



Journal of Sensors

Special Issue on
**Microfluidic Devices for Point-of-Care (POC)
Diagnostics**

CALL FOR PAPERS

POC diagnostics, also known as bedside or near-patient testing, is to generate a biochemical test result quickly so that appropriate treatment can be implemented, leading to an improved clinical or economic outcome. Suitable platforms with low cost and high accuracy remain a major technical hurdle in the path of biomedical microfluidic systems for point-of-care (POC) diagnostics. With the coming age of consumable electronics (smart phones, tablet, google glasses, etc.) and microfluidics, it is believed that the combination of these two provides a promising solution to such a challenge. One typical example would be the blood glucose meters, which are available in every drug store. However, although an extensive literature exists investigating the possibility of similar platforms for other diagnostics, there are few available products in the market. Future approaches to the POC diagnostics will require a 'killer' application that could take the advantages of both microfluidics and consumable electronics. We invite investigators to submit original research articles and reviews to this special issue.

Potential topics include but are not limited to the following:

- ▶ Recent developments in the area of POC diagnostics
- ▶ Microfluidic based diagnostics: current trends
- ▶ Applications of microfluidic devices in POC diagnostics, especially in the areas of microarrays, blood analysis, and emulsion based test
- ▶ Interfaces and modules to facilitate the adoption microfluidics with consumable electronics
- ▶ Remote diagnostics based on consumable electronics and microfluidics

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/js/mdpoc/>.

Lead Guest Editor

Linfeng Xu, Intuitive Biosciences,
Madison, USA
lxu@intuitivebio.com

Guest Editors

Hun Lee, SK Hynix, Seoul, Republic of
Korea
hun1.lee@sk.com

Kwang Oh, State University of New York
at Buffalo, Buffalo, USA
kwangoh@buffalo.edu

Ruiguo Yang, Northwestern University,
Evanston, USA
ruiguo.yang@northwestern.edu

Changjin Huang, Carnegie Mellon
University, Pittsburgh, USA
changjih@andrew.cmu.edu

Manuscript Due

Friday, 23 September 2016

First Round of Reviews

Friday, 16 December 2016

Publication Date

Friday, 10 February 2017