to more environmentally friendly agriculture





Thank you for your attention!

Whom to contact in case of interest?

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