



Best Practices

IP Strategy

Education and Training

Confidential Information

Notebooks

Invention Disclosures

Record Retention

Publication Review Process

Agreements

Ethics and Compliance

Best Practices

Material Acquisition and Storage

Treaties and Laws

Bag and Other Labeling

Trademarks and Logos

Monitoring and Detection of Third Party Material

Post Patent Process

Potential Third Party Issues

Freedom to Operate Analysis

Enforcement

Developing an Intellectual Property Strategy

Develop Protection Strategy

- Why Protect
- How to Protect
- What to Protect

Develop Process

- Identification of inventions
- Invention Disclosure
- Review of inventions and drafting
- Where to Protect
- Enforcement

Why Protect?

Asset

Freedom to Operate

License

Deterrent effect

Create value

Option to pursue action

How to Protect?

Patent

Plant Variety
Protection
(PVP)

Bag Tag

Agreement

Trademark

Copyright

What to Protect with a Patent?

Native Traits

Methods

Molecular Technologies Breeding Technologies

Genetics

Other Technologies

A Little Background – Monsanto Vegetable Seeds



22 DIFFERENT CROP FAMILIES INCLUDING

- **♦** BROCCOLI
- **△ LETTUCE**
- ♦ SPINACH

- MELON
- **SWEET CORN**

- **♦ ONION**
- **♦ TOMATO**

- ♠ CUCUMBER
- **♦ PEPPER**
- **OWATERMELON & MORE!**

98% OF R&D

FOR **BREEDING** BETTER SEEDS TO IMPROVE VEGETABLE PRODUCTIVITY, QUALITY AND CONSUMER APPEAL, INCLUDING TASTE AND FLAVOR

2 BIOTECH VEGETABLE CROPS

SQUASH AND SWEET CORN





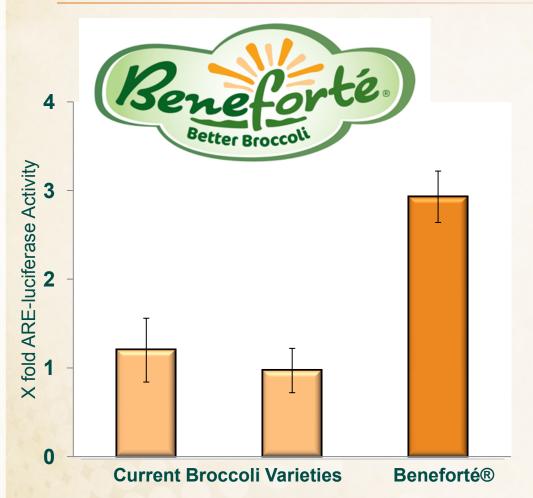


Frescada® Lettuce



- A sweet tasting lettuce, very low in bitterness and crunchier compared to romaine
- Greener color and more flavor compared to iceberg
- Has more vitamin C and folate compared to iceberg

Beneforté® Broccoli



- Beneforté® broccoli fresh florets naturally contains 2-3x the phytonutrient glucoraphanin than other broccoli varieties
- Glucoraphanin boosts your body's antioxidant enzyme levels.
- Antioxidant enzymes help maintain the antioxidant activity of vitamins A, C, and E

*2009 Monsanto trials

What to Protect? Selected Granted Claims

Iceberg/Romaine Lettuce U.S. 8.729.343

 A lettuce seed capable of producing a lettuce plant, wherein said lettuce plant comprises at least two morphological characteristics selected from the group consisting of an elliptical stature, a spatulate leaf shape, and a semi open head formation; and wherein said lettuce plant has a first outer leaf of a head having a length to width ratio between about 1.2 and about 2.7, and a color which ranges from about RHS 146A to about RHS 146B.

Downy Mildew Resistant Cucumber

U.S. 8,859,859

- A method of producing a cucumber plant having resistance to Downy Mildew comprising the steps of:
- crossing a cucumber plant of accession PI197088 with a second cucumber plant having at least one desired traits; and
- selecting at least a first progeny cucumber plant resulting from the crossing that comprises resistance to Downy Mildew and the desired trait.

Beneforté® Broccoli U.S. 6,340,784

 A broccoli plant having elevated levels of 3methylsulfinylpropyl glucosinolates, or 4methylsulfinylbutyl glucosinolates, or both, elevated above that initially found in Brassica oleracea breeding lines, wherein the broccoli plant is a hybrid plant produced by crossing a broccoli breeding line with a wild Brassica species selected from the group consisting of B. drepanensis and B. villosa.

Process for Patent Protection

Identification of Invention

Invention
Disclosure
Submission and
Review

Data Review and Development

Claiming Strategy Application
Drafting Process
and Timeline

Seed Deposits

Timing of Filing

Review Prior to Anniversary Date

Foreign Filing Decisions

Where to Protect?

Scope of Protection in Country

Cost Over Life of Patent

Type of Claims and Invention

Commercial Value

Research and Development Locations

Strength of Patent System

Enforcement Options and System

Compulsory Licensing

Patent Term Extensions

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THANK YOU!





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