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Colonic Migrating Motor Complexes

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Jessica Griffiths¹, Bryan Yoo¹, Sarkis Mazmanian¹

¹California Institute of Technology



Jessica Griffiths

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Protocol status: Working

We use this protocol and it's working

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Abstract

Protocol used in "Peripheral Neuronal Activation Shapes the Microbiome and Alters Gut Physiology"



Sample Preparation

1h 5m

- 1 Intact colons were dissected from cervically-dislocated mice. 10m
- 2 Colons were flushed and placed in pre-oxygenated (95% O₂, 5% CO₂) Krebs-Henseleit solution at RT 10m
- 3 Proximal and distal ends were cannulated to 2 mm diameter tubes and secured in the center of an organ bath with continuously oxygenated Krebs-Henseleit solution at 37 °C. 10m
- 4 Syringe pumps were connected to the inlet and outlet tubes to maintain a flow of solution at a rate of 500 µL/min through the colon. 5m
- 5 The system was allowed to equilibrate for 30 minutes before recording. 30m

Data Aquisition

1h

- 6 Baseline recordings were taken for 30 minutes, then the Krebs solution in the organ bath was briefly removed, mixed with C21 to a final concentration of 2 µM, and replaced in the organ bath. Recordings were taken for another 30 minutes. 1h