### Accepted Manuscript

Title: Automation of multi-analyte prostate cancer biomarker immunoassay panel from whole blood by minimum-instrumentation rotational flow control

Authors: Rohit Mishra, Julia Zapatero-Rodríguez, Shikha Sharma, Domhnall Kelly, Darren McAuley, Sarah Gilgunn, Richard O'Kennedy, Jens Ducrée



PII:	S0925-4005(18)30285-5
DOI:	https://doi.org/10.1016/j.snb.2018.02.015
Reference:	SNB 24110
To appear in:	Sensors and Actuators B
Received date:	15-8-2017
Revised date:	15-1-2018
Accepted date:	2-2-2018

Please cite this article as: Rohit Mishra, Julia Zapatero-Rodríguez, Shikha Sharma, Domhnall Kelly, Darren McAuley, Sarah Gilgunn, Richard O'Kennedy, Jens Ducrée, Automation of multi-analyte prostate cancer biomarker immunoassay panel from whole blood by minimum-instrumentation rotational flow control, Sensors and Actuators B: Chemical https://doi.org/10.1016/j.snb.2018.02.015

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## ACCEPTED MANUSCRIPT

## Automation of multi-analyte prostate cancer biomarker immunoassay panel from whole blood by minimum-instrumentation rotational flow control

Rohit Mishra<sup>+†#\*</sup>, Julia Zapatero-Rodríguez<sup>‡§#</sup>, Shikha Sharma<sup>§#</sup>, Domhnall Kelly<sup>‡§</sup>, Darren McAuley<sup>+</sup>, Sarah Gilgunn<sup>‡</sup>, Richard O'Kennedy<sup>‡§</sup> and Jens Ducrée<sup>+†§\*</sup>

+ FPC@DCU - Fraunhofer Project Centre for Embedded Bioanalytical Systems at Dublin City University, Ireland.

‡ School of Biotechnology, Dublin City University, Glasnevin, Dublin 9, Ireland.

§ Biomedical Diagnostics Institute (BDI), Dublin City University, Glasnevin, Dublin 9, Ireland.

+School of Physical Sciences, National Centre for Sensor Research, Dublin City University, Ireland.

# These authors contributed equally to this work

#### AUTHOR INFORMATION

#### **Corresponding Authors**

Rohit Mishra (<u>rohit.mishra@dcu.ie</u>) and Jens Ducrée (<u>jens.ducree@dcu.ie</u>)

#### **Graphical abstract**



Multi-analyte, multi-step LoaD depicting the spatial distribution of various sections, liquid chambers and valves

Download English Version:

# https://daneshyari.com/en/article/7140616

Download Persian Version:

https://daneshyari.com/article/7140616

Daneshyari.com