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Hearing out Ultrasound Neuromodulation.

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Neuron, 01 Jun 2018, 98(5):875-877

<https://doi.org/10.1016/j.neuron.2018.05.031> PMID: 29879389

i This is a comment on "Ultrasound Produces Extensive Brain Activation via a Cochlear Pathway." Neuron. 2018 Jun 6;98(5):1020-1030.e4.

i This is a comment on "Ultrasonic Neuromodulation Causes Widespread Cortical Activation via an Indirect Auditory Mechanism." Neuron. 2018 Jun 6;98(5):1031-1041.e5.

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Abstract

Many neuroscientists are excited regarding the potential of ultrasound to yield spatiotemporally precise and noninvasive modulation of arbitrary brain regions. Here, Guo et al. (2018) and Sato et al. (2018) show that applying ultrasound to rodent brains activates acoustic responses more prominently than eliciting neuromodulation directly suggesting potential confounds of ultrasound neuromodulation experiments.

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