

## Sarborg Publishes PRISM: A Cross-Species Connectivity Mapping Framework for Translational Agriculture

WILMINGTON, De -- April 7, 2026 -- Sarborg Limited (“Sarborg” or the “Company”), today announced the publication of its research paper titled “*PRISM: cross-species connectivity mapping of plant intervention and stress signatures for translational agriculture.*”

PRISM (Plant Response to Intervention and Stress Signature Mapping) represents a novel framework for applying connectivity mapping to plant biology, enabling the systematic comparison of transcriptomic signatures to identify functional relationships between interventions and plant stress states. While connectivity mapping has become a foundational tool in human drug discovery, no equivalent large-scale, multi-species resource has previously been developed for agriculture.

The PRISM platform integrates thousands of publicly available transcriptomic datasets across multiple plant species to construct a unified, organism-agnostic connectivity engine. This enables the identification of non-obvious relationships between chemical treatments, genetic perturbations, and environmental stress responses, supporting applications such as crop protection, intervention repurposing, and rational mixture design.

By translating plant biology into structured, machine-interpretable signatures, PRISM extends Sarborg’s core Signature Intelligence framework into the agricultural domain. The platform allows for rapid, large-scale analysis of intervention–response relationships that would traditionally require extensive experimental screening, significantly accelerating discovery timelines.

Importantly, PRISM demonstrates the ability to:

- Identify functional relationships between plant interventions and stress states
- Predict combination effects from individual component signatures
- Transfer biological insights across species through conserved transcriptomic programs

These capabilities establish a foundation for data-driven, mechanism-informed approaches to agrichemical development and crop optimisation.

Sarborg believes PRISM represents a significant advancement in translational agriculture and a key extension of its cross-sector Signature Intelligence platform. By applying the same underlying principles used in pharmaceutical discovery to plant systems, the Company is expanding its ability to generate high-value insights across multiple industries, including agrichemicals, crop science, and industrial biology.

The publication further strengthens Sarborg’s position as a leader in signature-based AI, demonstrating the scalability of its platform beyond pharmaceuticals into broader biological and chemical systems.

The full paper can be accessed here: [PRISM: cross-species connectivity mapping of plant intervention and stress signatures for translational agriculture](#)

“PRISM is a natural extension of our core thesis that signatures act as a universal data language,” said Mark Taylor, Director of Sarborg. “By applying connectivity mapping to plant biology, we are enabling a new approach to agrichemical discovery that is faster, more systematic, and fundamentally data-driven.”

### **About Sarborg Limited**

Sarborg is an agentic AI signature intelligence business, built on the principle that signatures can function as a universal data language to identify, interpret, and generate high-value opportunities across multiple sectors. By analysing, matching, and learning from biological, chemical, and industrial signatures, Sarborg’s agents create a continuously evolving network of intelligence-driven insights.

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