Bio

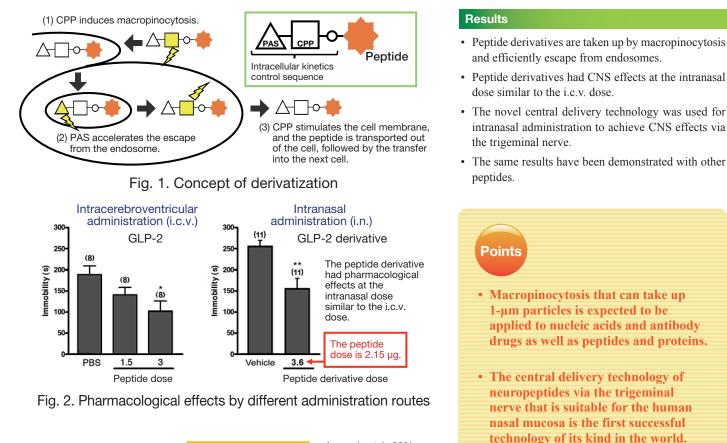
Development of central delivery technology of peptides by intranasal administration based on new concept

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Purpose of Research

Most of the intranasal formulations for improved CNS delivery have not been put to practical use. This is primarily because the anatomical features of the human nasal mucosa have not been taken into consideration. The nasal mucosa consists of the olfactory epithelium and respiratory epithelium, each of which accounts for approximately 50% in rodents. In humans, on the other hand, the olfactory epithelium accounts for 2% and the respiratory epithelium for 98%. We created neuropeptides containing various functional sequences, seeking to develop the central delivery technology via the trigeminal nerve in the respiratory epithelium.

Summary of Research



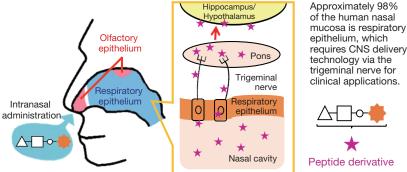


Fig. 3. Delivery route of peptide derivative to the CNS

TOKYO UNIVERSITY OF SCIENCE University Research Administration Center

Patent:

■ Applicants:

Corporation

C. Yamashita et al., US2017/0253643

C. Yamashita et al., EP 3 190 129, 2017

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