

# LICENSING OPPORTUNITY: CHARGE DETECTOR AND PROCESS FOR SENSING A CHARGED ANALYTE

## DESCRIPTION

### Problem

It is time for precision biochemical measurements in a format that combines inexpensive passive sensors that can be customized for specific applications with reusable electronics.

### Invention

We developed a modular bioelectronics measurement platform that allows for easily interchangeable measurements, which can allow the diagnosis of multiple diseases.

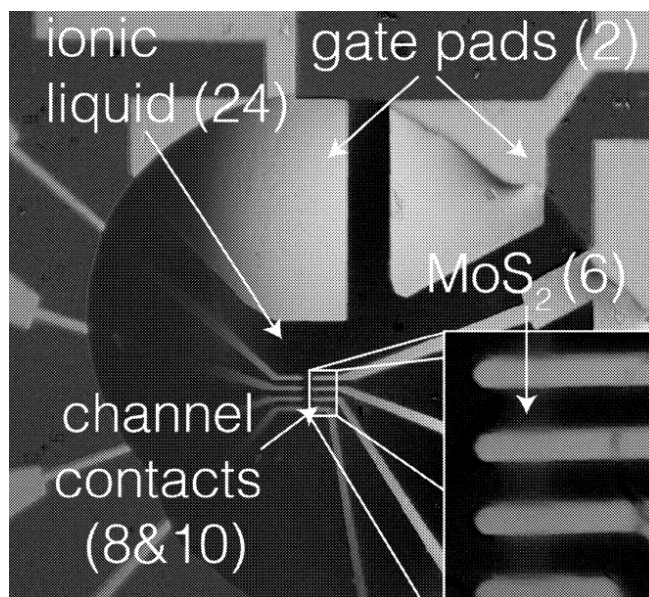
## BENEFITS

### Potential Commercial Applications

- Disease diagnostics
- Early warning systems for public health

### Competitive Advantage

- Our modular approach allows flexibility to rapidly reconfigure the sensors for new and emerging applications.
- Allows rapid measurements in a handheld form factor and provides a route for developing several inexpensive disposable sensors that can be read with a single reader.



A micrograph of a dual gate field effect transistor.

Contact: [licensing@nist.gov](mailto:licensing@nist.gov)

**NIST** TECHNOLOGY PARTNERSHIPS  
OFFICE

NIST Technology Partnerships Office  
National Institute of Standards and Technology  
100 Bureau Drive, Gaithersburg, MD 20899-2200