

The Latest Breakthroughs, Unlocking the Full Potential of Seed

The past decade brought major advances in genomics, artificial intelligence and multiplex gene editing. The SEEDesign™ technology platform harnesses each of these cutting-edge developments to drive transformative improvements in yield and resource use efficiency.



HERE'S HOW

The SEEDesign™ Technology Platform

Predictive Design



The Blueprint

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C
BUILDING AN EVER-DEEPER
UNDERSTANDING OF PLANTS'
COMPLEX INNER WORKINGS

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Multiplex Gene Editing



The Toolbox

EXECUTING MULTIPLE EDITS AND
EDIT TYPES, ALL AT THE SAME
TIME

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THE DETAILS

Predictive Design

The Blueprint

Plant genetics are incredibly complex. They're big - the wheat genome, for example, is five times the size of the human genome. Perhaps more critically, however, the most impactful characteristics are driven by not one or two native genes, but by intricate networks in which many of these genes work together.

With access to the latest advances in genomics and artificial intelligence, we develop and analyze a constantly growing trove of data - from sequence to phenotype to field and back. The resulting Predictive Design blueprints confidently guide our plant scientists to determine which gene edits will not only be effective, but the most effective.

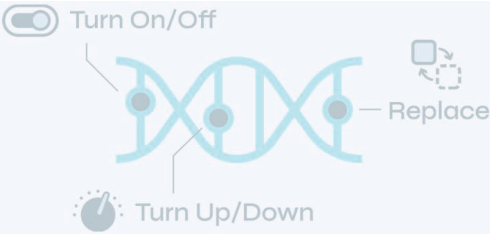


Advanced Multiplex Gene Editing

The Toolbox

Inari is a leader in multiplex gene editing, with the revolutionary ability to execute a variety of edits and edit types to multiple genes, all at the same time. Our plant scientists can simultaneously turn genes on and off, dial up or down a gene's expression to increase or reduce its effects, and - through our patented PRIDE™ technology - make highly precise gene replacements. We're also just getting started: Our toolbox continues to grow with new and refined capabilities.

Because this process works with plants' natural DNA, the resulting modifications are similar to those seen in traditional breeding, but with far more precision and far fewer resources - and crucially, in far less time.

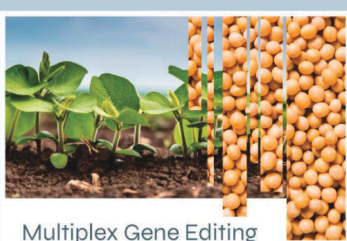


WHITE PAPERS

Multiplex Gene Editing: The Key to Unlocking the Full Potential of Seed

Take a deeper dive into multiplex gene editing, how it compares to existing breeding technologies and its crucial role in the future of agriculture.

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Multiplex Gene Editing

The Key to Unlocking the Full Potential of Seed — and the Future of Agriculture

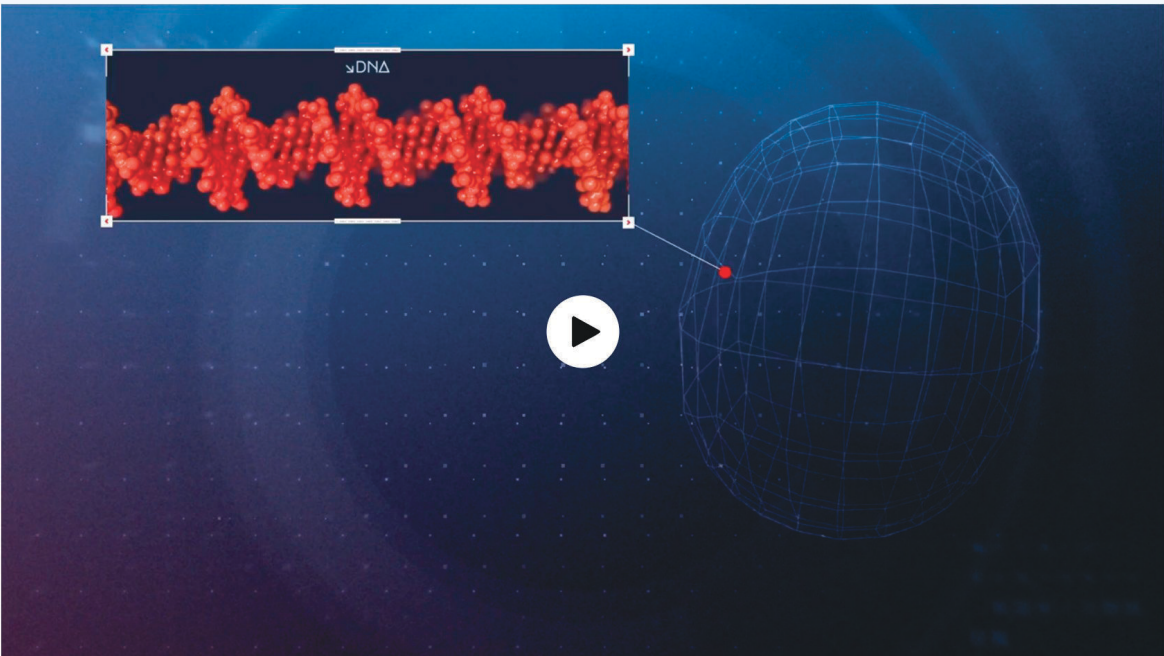
We are at a crucial moment in history. The effects of climate change are undeniable, and agriculture is tied to more than 10% of greenhouse gas emissions in the U.S. alone. Farmers are of course inherently committed to conservation — after all, few businesses are as dependent on natural resources. But to sustainably address the changing environment while growing enough to keep up with a rapidly growing global population, farmers also need new technology and tools.

There is no other bullet to solve the climate crisis. However, the recent confluence of major technological advances offers society a unique opportunity to take a major leap forward in improving the resilience and sustainability of our global food system.

This change starts with seed — seed that requires fewer natural resources while continuing to produce enough food and feed. The key is an approach called **multiplex gene editing** — a new and powerful breeding technique with the potential to meaningfully change how plants grow and have a nature-positive impact on the planet.

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ENDLESS POSSIBILITIES



Ensuring a More Plentiful Future

Our technology platform has the potential to transform any crop in any geography, with endless possibilities. To achieve the greatest sustainable positive impact, we're starting with the crops that have the largest footprints: corn, soybeans and wheat, which cover more than 500 million acres across the Americas alone.

But this is just the beginning.

LET'S TALK

Let's Grow Together

GET IN TOUCH TODAY

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