

Tomato varieties 'Muchamiel' and 'De la pera' from the southeast of Spain



Area:

Alicante-Murcia, Spain

Main actors in conservation:

- **Local farmers**
- **Consumers associations**
- **EPSO, Miguel Hernández University**

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Tomato traditional varieties



Muchamiel



De la pera



Morunos

Frequently ignored outside their production area, these traditional cultivars are highly esteemed by local people due to their excellent quality. Genetic erosion is accelerated by the lack of disease resistances in these cultivars.

All these traditional varieties are highly susceptible to several viruses

ToMV



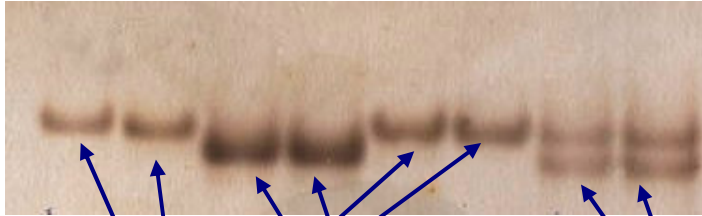
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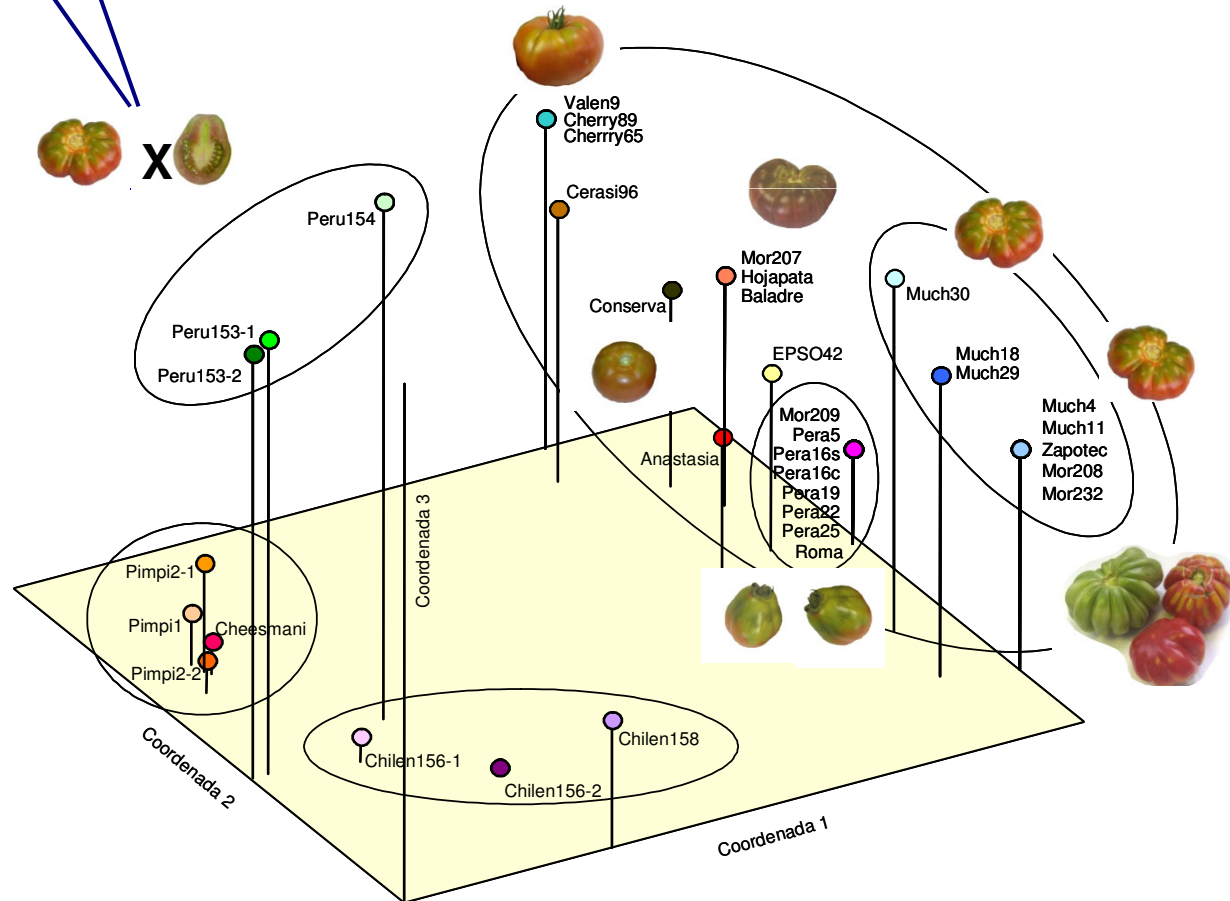
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Research to promote on-farm conservation



-Use of molecular markers to characterise genetic diversity

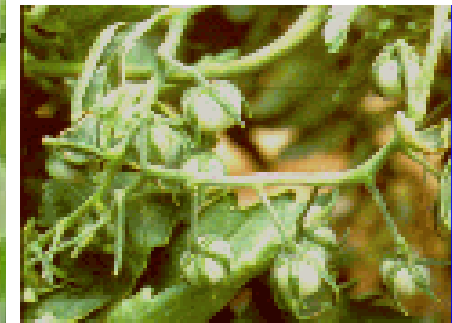
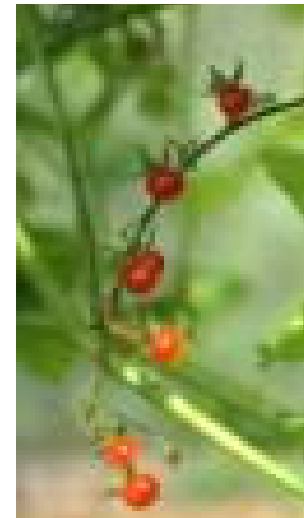


Research to promote on-farm conservation

**-Introgression of resistance genes from
wild species**



Cultivated



wild

Research to promote on-farm conservation



-Participatory plant breeding

Lot of seeds from the improved traditional varieties, with genetic resistance to several virus, are being distributed to local farmers.

Farmers select the best plants in their own fields looking for specific adaptation. Special emphasis is being placed in trials conducted in organic farming conditions.

Research is being partially supported by the Spanish Ministry of Education and Science

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