

PI 527307. *Beta vulgaris* L. CHENOPODIACEAE Sugarbeet

Donated by: Campbell, L.G.; Bugbee, W.M., Northern Crop Science Laboratory,, USDA-ARS, North Dakota State University, P.O. Box 5677, Fargo, North Dakota, United States. **remarks:** Released by the USDA-ARS and the North Dakota Agricultural Experiment Station in April 1988. Received November 21, 1988.

donor id: F1009. **origin:** United States. **pedigree:** Forty-two plants from 12 sixth-cycle families. **other id:** GP-130. **group:** CSR-SUGARBEET. **remarks:** Roots resistant to three major storage-rot fungi and have very low postharvest storage-respiration rate. Plants heterogenous for various traits. Roots white skinned with white flesh. Internal CO₂ concentration 28% below hybrids. Root yield and fresh weight sucrose 75% and 80% of commercial hybrids. Potential use in developing improved storability. **disease resistance:** Storage rots *Phoma betae*, *Penicillium claviforme*. *Botrytis cinerea*. Breeding Material. Seed.

PI 527308. *Nicotiana tabacum* L. SOLANACEAE Tobacco

Donated by: Pittarelli, G.W., Plant Sciences Institute, USDA-ARS, Beltsville, Maryland, United States; and Sisson, V.A., Crops Research Laboratory, USDA-ARS, P.O. Box 1555, Oxford, North Carolina, United States. Received November 18, 1988.

donor id: Bel MS-2. **origin:** United States. **pedigree:** *N. rustica* (2n)/7*Md 609(4n *N. tabacum*). **other id:** GP-36. **group:** CSR-TOBACCO. **remarks:** Alloplasmic cytoplasmic male-sterile type with nuclear genome of *N. tabacum* in cytoplasm of *N. rustica*. Plants genetically stable in morphology and male sterility. Anthers stigmatoid. Utility as a cytoplasmic marker, as a taxonomic tool, in basic studies of alloplasmic male sterility, and as potential alternative for hybrid seed production. Breeding Material. Seed.

PI 527309. *Medicago sativa* L. FABACEAE Alfalfa

Donated by: Havey, M; Irwin, J; Maxwell, D, Department of Plant Pathology, University of Wisconsin, Madison, Wisconsin, United States. **remarks:** Released by the Wisconsin Agricultural Experiment Station in October, 1988. Received November 18, 1988.