



Vegenov
Customized plant research



Inter or intra-specific hybridizations

Vegenov can help you in your projects of inter or intra-specific hybridizations. We develop customized tools and methods that will help you to exploit the genetic diversity.



Hybridization

- Synchronization of flowering cycles
- Pollen compatibility test between parents: *in situ* pollen germination method
- Implementation and traceability of crosses



Embryo rescue

- Immature embryo rescue by *in vitro* culture
- Plantlets regeneration and cloning
- *In vitro* library for long term conservation of the inter-specific hybrids



Characterization of the progeny

- Fertility analysis by IFC and microscopic observations
- Analysis of cellular DNA content by cytometry (DAPI and IP)
- Chromosome count on root meristems
- Analysis of the genetic background of progeny to accelerate the recurrent parent genome recovery variety in the case of marker-assisted backcrossing



Chromosome doubling by chemical treatment

- Facilitation of interspecific crosses
- Fertility restoration of interspecific hybrids
- Creation of genetic variability

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