InnoSense LLC is a technology firm serving the aerospace, defense, energy, and healthcare markets. We develop cutting edge innovations in chemical and biological sensing, and nanomaterial technologies. Learn more about our latest innovations at www.innosense.us

InnoSense LLC is about 15 miles from Los Angeles International Airport. We have teaming arrangements with large and small companies to transition our technologies to commercially viable products.

Located in Southern California

For more information, please contact us at marketing@innosense.us

2531 West 237th Street, Suite 127
Torrance, CA 90505
Phone: (310) 530-2011
Fax: (310) 530-2099
www.innosense.us

NANO-MOS™
POINT-OF-CARE
SALIVA-BASED
DIAGNOSTICS
**POINT-OF-CARE SALIVA-BASED DIAGNOSTICS**

InnoSense LLC is developing Nano-Mos, a novel point-of-care saliva-based diagnostic device for early detection of multiorgan injury. Nano-Mos will detect five biomarkers indicative of multi-organ injury. The complete envisioned system includes collection of saliva in a filtration device. The collected saliva, without preparation, will be deposited into a disposable sensor chip. The disposable chip will be inserted into the USB-C multi-organ injury detector on the hand-held device for analysis. Results will be displayed in minutes.

**TECHNOLOGICAL BENEFITS**

- Detects multiple relevant biomarkers in a single assay for multiorgan injury detection.
- Antibody functionalized nanomaterials-based chemiresistive multiplex assay.
- Highly sensitive detection (fM levels) of target molecules in saliva.
- Nanowires are easily assembled into an array for multiple biomarker detection in a single assay.
- Requires only tens of microliters of reagents for low-cost production due to template-free electromechanical fabrication.
- Micron-sized electrode junctions.
- Scalable for mass production.

**FEATURES**

- Rapid analysis of multi-organ injury - results in minutes.
- High sensitivity of target molecules in saliva allows non-invasive diagnosis.
- Readout display for clear, easy-to-read results.
- Headheld, portable design for simple operation.
- Low power requirements.
- Robust, with long operational life.

**POTENTIAL APPLICATIONS**

- Rapid bedside or in-office diagnostics.
- Portable in-field diagnosis for critical injury assessment in war-zones.
- Robust and easy-to-use for emergencies, quarantine areas and hazardous environments.

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