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.

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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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