## Accepted Manuscript

Title: Fine discrimination of volatile compounds by graphene-immobilized odorant-binding proteins

Authors: Caroline Kotlowski, Melanie Larisika, Patrick M. Guerin, Christoph Kleber, Thomas Kröber, Rosa Mastrogiacomo, Christoph Nowak, Paolo Pelosi, Stefan Schütz, Andreas Schwaighofer, Wolfgang Knoll

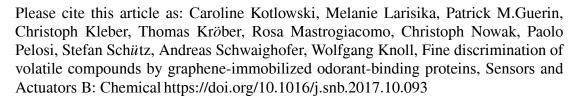
PII: S0925-4005(17)31995-0

DOI: https://doi.org/10.1016/j.snb.2017.10.093

Reference: SNB 23397

To appear in: Sensors and Actuators B

Received date: 18-5-2017 Revised date: 7-10-2017 Accepted date: 16-10-2017



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

# Fine discrimination of volatile compounds by graphene-immobilized odorant-binding proteins

Caroline Kotlowski<sup>a,b,‡</sup>, Melanie Larisika<sup>a,b,‡</sup>, Patrick M. Guerin<sup>c</sup>, Christoph Kleber<sup>a</sup>, Thomas Kröber<sup>c</sup>, Rosa Mastrogiacomo<sup>d</sup>, Christoph Nowak<sup>a,b</sup>, Paolo Pelosi<sup>d</sup>, Stefan Schütz<sup>e</sup>, Andreas Schwaighofer<sup>f</sup>, Wolfgang Knoll<sup>a,b,\*</sup>

- a) Center for Electrochemical Surface Technology, 2700 Wiener Neustadt, Austria
- b) AIT Austrian Institute of Technology, 1190 Vienna, Austria
- c) Institute of Biology, University of Neuchâtel, 2000 Neuchâtel, Switzerland
- d) Dept. of Agriculture, Food & Environment, University of Pisa, 56124 Pisa, Italy
- e) Buesgen-Institute, Dept. of Forest Zoology and Forest Conservation, University of Göttingen, 37077 Göttingen, Germany
- <sup>f)</sup> Institute of Chemical Technologies and Analytics, Vienna University of Technology, Getreidemarkt 9/164-UPA, 1060 Vienna, Austria.

<sup>‡</sup> These authors contributed equally to this work

Corresponding author:

Tel.: +4350550-4002;

Fax: +4350550-4000

E-mail address: wolfgang.knoll@ait.ac.at

#### Download English Version:

# https://daneshyari.com/en/article/7141630

Download Persian Version:

https://daneshyari.com/article/7141630

<u>Daneshyari.com</u>