The TNF- antagonist etanercept reverses age-related decreases in colonic SERT expression and faecal output in mice

Journal Item

How to cite:

Patel, Bhavik Anil; Fidalgo, Sara; Wang, Chunfang; Parmar, Leema; Mandona, Kasonde; Panossian, Annabelle; Flint, Melanie S.; Ranson, Richard N.; Saffrey, M. Jill and Yeoman, Mark S. (2017). The TNF- antagonist etanercept reverses age-related decreases in colonic SERT expression and faecal output in mice. Scientific reports, 7, article no. 42754.

For guidance on citations see FAQs.

© 2017 The Authors

http://creativecommons.org/licenses/by/4.0/

Version: Supplementary Material

Link(s) to article on publisher’s website:
http://dx.doi.org/doi:10.1038/srep42754

Copyright and Moral Rights for the articles on this site are retained by the individual authors and/or other copyright owners. For more information on Open Research Online’s data policy on reuse of materials please consult the policies page.
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 ± SD.