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Morphological and functional characterization of hemocytes from two deep-sea vesicomyid clams *Phreagena okutanii* and *Abyssogena phaseoliformis* 

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## ACCEPTED MANUSCRIPT

- Title: Morphological and functional characterization of hemocytes from two deep-sea 1 vesicomyid clams Phreagena okutanii and Abyssogena phaseoliformis 2 **Authors:** Akihiro Tame<sup>1, 2, 3</sup>, Genki Ozawa<sup>2, 3</sup>, Tadashi Maruyama<sup>2, 3</sup> and Takao Yoshida<sup>2, 3</sup>\* 3 **Affiliations:** 4 <sup>1</sup> Department of Technical Services, Marine Works Japan Ltd. Oppama Higashi-cho, 5 Yokosuka-shi, Kanagawa 237-0063, Japan. 6 <sup>2</sup> School of Marine Biosciences, Kitasato University, Minami-ku, Sagamihara, Kanagawa 7 252-0373, Japan. 8 <sup>3</sup> Japan Agency for Marine-Earth Science and Technology, Natsushima-cho, Yokosuka-shi, 9 Kanagawa 237-0061, Japan. 10 \* Corresponding author: Takao Yoshida 11 Address: Department of Marine Biodiversity Research, Japan Agency for Marine-Earth Science 12 and Technology, 2-15 Natsushima-cho, Yokosuka-shi, Kanagawa 237-0061, Japan. 13
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17 **Abbreviations:** ERC: erythrocyte; BG: basophilic granulocyte; EG: eosinophilic granulocyte

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