

Resource Summary Report

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Tache_Mulugeta_OT2OD024899_Colon tissue electrical stimulation and colonic motility measurements

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Protocol Information

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Authors: Muriel Larauche, Yushan Wang, Po-Min Wang, James Dunn, Wentai Liu, Mulugeta Million

Group: SPARC

Summary: This protocol describes a process for the measurement of acute electrical stimulation-induced effects on colonic motility in anesthetized young adult Yucatan minipigs. Signals recorded from manometry probes inserted into the proximal, transverse and distal colonic regions were used to measure the effect of stimulation by serosally placed electrodes opposed to the colonic tissue at multiple sites in an acute anesthetized preparation. The effect of stimulation was quantified as motility index assessments before, during and after stimulation, and the data was used to create a functional map of colonic motor response to localized colon stimulation.

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