

Agriculture Is at a Crossroads



Agriculture Division of DowDuPont

Corteva Agriscience™, Agriculture Division of DowDuPont, and others are using CRISPR to solve some of our greatest food challenges.

POSSIBILITIES FOR CONSUMERS:



Enhance heart-healthy **soybean oil**



Create **low-gluten wheat** (targeting proteins associated with celiac and gluten sensitivity)



Improve the flavor and cost of **decaffeinated coffee** with a naturally decaffeinated bean



Boost the **cacao plant's** immune system to resist a harmful virus



Reduce vineyard fungus affecting the **wine industry**



Protect **bananas** against disease



Shield **oranges** from a disease decimating citrus orchards

POSSIBILITIES FOR FARMERS:

	WHEAT	STRAWBERRIES POTATOES AVOCADOS	CORN	SOY	CANOLA	RICE	SUNFLOWER
• Disease resistance	✓		✓	✓	✓	✓	
• Higher yield using fewer resources	✓		✓		✓	✓	
• Drought tolerance			✓			✓	
• Better product quality			✓		✓		✓
• Faster to mature			✓	✓		✓	
• Slow browning or rot		✓					

What is CRISPR?

CRISPR gene editing can create an improved plant that does not include DNA from a different species. CRISPR makes it possible to deliver nutritious plants that could occur in nature or be developed through conventional breeding, but faster and more efficiently.