



vineland
RESEARCH & INNOVATION CENTRE

Plant Metabolomics

Deeper insight into plant biology to support crop innovation and applied research.

Reveal the signals behind plant performance

Plants and other biological materials contain thousands of natural chemicals that provide valuable clues about growth, resilience, quality and responses to stress.

At Vineland, we turn these complex chemical signals into practical insights to support research, product development and innovation.

What Can Metabolomics Help You Understand?

-  **How plants respond** to stress, disease or environmental conditions
-  **What changes** following a treatment or intervention
-  **Why varieties or treatments perform differently**
-  **Which chemical markers** are linked to desirable traits or responses
-  **How and why** a product or treatment works

Why Vineland?

Horticulture expertise. Advanced analytical capabilities. Practical interpretation.

We don't just generate data. We help you understand what it means and how it can inform your next decision

Turn complex chemistry into actionable insight



Define the question

We work with you to understand your research goals and determine the right approach.



Analyze the chemistry

Using mass spectrometry-based metabolomics, we profile the chemical composition of your samples.



Identify key signals

We uncover differences, patterns and potential markers associated with treatments, traits or biological responses.



Generate actionable insight

Our scientists interpret the results in the context of your project, helping you understand what the data means and how it can inform your next step.



What could metabolomics reveal for you?

Scan the QR code to learn more

