Resource Summary Report

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SPARC - Gastrointestinal myoelectric recordings from the behaving ferret

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Type: Protocol

Proper Citation

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Protocol Information

URL: https://dx.doi.org/10.17504/protocols.io.6a8hahw

Authors: Charles Horn, Derek M. Miller, Stephanie Fulton, Bill J. Yates, Lee E. Fisher, Ameya C. Nanivadekar

Group: SPARC

Summary: This protocol provides the steps for recording the gastrointestinal myoelectric responses and stimulation of the abdominal vagus nerve from the behaving ferret. These tests occur after an animal is surgically implanted with gastrointestinal and vagus nerve electrodes (see the protocol "SPARC - Chronic implantation of gastrointestinal and vagus nerve electrodes in the ferret" for implantation methods).Funding: This protocol was developed with funding from the NIH Common Fund's Stimulating Peripheral Activity to Relieve Conditions (SPARC) program (Award U18TR002205). To learn more about the SPARC program, visit https://sparc.science.

Associated Publications: Nanivadekar AC, Miller DM, Fulton S, Wong L, Ogren J, Chitnis G, McLaughlin B, Zhai S, Fisher LE, Yates BJ, Horn CC (2019) Machine learning prediction of emesis and gastrointestinal state in ferrets. PLoS ONE 14(10): e0223279. doi: 10.1371/journal.pone.0223279

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