Ehud Zigmond, March 2011 Jung laboratory

Ex vivo Culture of Colonic Explants

1. Excise the colon and collect 2-3 cm of tissue (depending on its thickness) from the distal part.
2. Immediately weigh the tissue. To have a good cytokine signal, the weight of the tissue should be no less than 50 mg.
3. Wash the tissue thoroughly by passing it through several wells (at least 3) of a 12-well plate containing RPMI medium with 100ug/ml of streptomycin and 100U/ml penicillin. If possible, perform the washing steps on ice.
4. After washing, culture the tissue in a new 24 well-plate for 24 hours in 500 uL of complete RPMI (10%FCS, P/S, L-Glu).
5. Collect the supernatant in a 1.5 ml tube, centrifuge to eliminate debris and keep the supernatant.