

Use of genetic diversity of genus *Prunus* L. in the selection of clonal rootstocks for stone fruits and peculiarities of their reproduction

**Gennady V. Eremin, Vladimir N. Podorozhniy,
Oksana V. Eremina**

*Krymsk Experiment Breeding Station, Branch of Federal State Budgetary Scientific Institution
“Federal Research Center the N.I. Vavilov All-Russian Institute of Plant, Genetic Resources”,
353384, Krymsk, Krasnodar region, str. Vavilova, 12,
email: kross67@mail.ru*

On the basis of a cultivar diversity of wild growing types of the genus *Prunus* L. — *Prunus cerasifera*, *Prunus armeniaca*, *Prunus persica*, *Prunus fruticosa*, *Prunus lannesiana*, *Prunus maackii*, *Prunus tomentosa*, *Prunus pumila* and *Prunus incana* on the Krymsk Experiment Breeding Station there were obtained the highly adaptive, medium size or small size clonal rootstocks for stone cultivars with good compatibility with cultivar-grafts. For plum, apricot and peach: ‘Kuban 86’ (trade mark *Krymsk 86*), ‘BBA-1’ (trade mark *Krymsk 1*), ‘Evrika 99’ (trade mark *Krymsk 99*), ‘Zarevo’, ‘Alab 1’, ‘Speaker’, ‘Best’ and ‘VSV-1’ (trade mark *Krymsk 2*); for cherries — ‘L-2’ (trade mark *Krymsk 7*), ‘LC-52’ (trade mark *Krymsk 6*), ‘VSL-1’, ‘VSL-2’ (trade mark *Krymsk 5*) and ‘RVL-9’. The part of rootstocks was tested and successfully used in different regions of Russia and in the countries near and far abroad (Ukraine, USA, Netherlands, Spain, Turkey, etc.). The applied integration of a culture tissue in vitro in a selection process in our Station substantially accelerates it, favouring to rapid introduction of new rootstocks into world production. There were developed the technologies of microclonal reproduction, green and wooden grafting. The revealed light rooting of woody cuttings of rootstocks ‘Kuban 86’, ‘Evrika 99’, ‘Zarevo’, ‘Best’, ‘VSL-1’ and ‘RVL-9’ (50–80 %) allowed to develop the technology of growing of planting rootstocks on them indirectly on the first field of a nursery.

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