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Light microscopic analysis of synaptic input to neurons in the rat major pelvic ganglion [keast-003]

In 1 collection

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Protocol status: Working
We use this protocol and it's working

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ABSTRACT

This collection describes the procedures required to visualise and characterize synaptic boutons associated with functionally classified pelvic ganglion autonomic neurons of adult male and female Sprague-Dawley rats. This collection includes protocols for:

STAGE 1: Surgery to micro-inject fluorescent retrograde tracer dyes into one or more sites within the lower urinary tract

STAGE 2: Intracardiac perfusion with fixative to preserve neural tissues of interest

STAGE 3: Immunohistochemical labeling of thick cryosections of pelvic ganglia

STAGE 4: Confocal microscopy and image analysis of synaptic boutons associated with ganglion neurons.

Keywords:

Immunohistochemistry,
immunofluorescence,
retrograde tracing, tract
tracing, synapse

Protocol

NAME

Use of tracer dyes to label neural projections to lower urinary tract organs

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Protocol

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Intracardiac perfusion with fixative for anatomical studies

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Immunohistochemical labeling of thick cryosections from pelvic ganglia

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Protocol

NAME

Confocal microscopy and characterization of synaptic boutons associated with ganglion neurons

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