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研究分野

ライフサイエンス / 神経科学・器官生理学

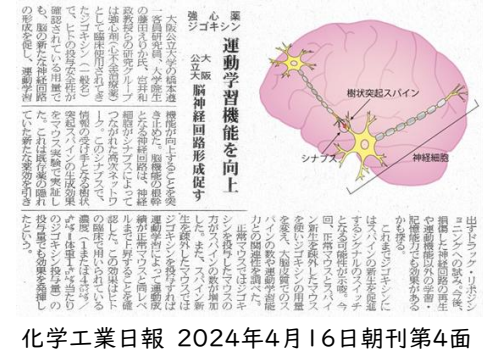
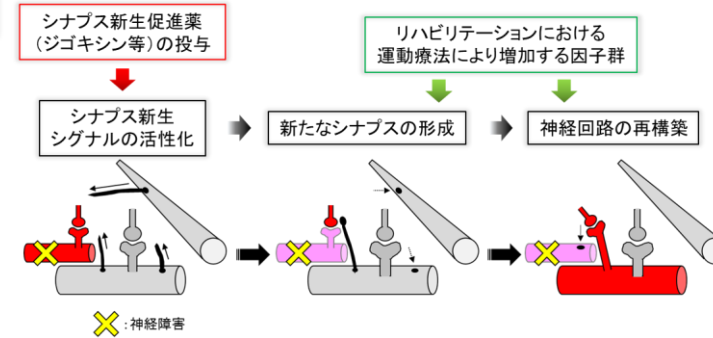
/ シナプス可塑性と学習行動, 内臓感覚伝達機構

1. シナプス新生促進による神経機能向上

・強心剤ジゴキシンがシナプス新生を促進し、
運動学習を向上させることを実証



認知機能回復や運動機能回復へ応用

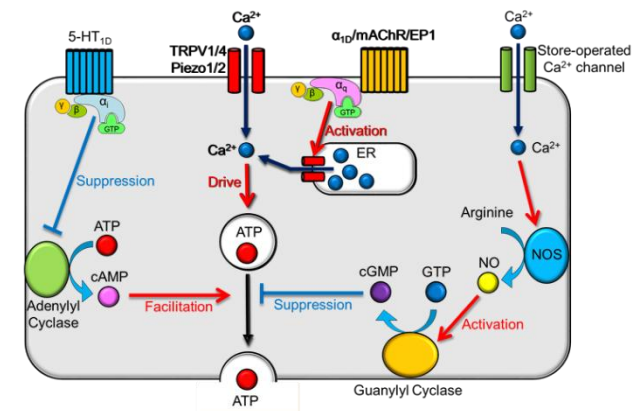
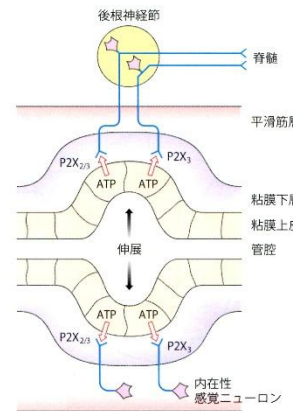


2. 尿路系・消化器系の内臓知覚過敏の緩和

・尿意や便意などの内臓感覚の起点となる
粘膜からのATP分泌調節機構を解明



薬剤や運動負荷による内臓知覚過敏症状
の緩和の可能性を検証





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Research Fields

Life Sciences / Neuroscience and Organ Physiology /
Synaptic Plasticity and Learning Behavior,
Visceral Sensory Transmission Mechanisms

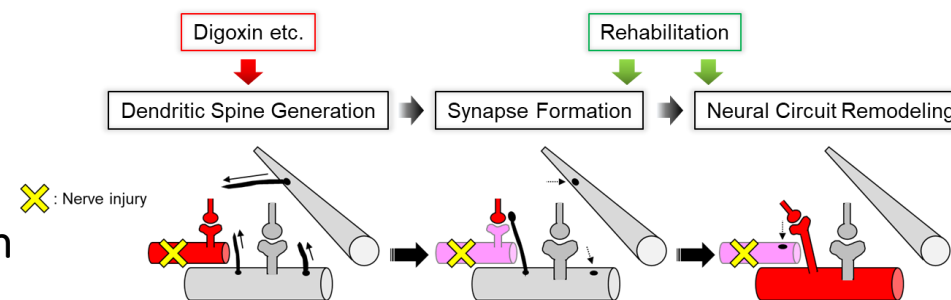
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1. Improvement of Neural Function by Promoting Synaptogenesis

- Demonstrated that the cardiac glycoside digoxin promotes synaptogenesis and enhances motor learning



Application to the recovery of cognitive and motor function



2. Alleviation of Visceral Hypersensitivity in the Urinary/Gastrointestinal Tracts

- Elucidated the regulatory mechanism of ATP secretion from the mucosa, which is the origin of visceral sensations



Investigated the potential for ameliorating visceral hypersensitivity symptoms by drugs or exercise

