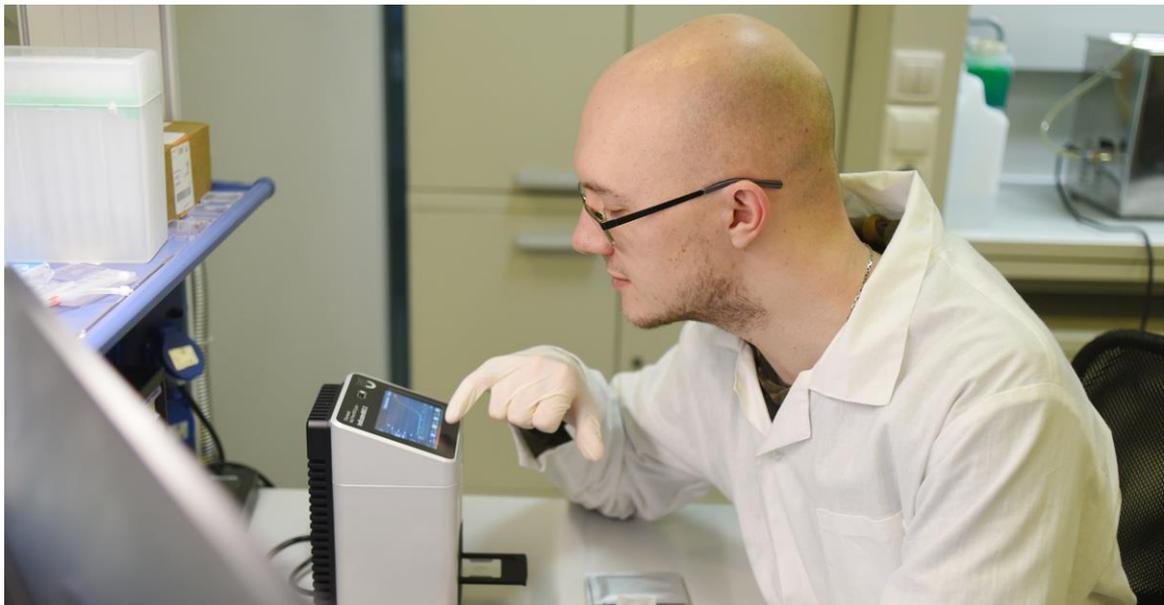


June 17, 2020

Indicator-BIO Analyzer for Rapid Detection of COVID-19 from TechnoSpark's Start-Up Passes Government Testing

Indicator-BIO analyzer for detecting the novel Coronavirus outside of lab settings has successfully passed government testing. The device was designed by [Troitsk Research and Development Center \(TRDC\)](#), a member of TechnoSpark Group of companies, which is a part of the [investment network](#) of RUSNANO Group's Fund for Infrastructure and Educational Programs. Testing was conducted at TechnoSpark Group's facilities.



Indicator-BIO analyzer

Indicator-BIO, a point-of-care PCR analyzer, was designed as part of Federal Target Program “National System of Chemical and Biological Safety of the Russian Federation”. It was commissioned by Pirogov Russian National Research Medical University, which also collaborated on this project. The Troitsk Research and Development Center started to work on it in 2018.

“The Indicator-BIO will help make testing people in offices, remote locations and at manufacturing sites the new norm. Together with other anti-epidemic

measures, this will help prevent the spread of COVID-19 and other infectious diseases in companies and institutions,” said **Denis Kovalevich**, CEO of the TechnoSpark Group of Companies.

Denis Rebrikov, the head of analyzer development project and R&D Vice-Rector at Pirogov Russian National Research Medical University, said the main advantages of the device were its small size, portability and rapid testing capability. According to Denis Rebrikov, the Indicator-BIO is a stand-alone, battery-powered device, which can, therefore, be used in mobile test sites in remote locations. Test results from the device are transferred to the communicable diseases surveillance and response center via Wi-Fi. “All of this allows us to perform tests under almost any field conditions,” pointed out **Denis Rebrikov**. “This device is especially useful in the current COVID-19 pandemic.”

The Indicator-BIO analyzer can be used to help diagnose not only the novel COVID-19 but also other infectious diseases.

“The device was designed to detect any pathogens, both viruses and bacteria. It can identify various genetic traits of a person as well as genetically modified components in food. Targets tested depend on reagent combinations that single-use cartridges are pre-filled with. We are ready to mass produce the Indicator-BIO, which is now available for pre-order,” said **Evgeny Gorsky**, Troitsk Research and Development Center CEO.

During government testing at TechnoSpark Group’s facilities, the Indicator-BIO was able to simultaneously detect four different pathogens, placed in a microfluidic cartridge, without yielding either false-positive or false-negative results, with the aid of polymerase chain reaction (PCR, an amplification technique fundamental to much of genetic testing). Hence, the device was proven to live up to its specifications. Microfluidic cartridges for the test kits were also designed by Troitsk Research and Development Center.

In March 2020, before the device was completed, experts from Federal Research and Clinical Center of Physical-Chemical Medicine of Federal Medical Biological Agency showed that the Indicator-BIO, using required test kits and reagents for detecting the novel SARS-CoV-2 coronavirus, was able to detect COVID-19 within 15 minutes as compared to 4-5 hours when testing was conducted by laboratory PCR.

Troitsk Research and Development Center is a company engaged in the high tech engineering sector, including development of optical-electronic systems and appliances as well as embedded software, and preparation of plans for optical-electronic device manufacturing processes.

For more information about the company, visit trdc.com

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The TechnoSpark Group of Companies, a part of the [investment network](#) of the Fund for Infrastructure and Educational Programs, is involved in all aspects of venture creation: from establishing a [start-up](#) to its sale. The TechnoSpark Group of Companies is in the hardware industry, working in areas, such as robotics in logistics, energy storage systems, hi-tech medical equipment, diamond optics, braided composites, optical and industrial surfaces, genomics, industrial microbiology, thin-film integrated photovoltaics, additive technologies and flexible electronics. The Group of Companies is in first place according to the national rating of Russia's most effective technology parks. It was included in the Fast-Growing High-Tech Companies National Rating, TechUp 2019. The TechnoSpark Group is also a part of the global community of startup studios, the Global Startup Studio Network (GSSN).

For more information about the company, visit technospark.ru

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The Fund for Infrastructure and Educational Programs is one of the largest institutions of developing innovative infrastructure in Russia. It was founded in 2010, on the basis of the Federal Law On Reorganization of the Russian Corporation of Nanotechnologies.

The objective of the Fund is financial and non-financial development of nanotechnology and other high-tech sectors of the economy by implementing nation-wide projects; building and developing innovative infrastructure; transforming further education programs by creating new trainings and educational tools, and providing institutional and informational support which facilitates introducing technological solutions and finished goods, including those in the field of end-to-end digital technologies, in the market.

The Chairman of the Fund's Executive Board, as the collegial management body, is the Chairman of the Executive Board of RUSNANO Management Company LLC [Anatoly Chubais](#), and the Chief Executive Officer of the Fund is [Andrey Svinarenko](#).

For more information about the Fund, visit fiop.site.