



New research structure in fruit growing in Hungary

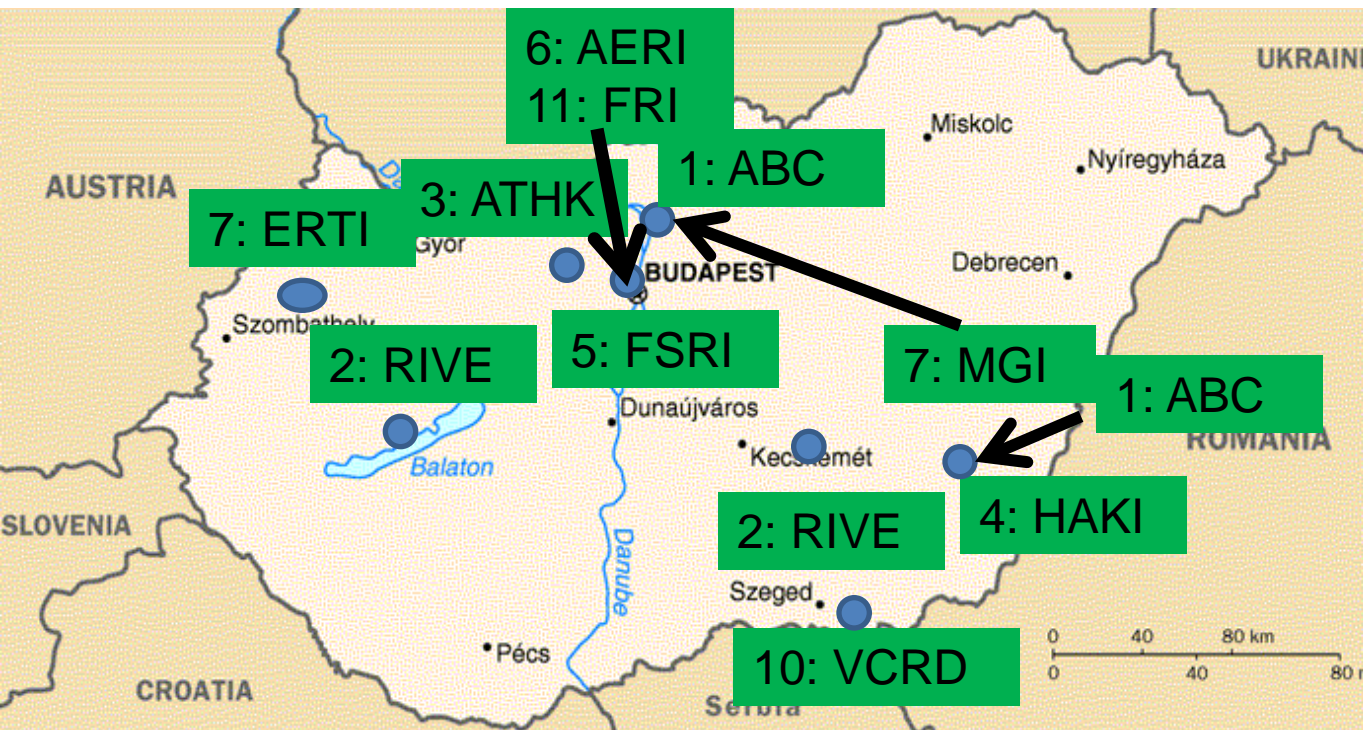
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deputy for scientific issues

National Agricultural Research and Innovation Centre

Fruitculture Research Institute

NARIC's network



- 1: Agricultural Biotechnology Institute (ABC)
- 2: Research Institute for Viticulture and Enology (RIVE)
- 3: Research Institute for Animal Breeding, Nutrition and Meat Science (ATHK)
- 4: Research Institute for Fisheries and Aquaculture (HAKI)

- 5: Food Science Research Institute (FSRI)
- 6: Agro-Environmental Research Institute (AERI)
- 7: Forest Research Institute (ERTI)
- 8: Institute of Agricultural Engineering (MGI)
- 9: Research Department of Irrigation and Water Management (RDIWM)
- 10: Vegetable Crop Research Department (VCRD)
- 11: Fruitculture Research Institute (FRI)

The Hungarian fruit research

- The Fruit Research Institutes were founded in 1950.
- Ownership of the Research Institute:
 - 1950 – 1981 Department of Agriculture
 - 1982 – 2013 Hungarian State Holding Company
 - 2014 - Department of Agriculture



