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Botulinum Neurotoxin as a Drug Delivery System

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Message from the Guest Editor

Dear Colleagues,

Due to its extraordinary human toxicity after exposure to pico- or nano-gram of the toxin, the high affinity and accessibility of botulinum neurotoxin (BoNT) to the nervous system makes it an ideal drug delivery system, provided its toxicity can be nullified by amino acid replacements in the light chain and it is used in a microgram order. A successful example of this conceptis the treatment of animal botulism using a cargo polypeptide of micro-antibodies toward the toxic intracellular light-chain endopeptidase. Recent endeavors toward overcoming neurodegenerative diseases should point toward the elimination of pathogenic proteins such as tau and beta-amyloid using BoNTs.

This Special Issue sheds light on the latest advances in the clinical application of BoNT drug delivery system.

Prof. Dr. Ryuji Kaji Guest Editor













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Message from the Editor-in-Chief

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