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SYNTHETIC DNA BIOSENSORS WITH MULTIVALENT APTAMERS FOR MULTIPLE VIRUSES DIAGNOSTICS

Tech ID: 32961 / UC Case 2023-034-0

PATENT STATUS

Country	Туре	Number	Dated	Case
Patent Cooperation Treaty	Published Application	WO/2024/191659	09/19/2024	2023-034

BRIEF DESCRIPTION

Viruses have caused substantial health problems in the world. In 2019, the ravage caused by SARS-CoV-2 highlights the global health danger of emergent pathogens again. Rapid diagnostics of viruses is essential for timely, frequently life-saving treatment. Rapid diagnostics of viruses is essential for timely, and frequently life-saving, treatment. However, most diagnostic testing methods are only capable of detecting single species of virus. In addition, viruses can mutate rapidly, a process which can render single-target diagnostics ineffective.

UC Berkeley researchers have developed synthetic DNA arrays as a universal platform to bind viruses with multivalent aptamers which is more tolerant to mutations and capable of detecting multiple species of viruses simultaneously.

SUGGESTED USES

» Diagnostic device for detecting multiple variants of viruses simultaneously

ADVANTAGES

- » scalable manufacture
- » cost efficiency
- » portability
- » reliability

CONTACT

Terri Sale terri.sale@berkeley.edu tel: 510-643-4219.



INVENTORS

>> Tikhomirov, Grigory A.

OTHER INFORMATION

KEYWORDS

Diagnostic, virus

CATEGORIZED AS

» Medical

» Diagnostics

» Disease: Infectious

Diseases

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University of California, Berkeley Office of Technology Licensing
2150 Shattuck Avenue, Suite 510, Berkeley,CA 94704

Tel: 510.643.7201 | Fax: 510.642.4566

ipira.berkeley.edu/ | otl-feedback@lists.berkeley.edu

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