



VICA™ Capabilities Overview

Explore more options. Focus your next study.

Pavonis Diagnostics helps research teams compare molecular binding, specificity and kinetics using VICA™, a label-free platform with colour-active slides and a compact optical reader.

Use VICA™ early to compare candidates and conditions, identify less promising options and focus further investigation where it matters most.

What can you Investigate?

- **Binding & Specificity:** Compare candidates, targets and competing molecules.
- **Affinity & Kinetics:** Examine binding strength, association and dissociation.
- **Experimental Conditions:** Investigate the effects of sample matrix, reagents and conditions.

Who it Serves

Biopharma & Biotech · AI-Driven Discovery · Life Sciences · CROs · Academic & Government

Research and Industry Applications

- **9Bio:** Binding validation for antibody discovery.
- **Future Fields:** Designed bespoke assays for production and quality control of novel proteins.
- **Seneca Polytechnic:** VICA™ kits for teaching and research using immunoassays.
- **Dr. Rachel Khadaroo, University of Alberta:** Research and diagnostics kits for rapid assessment of intestinal ischemia.

Research Support & Affiliations

The VICA™ Advantage

More Flexibility. Lower Costs. Broader Exploration.

- Lower equipment costs than traditional binding-analysis instruments.
- Explore more options early before investing in extensive characterization.
- Small sample requirements when research material is limited.
- Multiple experiments on one slide, keeping the surface consistent, with reuse in suitable assays.
- Flexible sample types and formats, including selected solid-phase and solution-phase assays.
- Sequential measurements to follow binding as proteins or reagents are added.
- Label-free detection without attaching detection labels to the molecules being studied.
- Multiplexing capability to investigate multiple interactions in suitable assays.
- Rapid results, under 15 minutes in supported assays.
- Portable equipment for suitable measurements in the laboratory and field.
- Ease of use, without dedicated sample cartridges.
- Long-term slide storage.
- Access without purchasing equipment through a Pavonis-run pilot or service study.

Published Research

VICA™ has been used in peer-reviewed studies published in ***npj Biosensing***, ***Nature Communications*** and ***Molecular Pharmaceutics***, spanning protein interactions and peptide-binding research. Explore the publications and example data at pavonis.ai.

Let's Explore your Research Question!

Tell us what you're investigating and what you want to learn. We'll work with you to plan a VICA™ study, interpret the findings and identify promising next steps.

Discuss a VICA™ study

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PAVONIS
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