Corn Breeding Population for New Silage Hybrids

WARF: P110355US01

Inventors: Natalia de Leon Gatti, James Coors, Dustin Eilert

The Wisconsin Alumni Research Foundation (WARF) is seeking commercial partners interested in a population of corn that could be used to develop more nutritious silage hybrids with high dry matter yield.

Overview

Corn silage is a forage crop used for high energy feed on many dairy and cattle farms. The best corn for silage shares three main characteristics: high grain content, good yield and digestibility. An important metric is neutral detergent fiber digestibility (NDFD). It is estimated that every percent of NDFD is worth 0.6 pounds of milk.

The Invention

UW–Madison researchers have developed gem quality synthetic cycle 1 (GQS C1) corn that could be used to breed improved inbred lines and silage hybrids. The researchers selected plants displaying high NDFD, high yield and 75 percent Stiff Stalk background.

Applications

- Development of high quality hybrids for silage production

Key Benefits

- High neutral detergent fiber digestibility
- High dry matter yield
- Superior nutritional quality
- Could be crossbred with other corn lines optimized for northern climates

Additional Information

For More Information About the Inventors

- Natalia de Leon Gatti

Related Technologies

- WARF reference number P130025US01 describes maize inbred line “W613S” for developing silage hybrids.
- WARF reference number P130026US01 describes maize inbred line “W614S” for developing silage hybrids.
- WARF reference number P130028US01 describes maize inbred line “W616S” for developing silage hybrids.

Tech Fields

- Animals, Agriculture & Food : Plant varieties

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