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KL2: Breeding of horticultural plants in Lithuania: an overview

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At Institute of Horticulture, Lithuanian Research Centre of Agriculture and Forestry (IH-LRCAF) orchard plant breeding is focused mainly on pome fruits (*Malus domestica*; *Pyrus communis* L.); stone fruits - sweet cherry (*Prunus avium*), sour cherry (*Prunus cerasus*), plum (*Prunus domestica* L.); small fruits - blackcurrant (*Ribes nigrum*), strawberry (*Fragaria annanassa; Fragaria vesca*), wild strawberry (*Fragaria vesca* L.), raspberry (*Rubus idaeus*); japanese quince (*Chaenomeles japonica*) and others. Over 90 new improved fruit cultivars is developed in IH-LRCAF. Research is focused on improving cold hardiness, resistance to diseases and insects, and yield as well as shipping and shelf life qualities; as well as on fruit quality, plant development and biotechnology applications. The preservation of genetic resources is also the primary goal.

49 new vegetable cultivars and hybrids were created at IH-LRCAF since 1987 and the result of all breeding work is more than 70 cultivars of vegetables and rare plants. Vegetable breeding is focused on: onion (Allium cepa), garlic (Allium sativum), radish (Raphanus sativus), tomato (Solanum lycopersicum), cucumber (Cucumis sativus), bean (Phaseolus vulgaris), pepper (Capsicum annuum), red beet (Beta vulgaris), carrot (Daucus sativus), cabbage (Brassica oleracea) and others. More than 60 species are grown in the collection of rare vegetable and spice plants.

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