

Introduction



Our Mission:

We believe healthy food should be convenient, affordable and sustainable.

Diet is #1 cause of poor health in America

- Up to half of cardiovascular, stroke and diabetes deaths are result of diet*
- Low-income and minority populations are especially impacted*

*JAMA. 2017;317(9):912-924. doi:10.1001/jama.2017.0947



Junk Food

US Salty Snacks = \$24B industry

- Convenient
- Cheap
- Everywhere



Fresh produce

US Produce Industry = \$120B

- Usually requires prep
- Best items can be expensive
- Hard to find in food deserts



Our Founders

Proven leaders in technology and agriculture, experienced in bringing products to market



Tom Adams, CEO

30 years of scientific leadership at Monsanto and Millennium Pharmaceuticals



Haven Baker, CBO

Launched the Innate potato, one of the first ag biotech products in the US with both farmer and consumer benefits.

Co-founders



Feng Zhang
MIT, Broad Inst.
developed the
CRISPR-Cas9
system for gene
editing in
eukaryotic cells



David Liu Harvard pioneered base editing



J. Keith Joung
Mass General Hospital
invented and
optimized
important
innovations in
gene-editing
technology



Our funding

\$25M

Series A, Co-led by Bayer **Growth Ventures and** Deerfield Management



\$100M

Exclusive 5 year **research** collaboration with Bayer in Corn, Soybean, Wheat, Canola and Cotton



First ever ag deal for Deerfield



North Carolina Strength in Agriculture and Biotechnology Creates an Outstanding Opportunity for Pairwise



Greenhouse & Growth Facility

- 24,000 sqft of greenhouse
- 16 Growth chambers
- 40,000 sqft of head house & accessory space

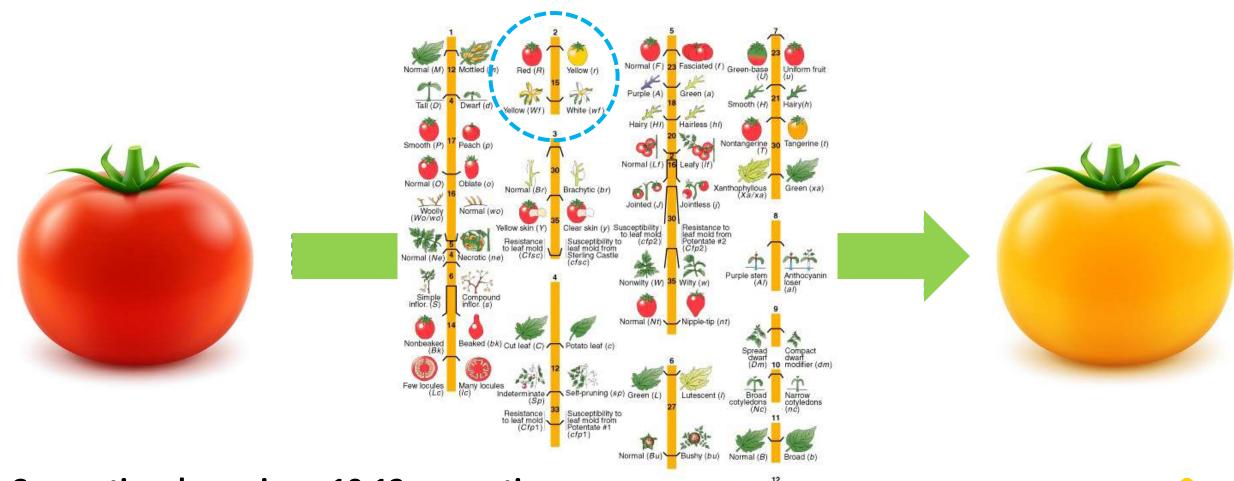


Downtown Durham Headquarters

- 36,000 sqft of cutting-edge office & lab space
- Historic textile mill building
- Expected move-in July 2019



CRISPR makes benefits possible that once took generations of breeding

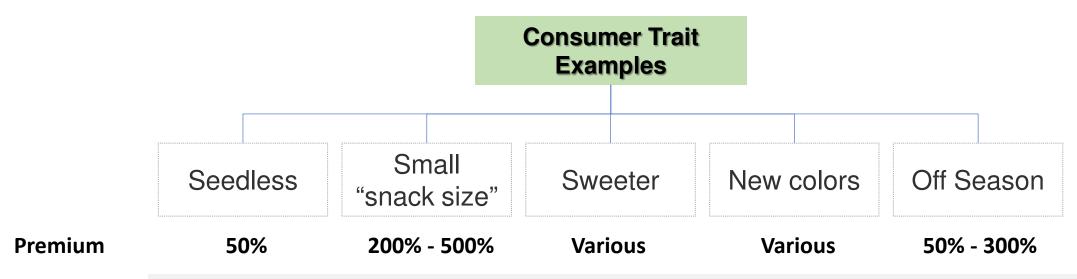


Conventional crossing = 10-12 generations CRISPR breeding = 1 generation





Consumers are willing to pay for convenience, availability, and sometimes taste



Demonstration of Consumer Willingness to Pay

Seedless fruits on the market today are associated with avoiding "spitting out seeds" They capture a 25-75% price premium. Seedless mango premiums should be higher as they provide even more convenience by enabling easier cutting and preparation.







