

Accepted Manuscript

Microfluidic devices for the study of actin cytoskeleton in constricted environments: Evidence for podosome formation in endothelial cells exposed to a confined environment

Pirjo Spuul, Pei-Yin Chi, Clotilde Billottet, Chia-Fu Chou, Elisabeth Génot

PII: S1046-2023(15)30071-2

DOI: <http://dx.doi.org/10.1016/j.ymeth.2015.09.001>

Reference: YMETH 3782

To appear in: *Methods*

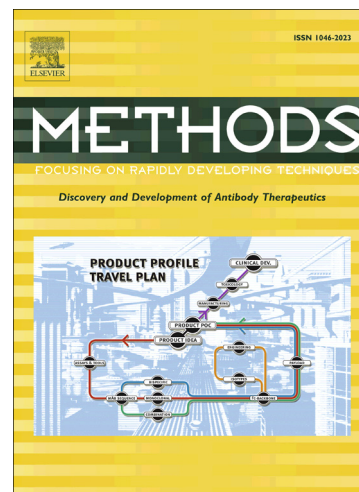
Received Date: 28 April 2015

Revised Date: 14 August 2015

Accepted Date: 1 September 2015

Please cite this article as: P. Spuul, P-Y. Chi, C. Billottet, C-F. Chou, E. Génot, Microfluidic devices for the study of actin cytoskeleton in constricted environments: Evidence for podosome formation in endothelial cells exposed to a confined environment, *Methods* (2015), doi: <http://dx.doi.org/10.1016/j.ymeth.2015.09.001>

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.



Microfluidic devices for the study of actin cytoskeleton in constricted environments: Evidence for podosome formation in endothelial cells exposed to a confined environment

Pirjo Spuul^{a,b,#}, Pei-Yin Chi^{c,d,e,#}, Clotilde Billottet^{a,1}, Chia-Fu Chou^{c,d,f,*}, Elisabeth Génot^{a,b,*}

^aUniversité de Bordeaux; Bordeaux F-33000, France; ^bINSERM U1045; Bordeaux, France F-33000; ^cNano Science and Technology Program, Taiwan International Graduate Program, Academia Sinica, Taipei 11529, Taiwan; ^dInstitute of Physics, Academia Sinica, Taipei 11529, Taiwan; ^eDepartment of Engineering and System Science, National Tsing Hua University, Hsinchu 30013, Taiwan; ^fGenomics Research Center and Research Center for Applied Sciences, Academia Sinica, Taipei 11529, Taiwan.

Corresponding authors: elisabeth.genot@inserm.fr; cfchou@phys.sinica.edu.tw

#, * Equal contributors

Footnotes

¹ Present address: INSERM U1029, Talence, France F-33405; Université de Bordeaux, Bordeaux, France F-33405.

² Abbreviations. PDMS – polydimethylsiloxane; RIE – reactive-ion etching; ICP – inductively coupled plasma; EGFP – enhanced green fluorescence protein; FN – fibronectin; TGF β – transforming growth factor beta; IRM – interference reflection microscopy; DIC – differential interference contrast.

Download English Version:

<https://daneshyari.com/en/article/8340417>

Download Persian Version:

<https://daneshyari.com/article/8340417>

[Daneshyari.com](https://daneshyari.com)