

Accelerating the leap to nature-positive agriculture

Chris Judd
CC) Invaio Sciences

invaio™ Leaving every
acre better



The innovation gap in crop protection is unsustainable...

Discovery waning

~\$300M & 10 yrs to discover, Big Ag **not** bringing alternatives

Residues

Consumer & Regulatory pressure to ban synthetic chemical pesticides

Resistance

Overuse reducing efficacy of existing tools

Biological adoption

Cost and Consistency limits grower adoption

Invaio revolutionizes crop protection by designing nature-inspired bioactive molecules

Faster discovery and design

~\$20M & 5 yrs to bring **novel peptides** to market

Biodegradable

Environmentally friendly, no toxic residues, safe for pollinators

New modes of action

Alternatives designed to meet farmers most difficult pest challenges

Reliable

Efficacy of synthetics with biological sustainability – meeting grower's needs

Invaio at a glance



Data powerhouse

Predictive design engine
 Proprietary ML language models
 Peptide Bio acquisition
 Flagship Pioneering Intelligence collaboration



Unique approach

Biologicals by Design™ - novel products matching:

- Stability and efficiency of synthetic pesticides
- Sustainability and environmental profile of biologicals



Unmatched performance

Tackling the world's most challenging crop pests
 From design to field testing in less than 6 months
 Engineered for scalability



Expert team

R&D, Operational, and Commercial veterans from major ag players
 Scientific advisory and Board of directors' members among the world's most respected

✓ Invaio Locations



Cambridge, MA (HQ)



São Paulo, Brazil



✓ Research Centers



Durham, NC



Barcelona, Spain



São Paulo, Brazil



São Paulo, Brazil

Invaio has built the new model for crop protection innovation through *Biologicals by Design*TM

We design and deliver new bioactive solutions that have

biological benefits with synthetic chemical performance

Rapid, precise design and pipeline

3-5 years and \$15-\$25M from discovery to first sales

Better for environmental and human health

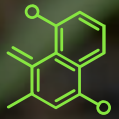
Novel biomolecules designed for safety

Bridging gap between synthetics and biologicals

Effective, easy to use, scalable

Our vision: Accelerate the leap to nature-positive agriculture

Peptides represent the next frontier in crop protection, combining synthetic performance with biological advantages



SYNTHETIC PERFORMANCE

- **Efficacy:** Intentionally designed for high potency at low rates
- **Consistency:** More reliable performance compared to live microbials
- **Lower cost:** Optimized for lower COGS



BIOLOGICAL ADVANTAGES

- **Nature-based:** Naturally-occurring with a diverse array of complex biological functions
- **Biodegradable:** Low environmental impact and minimal off-target effects
- **Favorable regulatory:** Faster speed to market, less resistance; fewer restrictions



VIA INTENTIONAL DESIGN

- **Programmable:** Designed to hit specific targets; able to modulate spectrum of activity
- **Scalable:** Designed for manufacturability; can be produced through established fermentation processes

We are tackling the biggest challenges for the greatest impact

Global crop protection
market value
\$100B

Fungicides,
Insecticides, and
Bactericides
represent
~55% of the
market.

<p>Perennials Tree, Nut & Vine</p>		<ul style="list-style-type: none"> • 2026 launch of Trecise™ Citrus Greening solution in Brazil, 10M trees in year 1. • Trecise™ partnership evaluation occurring in China and South Africa. • Next generation Citrus Greening peptide evaluation trials this winter. • Advancing critical bacterial control peptides to in-planta studies (Xanthomonas, Erwinia) (\$1.5B market)
<p>Fruits & Vegetables</p>		<ul style="list-style-type: none"> • Advancing Botrytis peptide (INV022) into year 2 field trials in strawberries, grapes, tomato in preparation for registration submission • Co-occurring disease studies ongoing with Powdery Mildew, Downey Mildew and Athracnose
<p>Broad-acre row crops</p>		<ul style="list-style-type: none"> • Asian Soybean Rust product entering development trials in 2025 • Active partnering discussions regarding our 1st Generation Fusarium Head Blight peptide, based on positive early results • Active collaboration discussions ongoing regarding sclerotinia and tar spot diseases



invaioTM

Leaving every acre better



A Flagship Pioneering Company