

Electronic biosensor platform

A sensor comprising an electronic circuit electrically coupled to a type III-V semiconductor material, for example indium arsenide (InAs) and an antibody contacting the type III-V semiconductor material. The sensor produces measurable changes in the electrical properties of the semiconductor upon antibody-antigen binding events. Electrical properties measurable by the electronic device may include resistivity, capacitance, impedance, and inductance. A method of detecting an antigen using sensors of the invention. A method of detecting a reaction of an analyte to a stimulus using sensors of the invention. Sensor arrays comprising multiple sensors of the invention.

Duke

LICENSING & VENTURES



Duke File (IDF) #

T-003163



Inventor(s)

- Brown, April
- Angelo, Robert
- Lampert, William
- Wolter, Scott



College

Pratt School of Engineering

**For more information
please contact**

Koi, Bethany

919-681-7552

bethany.koi@duke.edu