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 We use this protocol and it's working

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🌐 Immediate Early Gene (IEG) mapping of spinal cord neurons activated by cystometry-induced micturition in rats [keast-002]

Janet R Keast¹, Peregrine B Osborne¹, Nicole Wiedmann¹

¹University of Melbourne

SPARC

Tech. support email: info@neuinfo.org

Janet R Keast
 University of Melbourne

ABSTRACT

This collection describes the procedures required to visualize and characterize lumbosacral spinal neurons that are activated by cystometry of awake adult male and female Sprague-Dawley rats. This collection includes protocols for:

STAGE 1: Surgery to cannulate the bladder, followed by recovery then cystometry

STAGE 2: Intracardiac perfusion with fixative to preserve the spinal cord tissue

STAGE 3: Immunohistochemical labelling of spinal cord sections to visualise immediate early gene expression in specific spinal regions and neuronal populations

STAGE 4: Microscopy and image analysis to assess patterns of immediate early gene expression in different spinal cord regions

Keywords: physiology,
autonomic, activity-mapping,
neuroanatomy,
immunohistochemistry, image
analysis

Protocol

NAME

Cystometry in awake rats

VERSION 1

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Janet R KeastUniversity of Melbourne

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Protocol

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Intracardiac perfusion with fixative for anatomical studies

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Immunohistochemical labelling of spinal cord neurons involved in bladder activity

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Image analysis of immediate early gene expression in spinal cord sections

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