Breeding activities of the Hungarian fruit research workshops

Research Station of Fertőd: raspberry, strawberry, currant, and elderberry breeding

Research Station of Érd: sweet cherry, tart cherry, Persian walnut breeding

Research Station of Újfehértó: tart cherry, European plum, quince, apple breeding,

CUB: apple and apricot breeding, cherry rootstocks breeding

Research station of Cegléd: apricot and European plum breeding



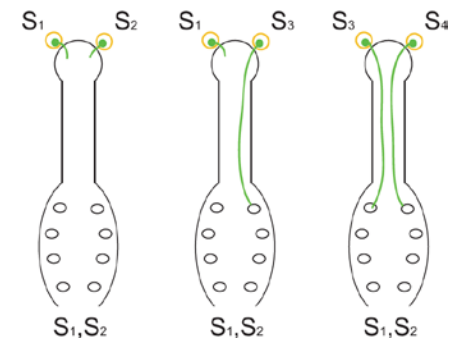
About the NARIC FRI

- The NARIC FRI is under the state budget – project-based financial system.
- Our mission is
 - to support for the growers
 - to make applied research and experimental development
 - to continue the breeding activities
 - to test the rootstock/scion combinations
 - to test or create innovations related to orchard systems and fruit growing technology



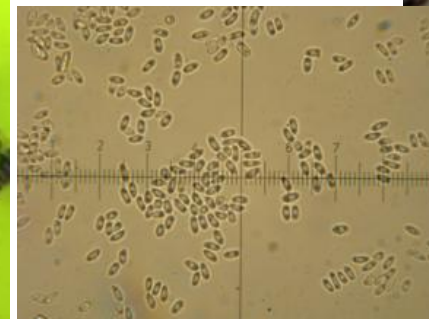
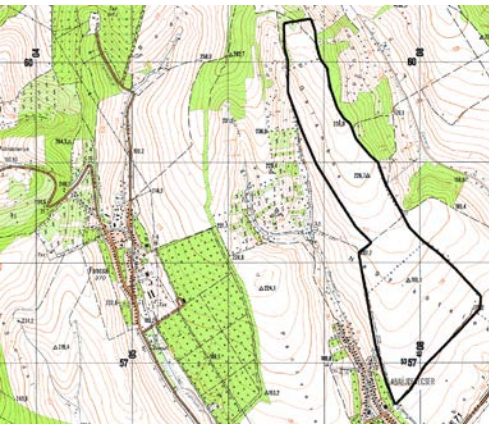
Research topics I.

- creation of virus-free propagation material
- virus elimination of cultivars are in the Nuclear Stock Garden
- propagation technology trails in the nursery
- maintaining gene bank
- data collection and evaluation of accessions



Research topics II.

- orchard system trails
- growing technology trails
- plant protection research
- Fruit Site Cataster



Some changes in the research sector

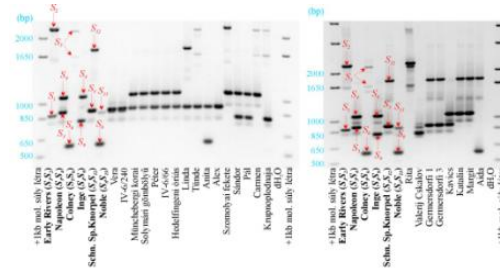
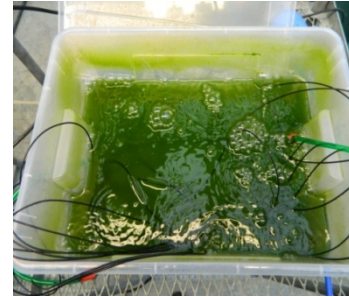
- the research projects had been checked by scientific committee of the Institute
- starting from next year representatives of growers can also check the projects as well
- there was just call for small projects on national level this year
- co-operation is strongly preferred



What are we looking for?

co-operations about

- research in the **labs** (there is no genetic, plant protectional, and analytic labs)
- **biotechnology** and **molecular genetics**
- **new methods in detection / identification of pathogens** in the nuclear stock garden
- **evaluation of novel bred cultivars / domesticated cultivars**
- **innovations in the growing systems** (modernization of the growing technology, mechanization)
- **plant protection** research



- **climate change** research
- **post-harvest** research
- **mikorhiza** connection research
- creation of **novel created functional fruit-based food**
- wide-spread **organoleptic** testings



Thank you for your attantion!



The most perspective fruit species in the Hungarian fruit industry

