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Inventors

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Integrated device for surface-contact sampling extraction and electrochemical measurements AZTE Case # M09-090

Invention Description

With the ongoing discovery of various biomarkers indicative of numerous diseases, the maintenance of several conditions are contingent of daily monitoring of respective biomarkers. One of the most common examples, is the daily finger prick affiliated with the diabetic blood glucose reading. After prolonged testing, calluses develop at the lanced area making it difficult to take additional readings. This leaves a window of opportunity for high quality non-invasive daily testing methods.

Researchers at Arizona State University's Biodesign Institute have developed a disposable device capable of recognizing biomarkers in body fluids, such as tears, saliva and open wounds. The present prototype can detect glucose in tears at a therapeutic concentration and is capable or replacing present invasive blood glucose methods.



Potential Applications

Non-invasive glucose monitoring in diabetic patients

Contact

Status: Patent Pending

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Intellectual Property

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Benefits and Advantages

- Non-invasive
- Disposable
- Scalable production
- Affordable
- Minimal background interference