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RNA Extraction and RT-qPCR

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This protocol is used to extract RNA from mouse brain tissue and quantify with RT-qPCR.

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1 Homogenize hemibrain in 3mL 1X PEPI buffer using a dounce homogenizer. 2m
1X PEPI Buffer: 5mM EDTA + 1X protease inhibitor in 1X phosphate buffered saline (PBS)

2 Take 3% of homogenate and add 1mL TRIzol Reagent and follow their user guide. 45m

3 Synthesize cDNA with 5X All-In-One RT Master Mix Kit then perform qPCR. 2h
qPCR settings: 95^{o}C for 5 minutes, 40x (95^{o}C for 15 seconds then 60^{o}C for 60 seconds), melting curve