



**Revolutionizing agriculture for good.™**

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## About Oerth Bio

Oerth Bio (pronounced “earth”) is an agricultural biotech company working to reduce the environmental impact of agrochemical solutions and nourish a growing population with the eco-friendly, healthy foods it demands. The company develops sustainable, environmentally-designed crop and farm solutions with unprecedented ability to fine-tune crops—protecting them from pests, enhancing resilience to changing environmental stressors, increasing nutritional value, and strengthening post-harvest durability.

Oerth Bio was formed in 2019 as a joint venture between Arvinas (ARVN) and Bayer (BAYRY), supported by \$56 million in funding and operational support from Bayer, and sole agricultural license of PROTAC® technology and IP from Arvinas.

Initially developed to fight human diseases like cancer and other difficult to treat diseases, Oerth’s patented PROTAC (PROteolysis TARgeting Chimera) protein degrader technology for agriculture provides an innovative pathway to entirely novel crop protection and climate resilient farm products. Oerth Bio is pioneering the agricultural deployment of PROTAC solutions.

## About Oerth’s PROTAC® protein degrader technology

Oerth Bio’s protein degraders for agriculture aim to combine powerful efficacy with next-generation environmental sustainability. The technology is designed to deliver unparalleled safety of food and feed, while achieving superior field performance for farmers.

**The core technological innovations driving Oerth Bio’s progress are:**

### PROTAC Molecules

PROteolysis TARgeting Chimeras (PROTAC) compounds are biologically enabled molecules designed to induce the modulation of specific proteins via the ubiquitin- proteasome system. Each region of the PROTAC molecule plays a role in its specificity and potency.

### Attune™ Platform

Attune is Oerth Bio’s proprietary R&D platform for developing PROTAC molecules for agriculture. Through a rational target-based design process, Oerth’s Attune platform creates, synthesizes, tests, and optimizes molecules for specific crop applications and outcomes.

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## About the Attune™ Platform

Oerth Bio's Attune platform harnesses and ignites natural biological systems existing within all animals, plants, insects, and fungi. These systems are responsible for regulating cellular harmony. Pre-factoring desired environmental precision and required performance outcomes, Oerth Bio is developing a range of crop protection and valuable trait enhancement assets. The company's platform targets, modulates and "tunes" these systems within specific agriculture-related species.

### Oerth Bio is developing programs to:

- Protect crops from weeds, invasive species, pests, fungi, and other threats, without harming the surrounding environment.
- Increase plant resilience through enhanced immunity, stronger root structures and density, and maximized nitrogen use to better handle harsh environmental conditions.
- Improve taste, appearance, nutritional value, and post-harvest efficiency of crops without altering the plant genome.

## Collaborations

Oerth Bio works with companies like Bayer in the core crop protection space, and others like Yara International for solutions in crop nutrition, water use efficiency, and other areas of crop enhancement.

*PROTAC® is a registered trademark of Arvinas Operations, Inc., and is used under license.*

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