

Diabetes sensor detects glucose in tears and saliva | MassDevice.com On Call

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Researchers develop a new blood-free, low-cost biosensor that detects blood glucose levels by sampling saliva, tears and urine.



MASSDEVICE ON CALL — Researchers have developed a new blood-glucose sensor that doesn't need blood.

The biosensor, developed at Purdue University, detects minute concentrations of glucose in saliva, tears and urine, and may be manufactured cheaply because it doesn't require many processing steps to produce, according to the researchers.

"It's an inherently non-invasive way to estimate glucose content in the body," study co-leader and Purdue doctoral student Jonathan Claussen said in prepared remarks. "Because it can detect glucose in the saliva and tears, it's a platform that might eventually help to eliminate or reduce the frequency of using pinpricks for diabetes testing. We are proving its functionality."

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