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Laser capture microdissection (LCM) and RNA isolation

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Abstract

Tissue samples for RNA analysis were obtained from brain with Laser Capture Microdissection System \(Arcturus).

Procedure

Tissue samples from 12 μm-thick frozen sections for RNA analysis were obtained from each hypothalamic nucleus or 50 captured GFP-positive or -negative cells onto a single CapSure HS LCM Cap \(Arcturus Engineering, Mountain View, CA) using the following parameters: spot size = 7.5 μm; power = 50–80 mW; and pulse duration = 50–1,000 ms. Total RNAs were isolated by PicoPure RNA Isolation Kit \(Arcturs Engineering), and treated with DNase I \(Invitrogen).