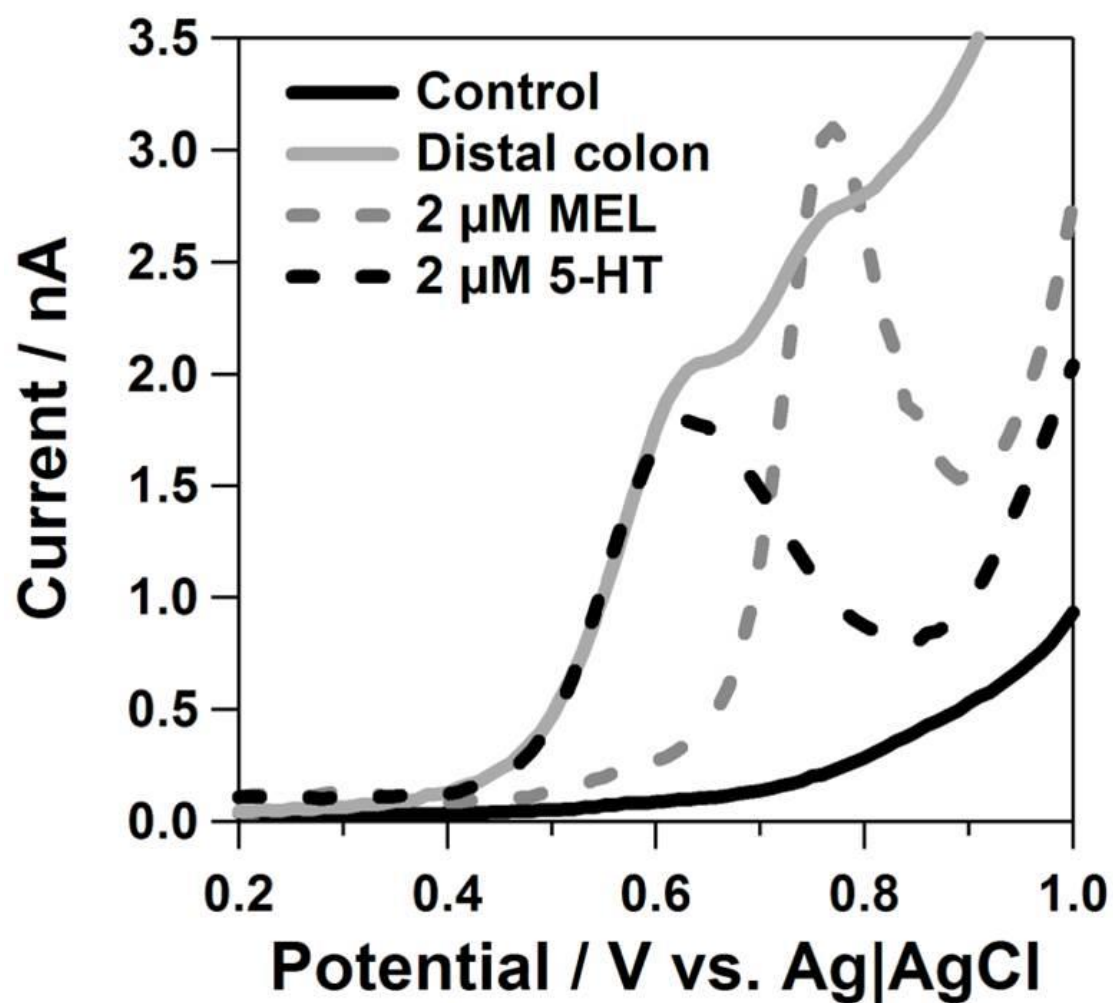


THE TNF- α ANTAGONIST ETANERCEPT REVERSES AGE-RELATED DECREASES IN COLONIC SERT EXPRESSION AND FAECAL OUTPUT IN MICE.

Bhavik Anil Patel¹, Sara Fidalgo¹, Chunfang Wang², Leena Parmar¹, Kasonde Mandona¹, Annabelle Panossian¹, Melanie S. Flint¹, Richard N. Ranson³, M. Jill Saffrey² and Mark S. Yeoman¹

Supplementary Figure 1: Typical voltammogram obtained using differential pulse voltammetry. With the electrode held 0.1 mm from the tissue two clear oxidation peaks can be seen at + 0.6V and + 0.75V (grey solid line), which correspond to the peaks for 5-HT (black dotted line) and melatonin (grey dotted line), respectively.



Supplementary Figure 2: Effects of Etanercept on myenteric 5-HT or the 5-HIAA:5-HT ratio in both 3 or 24 month old distal colon. In 24-month colon, etanercept had no effect on myenteric 5-HT levels (A) but reduced myenteric 5-HIAA:5-HT ratio (B). Etanercept failed to alter myenteric levels of 5-HT (C) or the 5-HIAA:5-HT ratio (D) in 3-month distal colon. * $p < 0.05$, $n=7$ for the 24 month groups and $n=8$ for the 3 month groups. Data are plotted as the mean \pm SD.

