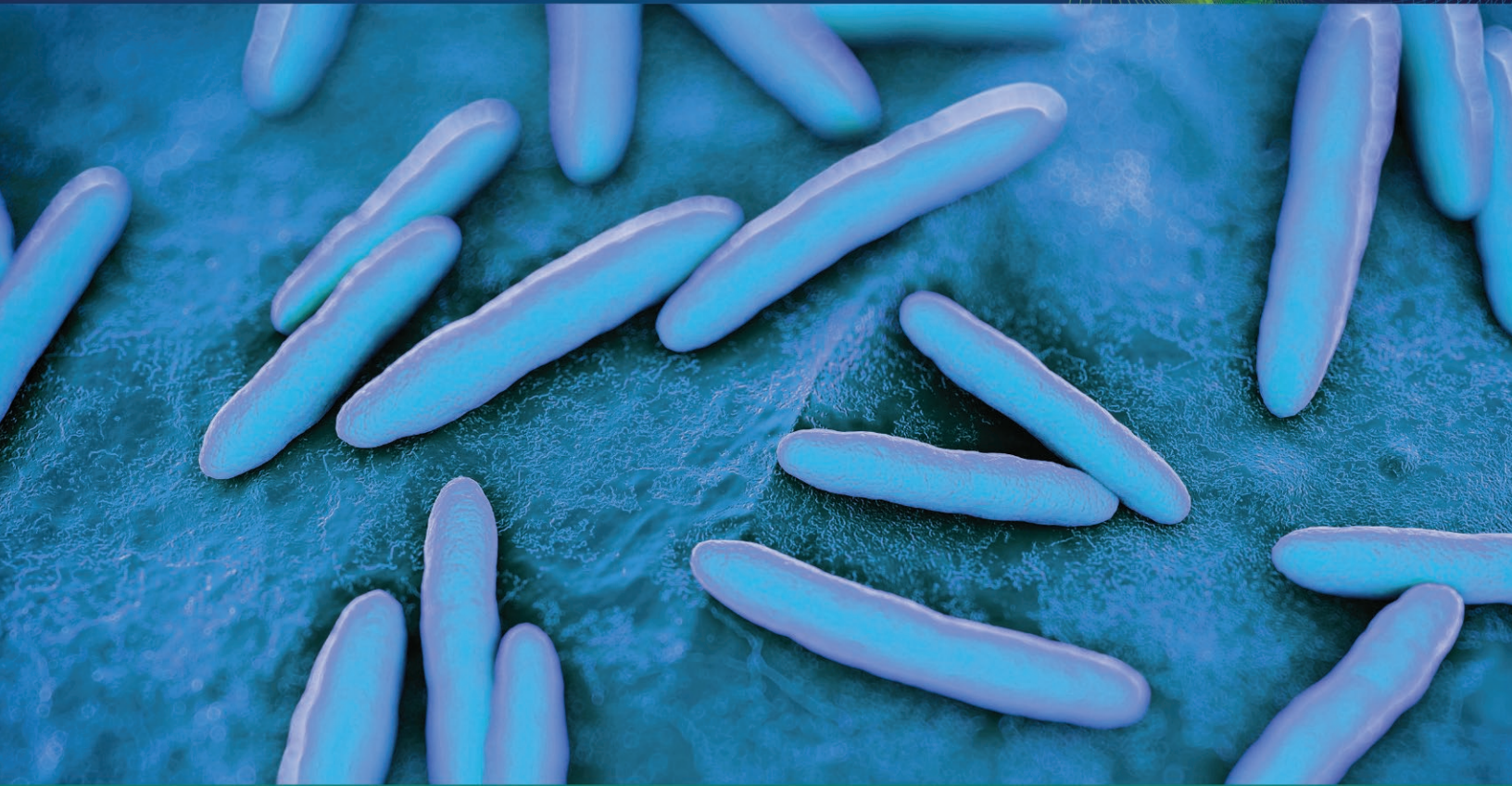


Accelerating Innovations into CarE – Validate Program (AICE-Validate)



Using antimicrobial silver coatings for medical devices and wound-care products

PROJECT FAST FACTS

RECIPIENT: Innovotech Inc.

AWARD: \$300,000

AWARD DATE: November 15, 2023

PROJECT DURATION: 24 months

THE PROBLEM

Canadian hospitals see nearly a quarter million infections annually, costing the health system nearly a billion dollars. To combat this, medical equipment is being coated with antimicrobial products to help prevent the spread of germs. The challenges with incorporating the use of antimicrobial coatings into medical settings include ensuring products are compatible with device production techniques and with materials, packaging, solvents and other product exposures during use. Further challenges involve determining the product's shelf life, ensuring adequate antimicrobial activity for an appropriate amount of time. Developing antimicrobial or antiviral surfaces with long-term stability and appropriate release properties would address most, if not all, of these concerns.

THE SOLUTION

Innovotech is redeploying its unique silver-based antimicrobial compound InnovoSIL™-1 for use as a surface coating. InnovoSIL™-1 can be used as an antimicrobial coating on medical devices and wound-care products. The product can be readily applied to various surfaces including metals, polymers and textiles. It has unique ability to combat many types of germs and biofilms while preventing organisms from adhering to surfaces.

PROJECT OBJECTIVES

Innovotech is working to reach the following objectives:

- 1. Develop and validate new manufacturing methods to scale-up InnovoSIL™-1 silver production to meet increased market demands.*
- 2. Further characterize InnovoSIL™-1 silver properties, including antiviral capabilities to expand potential scope of uses by the market.*
- 3. Validate various coating processes that can be offered for use by collaborators.*

ABOUT THE AICE-VALIDATE PROGRAM

AICE-Validate is an opportunity for Alberta's health-tech innovators to accelerate commercialization of digital and data-enabled health technologies through the early validation phase. If you'd like to learn more, please check out [AICE Validate on the Alberta Innovates website](#).

Learn how

albertainnovates.ca