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

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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

Collection Citation: Janet R Keast, Peregrine B Osborne, Nicole Wiedmann 2020. Immediate Early Gene (IEG) mapping of spinal cord neurons activated by cystometry-induced micturition in rats [keast-002]. protocols.io https://dx.doi.org/10.17504/protocols.io.bakxicxn

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