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Application of Gastrointestinal Peptides in Medicine

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Message from the Guest Editors

Conceptually, a wide beneficial effect, both peripherally and centrally, might have been essential for the harmony and function of the gut–brain axes. From the original viewpoint of gut peptides' significance and brain relation, these could be favorable behavioral findings (interaction with main systems; anxiolytic, anticonvulsive and antidepressant effects; counteracted catalepsy). Further applications are possible in muscle healing and function recovery, both peripherally and centrally mediated muscles disabilities, heart failure including arrhythmias and thrombosis, and smooth muscle function recovery. Finally, encephalopathies, acting simultaneously in both the peripheral and central nervous system, and large lesions in the brain and peripheral organs, can be targets for gut peptide therapy. Severe blood pressure disturbances (i.e., venous (intracranial hypertension, portal and caval hypertension) and arterial (i.e., aortal hypotension or hypertension)) can be targeted by gut peptide therapy. The existence of a multimodal axis in healing as a function of the brain–gut axis and the gut–brain axis as a whole should be revealed by gut peptide therapy.





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