

NSERC CREATE
Technology-Enhanced Pharmaceutical
Discovery (TEPD)
Student Biography

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I am a PhD student working on lateral flow immunoassays (LFIAs) to improve sensitivity and accuracy. My current projects including incorporating fusion antibodies into LFIA for SARS-CoV-2 RBD protein detection, and using electrophoresis enhancement to deliver conjugates that form multilayered complexes to enhance signal; aim to deliver enhancement reagents for electrophoresis from alternative channel to LFIA test strips. I am also involved in developing a mobile application that uses machine learning to read LFIA test strip results for diagnosis.