

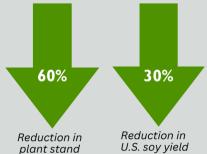


## PYTHIUM CONTROL POWERED BY JORD'S NOVEL MICROBIAL LEADS

## **PROBLEM: LACK OF EFFECTIVE SOLUTIONS FOR PYTHIUM**

- Pythium species are among the most significant soilborne pathogens affecting crop production, causing damping-off and root rot leading to heavy yield losses.
- Early planting provides many benefits, but increases the risk for early-season disease outbreaks in wet, cool soils.
- Current chemistry-based fungicides use aging modes of action that are threatened by increasing regulatory scrutiny and resistance risk.
- Biologicals offer new solutions, but current biological products are inconsistent due to product development processes designed for synthetic chemistries.

## PYTHIUM IMPACT ON U.S. SOY PRODUCTION



Farmers need new, diverse tools to combat Pythium risk.

SOLUTION: A FASTER, BIOLOGY-BASED APPROACH WITH NOVEL SOLUTIONS FOR HIGHLY-EFFECTIVE PYTHIUM CONTROL



# THE JORD MICROBIAL BANK GIVES A 30-YEAR HEAD START IN THE RACE FOR THE BEST-PERFORMING PRODUCTS

Extensive functionally-enriched collection of 6,500+ microbes assembled strategically from plants and soils across diverse long-term agricultural and natural habitats.

## THE JORD BIOSCIENCE BIOLOGICAL PLAYBOOK

Use the Jord BioScience Biological Playbook to find the right partner microbe that mitigates pythium, while bringing added functions to improve crop performance.



Activate performance of an existing product with Jord's additive functions (e.g., Pythium control) and signaling



Reduce complexity or eliminate underperforming product components by enhancing key performers, with Jord's partner microbes



Select stand-alone Jord isolates that can outperform existing biological or chemical active ingredients

Speed to Lead

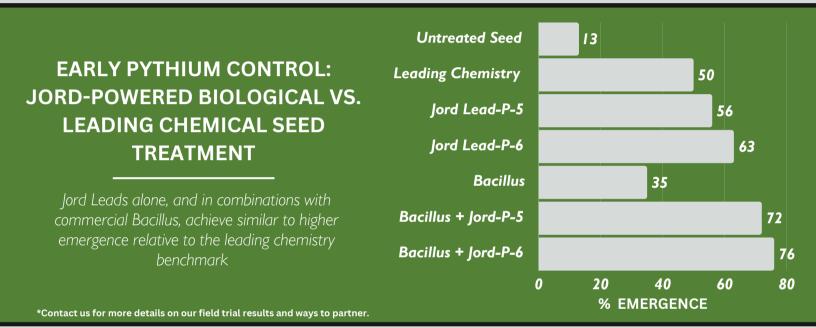
### **TRIAL DESIGN:**

Using our proprietary collection and analytics, Jord rapidly identified and selected top biofungicidal leads for independent, in-field efficacy against significant pythium pressure, conducted by a third-party expert in Pythium field testing. Jord's Leads were tested for a) ability to compete head-to-head with an industry-leading chemical fungicide and biofungicide seed treatments, and b) performance and compatibility with traditional chemical and biological seed treatments.\* NEXT PHASE: BESPOKE PRODUCT CONCEPTS OPEN FOR TRIALING AND LICENSING OPPORTUNITIES JANUARY 2025

EARLY DEVELOPMENT: IN-FIELD EFFICACY TESTING AGAINST INDUSTRY STANDARD FUNGICIDE SEED TREATMENT

#### JANUARY 2024

DISCOVERY: ANALYTICS AND JORD ISOLATE SCREENING TO IDENTIFY TOP BIOFUNGICIDE LEADS



#### **TRIAL RESULTS:**

- When used alone or in combination with other biologics, Jord Leads acted quickly and with similar or higher efficacy compared to the industry standard chemical fungicide.
- Jord's Leads drove significant improvements upon the effectiveness of current pythium biological control microbials, providing a powerful, biologically based alternative in crop protection.
- Jord's Leads demonstrated strong compatibility with conventional chemistries, providing opportunities for next-gen product concepts and integrated treatment programs.

Commercial Opportunity

#### Partner with Jord BioScience to fast track your next generation of better-performing, high-value biological solutions.

This research resulted in four novel microbial product solutions validated and available for development partnerships or licensing opportunities with biologicals companies, seed companies or other input providers.

COMMERCIAL PARTNERSHIPS & GENERAL INQUIRIES Dr. Keri Carstens President, CEO partnerships@jordbioscience.com

#### JORD BIOSCIENCE

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