

Project Title	Molecular mini-panels for the rapid detection of highly transmissible pathogens
Principal Investigator	Michel Bergeron
Principal Institution	CHU Quebec - Laval University
Summary	
<p>Infectious diseases monopolize a large part of the human and material resources in hospitals in Quebec and on a global scale. The team is proposing an innovative approach to reorganizing care to better manage infectious diseases by triage in the emergency department through molecular mini-panels for the rapid detection of highly transmissible pathogens. The proposed approach will help relieve emergencies, prevent hospitalizations, reduce antibiotic consumption and prevent transmission of infections in health facilities and the community. The team proposes, in partnership with GenePOC Inc., to develop mini-panels of molecular tests on the revogene™ platform. While a first mini-panel targeting respiratory infections will detect the main infectious agents such as Influenza A, Influenza B and RSV, the second mini-panel will target the most contagious enteric infections in institutions. In order to support the impact analysis of the project, Nosotech will provide comprehensive data on infection rates, antibiotic consumption, length of stay, isolation and the use of various diagnostic tests. Finally, a cost-benefit study will measure the socio-economic impact of the approach.</p>	