

Author: Keyword:

Search

[ADVANCED](#)[TOP](#) > [Available Issues](#) > [Table of Contents](#) > [Abstract](#)

ONLINE ISSN : 1880-313X

PRINT ISSN : 0388-6107

Biomedical Research

Vol. 25 (2004) , No. 6 December pp.249-254

[\[PDF \(119K\)\]](#) [\[References\]](#)**Stimulation of phagocytosis in mouse peritoneal macrophages by orexin-B and orexin-A**Mitsuyuki ICHINOSE¹⁾ and Yasuko WATANABE¹⁾

1) Faculty of Engineering, Iwate University

(Received October 12, 2004)

(Accepted November 9, 2004)

ABSTRACT

To define the effects of feeding and sleep regulating peptides, orexins, in immunocompetent cells, the effects of orexin-A and orexin-B on phagocytosis in mouse peritoneal macrophages were examined. Orexin-B induced an enhancement of phagocytosis in a dose-dependent manner. Orexin-A is less effective than orexin-B. Even in Ca²⁺-free solutions, phagocytosis was enhanced by orexin-B. The potassium channel blocker quinine inhibited the enhanced phagocytosis by orexin-B; 4-aminopyridine and tetraethylammonium suppressed phagocytosis less effectively. These results suggest that orexins can enhance the phagocytosis of macrophages mediated by potassium channels.

[\[PDF \(119K\)\]](#) [\[References\]](#)Download Meta of Article [\[Help\]](#)[RIS](#)[BibTeX](#)

To cite this article:

Mitsuyuki ICHINOSE and Yasuko WATANABE; "Stimulation of phagocytosis in mouse peritoneal macrophages by orexin-B and orexin-A", *Biomedical Research*, Vol. **25**, pp.249-254 (2004) .



[Japan Science and Technology Information Aggregator, Electronic](#)

