Innovative TEM-coupled approaches to study foraminiferal cells

Hidetaka Nomaki, Charlotte LeKieffre, Stéphane Escrig, Anders Meibom, Shinsuke Yagyu, Elizabeth A. Richardson, Takuya Matsuzaki, Masafumi Murayama, Emmanuelle Geslin, Joan M. Bernhard

PII: S0377-8398(17)30051-8
DOI: doi:10.1016/j.marmicro.2017.10.002
Reference: MARMIC 1665

To appear in: *Marine Micropaleontology*

Received date: 26 April 2017
Revised date: 27 September 2017
Accepted date: 15 October 2017

Please cite this article as: Hidetaka Nomaki, Charlotte LeKieffre, Stéphane Escrig, Anders Meibom, Shinsuke Yagyu, Elizabeth A. Richardson, Takuya Matsuzaki, Masafumi Murayama, Emmanuelle Geslin, Joan M. Bernhard , Innovative TEM-coupled approaches to study foraminiferal cells. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Marmic(2017), doi:10.1016/j.marmicro.2017.10.002

Innovative TEM-coupled approaches to study foraminiferal cells

Hidetaka Nomaki[a], Charlotte LeKieffre[b], Stéphane Escrig[b], Anders Meibom[b,c], Shinsuke Yagyu[d], Elizabeth A. Richardson[e], Takuya Matsuzaki[d], Masafumi Murayama[d], Emmanuelle Geslin[f], Joan M. Bernhard[g]

[a] Department of Biogeochemistry, Japan Agency for Marine-Earth Science and Technology, 2-15 Natsushima-cho, Yokosuka, Kanagawa, 237-0061, Japan

[b] Laboratory for Biological Geochemistry, School of Architecture, Civil and Environmental Engineering (ENAC), Ecole Polytechnique Fédérale de Lausanne (EPFL), 1015 Lausanne, Switzerland

[c] Center for Advanced Surface Analysis, Institute of Earth Sciences, University of Lausanne, Switzerland

[d] Center for Advanced Marine Core Research, Kochi University, B200, Monobe, Nankoku-city, Kochi, 783-8502, Japan

[e] Georgia Electron Microscopy, University of Georgia, Athens, GA 30602, USA

[f] LPG-BIAF, University of Angers, UMR CNRS 6112, 49095 Angers Cedex, France

[g] Department of Geology and Geophysics, Woods Hole Oceanographic Institution, Woods Hole, MA 02543, USA

* Corresponding author: nomakih@jamstec.go.jp

Key words: Ultrastructure, NanoSIMS, micro-X-ray CT, correlative microscopy, isotope mapping, microhabitat