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## Implantable Wireless Oxygen Biosensor

Tech ID: 24224 / UC Case 2014-927-0

### BRIEF DESCRIPTION

Successful transplantation of bioengineered tissues, cells, and devices require sufficient oxygenation. Researchers at the University of California, Irvine have developed a new biosensor and method to wirelessly assess perfusion to tissues, cells and devices in patients.

### SUGGESTED USES

This new biosensor may be incorporated into devices for transplantation to ensure that the microenvironment of the device is conducive to cell and tissue viability.

### PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	10,149,640	12/11/2018	2014-927

### TESTING

This biosensor has been implanted into rodent models validating that the biosensor and the method are sensitive to oxygenation within a subcutaneously implanted device.

### CONTACT

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### OTHER INFORMATION

### KEYWORDS

Oxygen, Perfusion, Oxygenation, Implant

### CATEGORIZED AS

- » **Medical**
  - » Devices
- » **Sensors & Instrumentation**
  - » Biosensors
- » **Engineering**
  - » Other

### RELATED CASES

2014-927-0

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