

#60-20-CRBAN

Technology

Genetics and New Breeding

### Open-pollinated Varieties of Sweet Corn



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#genetic breeding | #corn | #OPV | #varieties | # non-GMO | #sweet corn | #hybrid

FVT

<https://www.argentina.gov.ar/inta/tecnologias/variedades-de-polinizacion-abierta-de-maiz-dulce>

The non-genetically modified, open-pollinated varieties (OPV) of sweet corn constitute an alternative market to hybrids. Family and organic farms are the main targets for this product, without detriment to other non-certified commercial crops. The availability of such OPVs is relevant not only for family agriculture, but also to add value through their incorporation in markets that demand non-GMO products.

In order to meet such needs, the Corn Improvement team from the INTA Agricultural Experiment Station of Pergamino, has developed and registered the INTA *Anita* sweet corn OPV for production, and the INTA *Eusilia* super sweet varieties. These non-GMO varieties feature natural mutations that improve the sweetness, creaminess and tenderness of the kernel with fresh consumption quality. Furthermore, both genetic materials have been selected for their agronomical performance under the pressure of local leaf and ear diseases, which makes them apt and strong enough to plant in temperate regions.

This product is aimed at seed companies that wish to offer new corn varieties. By way of the OPV technology, they may offer their customers seeds to grow sweet and extra sweet corn for different types of establishments.

Lower seed production cost compared with hybrid cultivars.

National developments with good performance against diseases and adaptation to planting conditions in temperate environments.

Yellow kernel, with high sugar content that grants it excellent flavor and texture for fresh consumption.

Corn flavor and color characteristics that are accepted and valued by consumers.

TRL9

The varieties have been registered in the National Seed Institute (INASE, as per the Spanish acronym) and are available for non-exclusive licenses, for production and marketing.

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