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GCaMP6F Fluorescence in Ex Vivo Intestinal Preparation

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Protocol for GCaMP6F imaging in ex vivo intestinal tissue used in Yoo et al 2021

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1 Small intestinal tissue was quickly harvested from ChAT-Cre mice, flushed and placed in oxygenated (95% O2, 5% CO2), ice cold Krebs-Henseleit solution for 1 hour followed by 15 min at room temperature.

2 A segment was cut along the mesenteric attachment, and pinned flat (mucosa facing down) on a Sylgard-lined recording chamber (Warner Instruments, PH1) in oxygenated Krebs-Henseleit solution.

3 C21 was added at 10nM and GCaMP6F fluorescence was detected on an upright microscope (Zeiss, Oberkochen, Germany-Examiner D1).

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