

## **Cavitas Sensors into Human Cavities: Soft-Contact Lens and Mouthguard Sensors**

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**Abstract :** 'Cavitas sensors' attached to human body cavities such as a contact lens type and a mouthguard ('no implantable', 'no wearable') attracted attention as self-detachable devices for daily medicine. In this contribution, the soft contact lens glucose sensor for tear sugar monitoring will be introduced. And the mouthguard sensor with dental materials integrated with Bluetooth low energy (BLE) wireless module for real-time monitoring of saliva glucose would also be demonstrated. In the near future, those self-detachable cavitas sensors are expected to improve quality of life in view of the aging of society.

**Keywords :** cavitas sensor, biosensor, contact lens, mouthguard

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