

Figure S1. Isothermal titration calorimetry (ITC) of boscalid (500 μM) into TiO_2 (E171) (37.6 μM) in water. Thermogram showing the experimentally derived curve with raw heat rate $\mu\text{J/s}$ versus time (s) (*top*); and the calculated binding isotherm with change in enthalpy kJ/mol versus boscalid- TiO_2 molar ratio (*bottom*)

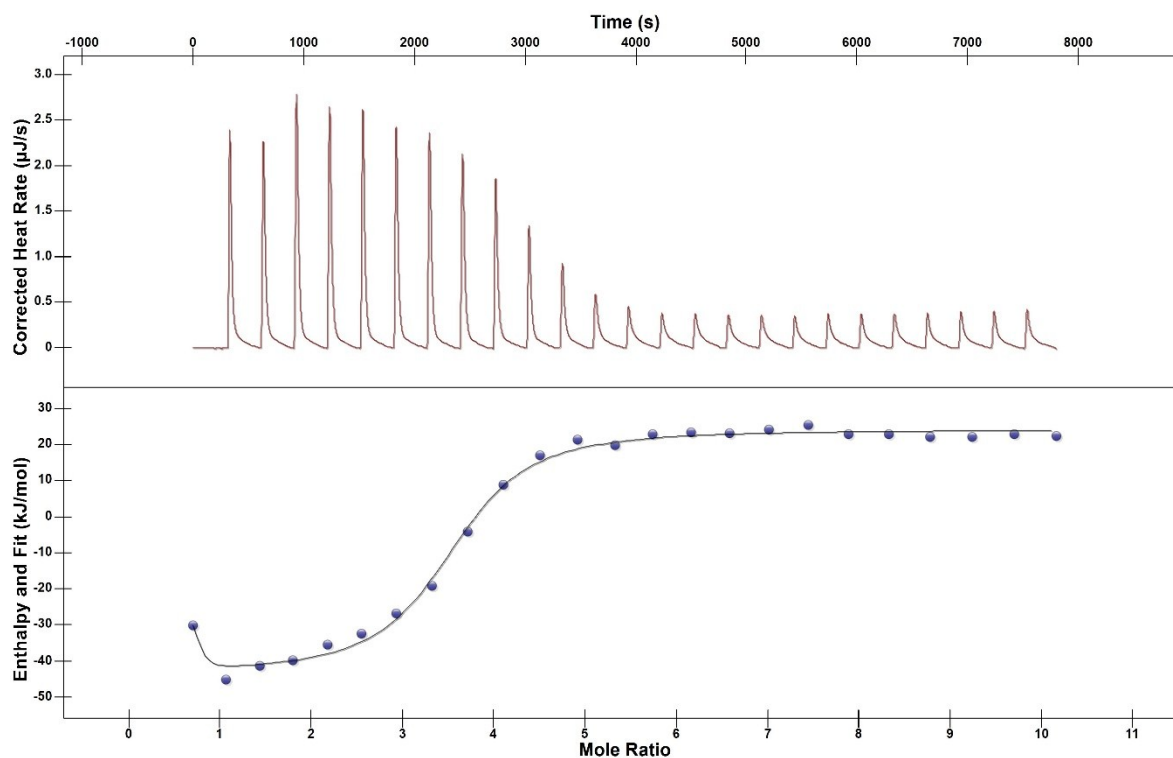


Figure S2. Isothermal titration calorimetry (ITC) of boscalid (500 μM) into SiO_2 (E551) (16.6 μM) in water. Thermogram showing the experimentally derived curve with raw heat rate $\mu\text{J/s}$ versus time (s) (*top*); and the calculated binding isotherm with change in enthalpy kJ/mol versus boscalid- SiO_2 molar ratio (*bottom*)

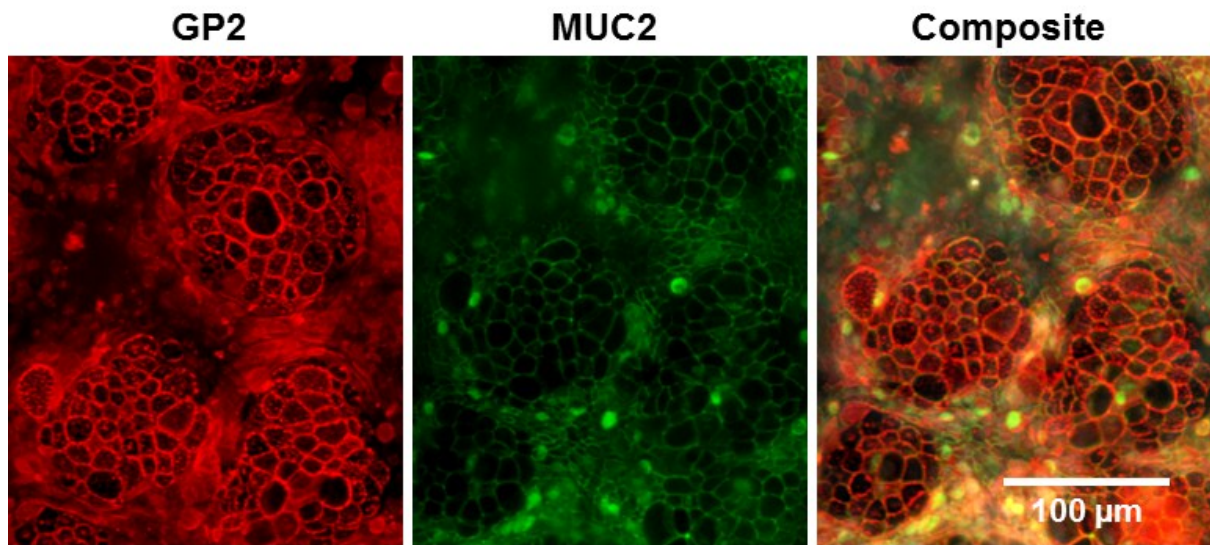


Figure S3. Triculture small intestinal model morphology by confocal microscopy. Mature tricultures grown on transwell inserts were fixed, permeabilized, immunostained for mucin (MUC2) and the M-cell marker, glycoprotein 2 (GP2). Adapted from DeLoid et al., *Part. Fibre Toxicol.*, 2017, 14, 40.