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www.elsevier.com/locate/bios

PII: S0956-5663(17)30750-9
DOI: <https://doi.org/10.1016/j.bios.2017.11.021>
Reference: BIOS10097

To appear in: *Biosensors and Bioelectronic*

Received date: 17 August 2017
Revised date: 2 November 2017
Accepted date: 4 November 2017

Cite this article as: Suvaradhan Kanchi, Myalowenkosi I Sabela, Phumlane Selby Mdluli, Inamuddin and Krishna Bisetty, Smartphone based bioanalytical and diagnosis applications: A review, *Biosensors and Bioelectronic*, <https://doi.org/10.1016/j.bios.2017.11.021>

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Smartphone based bioanalytical and diagnosis applications: A review

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Abstract

A smartphone is a facile, handy-analytical device that makes our lives comfortable and stress-free in terms of health care diagnostic assessments. Due to recent advancements in the technology and the introduction of user friendly operating systems and applications, the smartphones have replaced laptops and desktop computers. Taking this fact into account, researchers have designed sensing systems which are more compatible with smartphones. Consequently, these devices are attracting the attention of researchers from fields such as telemedicine, biotechnology, chemical sciences and environmental sciences. In this review, our focus is on recent advances on smartphone based sensing and diagnosis applications.

Keywords: Smartphones; Sensing; Bioanalytical; Diagnostics and Apps

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