



# Rapid COVID-19 Testing System, Poised to Reset the World.

Imagine you could press a reset button and enter a world like the one you used to know. A pre-pandemic world in which person-to-person, face-to-face interactions were the norm, travel was promoted, and economic sustainability was free of paralyzing pandemic restrictions.

As the world continues to be crippled by the pandemic footprint, Canadian company Bio-Stream Diagnostics Inc. refuses to settle for the notion that "this is the new normal". At Bio-Stream, a collective group of leading scientists has been working diligently to bring a rapid COVID-19 testing system to market. The team consists of experts in the fields of virology, molecular microbiology, chemistry, machine learning, engineering/physics, and spectroscopy.

At this point, the laboratory results are incredibly promising, yet CEO John Murphy reiterates, "real life is a different story and offers many challenges that we're working to overcome". Confidence grows with each step forward because continued progression helps solidify the promising possibilities of this multi-disciplinary technology.

Bio-Stream's leadership and scientific team consider this project a tremendous honor, privilege, and massive responsibility - because restoring a sense of global safety and certainty is indeed, no small task.

"With this many brilliant minds working together, there are a lot of critical pieces that need to align, which of course takes time", says John.

"Despite the urgency for the world to get back to a sensible normal, it's important we get this right, ensuring both reliability and validity of the tool and system. We're taking the necessary time so we can offer guaranteed results, rather than rushing to market with a product prior to gaining the certainty and validation we're confident we can achieve", says President Rashid Bux.

Current development is focused on an enhanced biotech machine, which combines microbiology, spectroscopy, advanced nanoparticle technology, antibody customization and machine learning.

Despite its complexity in design and development, the final product will be a rapid test (under one minute) "on the spot" screening tool geared towards accuracy, ease of use, and convenience. Likewise, sustainable testing and accessibility will be supported by the low cost per test (under \$5). Further adding to its appeal, the test utilizes a simple non-intrusive saliva sample, which stands in stark contrast to the nasal swabs used in the current standard of PCR testing. The test is designed to identify early viral infection even before natural immune antibodies have not been generated.

Designed for high-volume usage, Bio-Stream's test is an ideal perfect match for high traffic contexts such as airports, sporting events, concerts, theaters, and stores, while also providing certainty for entry into schools, universities, places of worship, and workplaces.

Holding the knowledge that everyone within proximity has tested negative for the virus, you can feel free to interact with others without the fear of infection. Freedom to be close to loved ones, collaborate productively with co-workers, travel without limits, and enjoy public entertainment without being preoccupied with masks and physical distancing.

Scientific team member Professor Dr. Horacio Bach a molecular microbiologist and esteemed researcher in pathogenic virulence factors, nanomedicine, and antibody engineering says, "Our system will be different compared to PCR linked tests. The PCR test looks for the genetic material of the virus (nucleic acid, RNA genome) in a sample, while our test is designed to identify the virus itself, the *whole infective COVID-19 virus*, at the onset of infection."

The clinical intent of the test is to not only match the existing PCR gold standard but exceed it, offering higher sensitivity and specificity, faster and more economically. This will allow for the virus to be detected earlier within an infected carrier, enabling knowledge of the virus prior to symptom onset. Not only will this knowledge allow the infected individual to seek further diagnostic testing, intervention and treatment sooner, it will also help mitigate the rate of infection and spread of the virus when responded to appropriately.

BIOSTREAM DIAGNOSTICS INC.  
Press Contact: John Murphy  
Phone: 780.665.1599  
Email: [JMurphy@Bio-Stream.ca](mailto:JMurphy@Bio-Stream.ca)