2n-gametes have been used by breeders to access wild species germplasm and transfer genetic diversity and valuable traits from diploid hybrids to the tetraploid level. Genotypes that produce 2.5% or more 2n-pollen can be regarded as good 2n gamete producers and hence suitable for breeding by sexual polyploidization. We have compiled information on 2n-pollen producer 2x cultivated landraces from Phureja and Stenotomum groups and derivative hybrids from crosses with wild species from Piurana, Tuberosa Conicibaccata, and Megistracroloba series. This list (Table 6 in project’s website, option News Feed) also provides information on tuber characteristics, resistance, and quality attributes for use in selecting desired 2n gamete-producing genotypes for prebreeding purposes.