

# ACDA ANNUAL CONFERENCE

Coming Together to Nourish the Nation





April 21 - 24, 2024 Marriott St. Louis Grand St. Louis, Missouri



## Today's Speakers



Kelly Bristow MS, RDN Bayer



Dr. Sarah Davidson Evanega Okanagan Specialty Fruits



Thorsten Schwindt Bayer



Rebecca Catlett
Okanagan Specialty Fruits







## The Challenge:

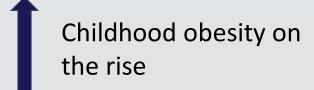
Only 1 in 10
American Adults
consumes
recommended
daily allowance of
fruits and
vegetables



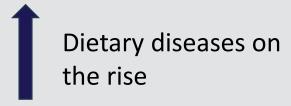


#### The Challenge

1 in 3 of US Kids do not eat a daily fruit<sup>1</sup>



Nearly HALF of US Kids do not eat a daily vegetable<sup>1</sup>





Only 3% of innovation in supermarket is in produce

## The Opportunity: Embrace and Accelerate Innovation

#### **Traits for Consumers**











#### **Traits for Growers/ Sustainability Traits**















New Innovations are possible with biotechnologies

#### Consumers Embrace of Food-Tech for Personal and Environmental Benefit

Several independent studies suggest US consumers don't know much about gene editing but when they learn more about benefits, the majority feel positive about it.<sup>1,2</sup>

US consumers are especially excited about the role of gene editing in<sup>1</sup>:

- Making food more nutritious
- Reducing pesticide use
- Reducing water use





## Consumers Increasingly Seek Out Novel Produce Concepts



Bella Fina<sup>TM</sup> Baby Bell Peppers



**Cheddar Cauliflower** 



Sugar Bombs® Tomatoes



## The Importance of Win-Wins Along the Food Value Chain



Trade Offs



# Environmental Changes and New Societal Trends Drive a Growing Number of Objectives



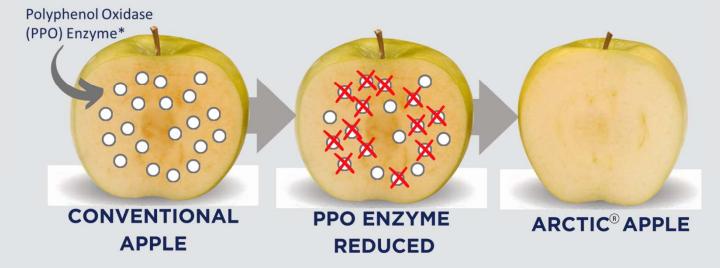
New breeding technologies could help address the needs across the value chain

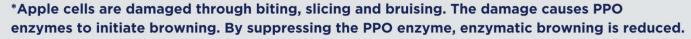
## Arctic® Apple – the nonbrowning apple





we simply used the apple's own genes to "turn off" the specific enzyme that makes apples brown when cut or bruised.







#### Why We Did It

#### Sustainability

- Less apple waste within the supply chain
- Less consumer waste "no more half eaten apples"
- 20 30% reduction in shipping weight (whole apples vs. slices)

#### Flavor

- Orchard Freshness Longer a sliced apple that does not have a flavor transfer from overuse of antioxidant
- Extended shelf life (>conventional apple's 14 days)

#### Health Benefits

- Increase apple consumption by providing a flavorful, convenient snack
- Studies have shown that kids are more apt to eat fruit or veggies when it is sliced









#### Biotechnology Foods are the Safest Foods

• >3000 scientific studies have assessed the safety of these crops in terms of human health and environmental impact

• 284 scientific institutions globally recognize that GM crops are safe



"...no substantiated evidence of a difference in risks to human health between current commercially available genetically engineered (GE) crops and conventionally bred crops, nor did it find conclusive cause-and-effect evidence of environmental problems from the GE crops."





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