The convenience of baby carrots contributed to a doubling of the U.S. carrot market within 10 years of their introduction



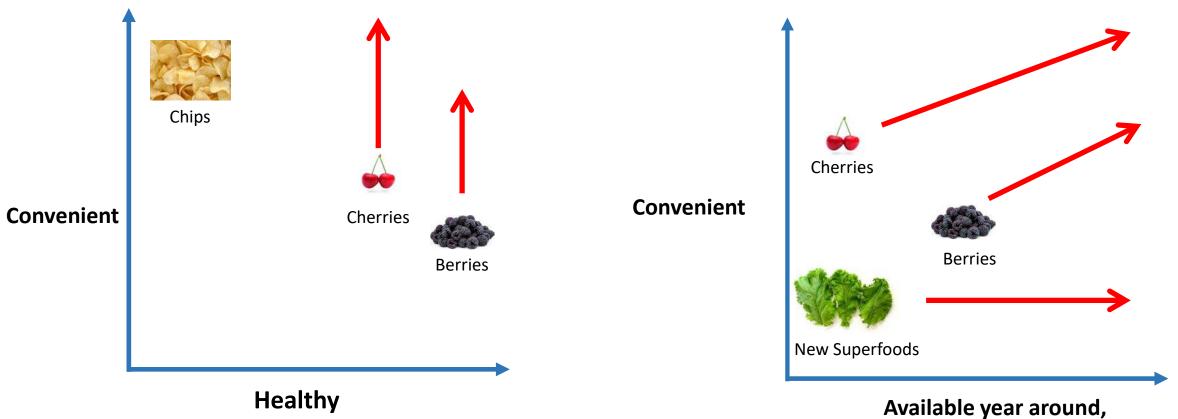
Fresh cut produce (such as mangoes), which represent the extreme end of convenience, gather >500% price premium over fresh whole





CRISPR can Deliver Healthy Consumer Choices

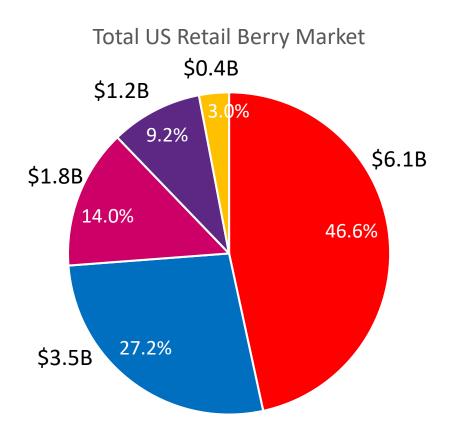
- 1) Drive Healthy Snacking through Convenience
- 2) Make new, healthy produce (superfoods) available



PAIRWISE

with good quality

North Carolina is a Prominent Producer in the \$13 Billion US Retail Berry Market



Berry	Average Retail Price (per pound)	Market Growth 2017	Peak season	Production Regions
Strawberry	\$2.56	+2.2%	Feb-Sep	CA, FL, NC, Mexico
Blueberry	\$4.74	+8.4%	Dec-Aug	CA, FL, MI, NC, NJ, OR, WA, Canada, Chile
Raspberry	\$7.47	-0.1%	Jun-Sep	CA, OR, WA, Canada, Mexico, Chile
Blackberry	\$6.03	+8.8%	Jun-Aug	CA, GA,OR, NC, Chile, Mexico

- All berries are essentially available year-round
- Table shows regions that sell to US
- Retail prices and growth rates from 2017 IRI scan data

■ Strawberries ■ Blueberries ■ Raspberries ■ Blackberries ■ All Others

Retail sales values based on doubling of 2017 IRI scan data



Vision: Regional Partnership and Infrastructure to Deliver Locally Farmed Fresh Produce

Example: New, differentiated berry products

- Partner with breeder
- Berries are already "closed loop"
- Improved margins

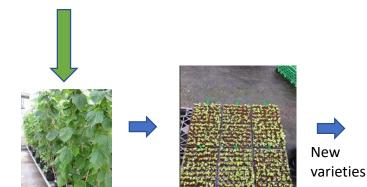




Pairwise partnership w leading berry breeder



Pairwise partners with or buys berry Packer/shipper/ marketer

















Berry Partner

Packer/shipper

What makes us unique



Our technology

- Exclusive license to baseediting IP & MGH enzymes
- Comprehensive CRISPR IP
- Partnership with Bayer gives us access to expertise in transformation techniques, data science and IP
- Access to the world's leading CRISPR experts



Our team

- Track record of successfully bringing products to market
- One of the world's largest gene editing groups
- Diverse range of expertise in food, marketing, & crop genetics



Our mission & culture

- Focus on creating differentiated consumer products
- Open to deep collaborations
- Courage to tackle noncommodity crops that have been underserved by other methods

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Thank You

