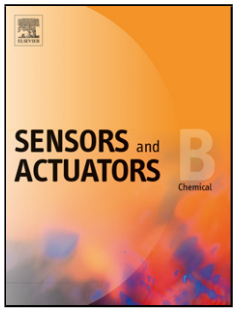

Title: Analysis of volatile organic compounds in exhaled breath for lung cancer diagnosis using a sensor system

Authors: Ji-Eun Chang, Dae-Sik Lee, Sang-Woo Ban, Jaeho Oh, Moon Youn Jung, Seung-Hwan Kim, SungJoon Park, Krishna Persaud, Sanghoon Jheon

PII: S0925-4005(17)31479-X
DOI: http://dx.doi.org/doi:10.1016/j.snb.2017.08.057
Reference: SNB 22924

To appear in: *Sensors and Actuators B*

Received date: 15-10-2016
Revised date: 3-7-2017
Accepted date: 7-8-2017

Please cite this article as: Ji-Eun Chang, Dae-Sik Lee, Sang-Woo Ban, Jaeho Oh, Moon Youn Jung, Seung-Hwan Kim, SungJoon Park, Krishna Persaud, Sanghoon Jheon, Analysis of volatile organic compounds in exhaled breath for lung cancer diagnosis using a sensor system, Sensors and Actuators B: Chemicalhttp://dx.doi.org/10.1016/j.snb.2017.08.057

Analysis of volatile organic compounds in exhaled breath for lung cancer diagnosis using a sensor system

Ji-Eun Chang[1†], Dae-Sik Lee[3†], Sang-Woo Ban[4], Jaeho Oh[4], Moon Youn Jung[3], Seung-Hwan Kim[3], SungJoon Park[1§], Krishna Persaud[5], and Sanghoon Jheon[1,2*]

[1] Department of Thoracic and Cardiovascular Surgery, Seoul National University Bundang Hospital, Seongnam-si, Gyeonggi-do, Republic of Korea

[2] Department of Thoracic and Cardiovascular Surgery, Seoul National University College of Medicine, Seoul, Republic of Korea

[3] Bio-Medical IT Convergence Research Division, Electronics and Telecommunications Research Institute, Daejeon, Republic of Korea

[4] Department of Information and Communication Engineering, Dongguk University, Gyeongju, Gyeongbuk, Republic of Korea

[5] School of Chemical Engineering and Analytical Science, The University of Manchester, Oxford Road, Manchester, United Kingdom

[†] These two authors contributed equally to this work.

[§] Current address: Department of Thoracic and Cardiovascular Surgery, Sanggye Paik Hospital, Inje University, Republic of Korea