**General procedure:**

For the 2,4,6-trinitrobenzene sulfonic acid (TNBS) mouse model of acute or chronic colitis, male or female C57/BL6J or CD-1 mice will be injected weekly with 50 ul TNBS in 40% ethanol intracolonically (i.c.) at 1mg/25g, 2mg/25g or 5mg/25g. Vehicle controls will receive 40% ethanol in water. Mice will be anesthetized under isoflurane anesthesia (induction 3.5-4%, 2.5-3.5% maintenance) and injected using a flexible PE-20 (0.015 inch diameter, 3-4 cm long) catheter with a blunt tip attached to a 1ml insulin syringe. The absence of a toe pinch response will be used to confirm sufficient level of anesthesia for injection. The tail of the anesthetized mouse will be lifted from the prone position and the catheter slowly inserted into the rectum of the mouse. If necessary, and as evident by resistance in introduction of the catheter, saline or lubricant (silicone based gel) will be applied to the outside surface of the catheter. Delivery of 50 ul TNBS solution will be performed slowly while retracting the catheter from the colon. Following the injection, the mouse will be returned to its cage and observed until it has completely recovered from anesthesia. Mice will be monitored for general health and signs of pain or discomfort (limited mobility, hunched posture and/or ruffled fur). Body weight measurements and daily recording of general appearance will be logged following i.c. injections until the completion of the experiment. TNBS administration induces colitis in mice so we expect to observe a reduction in body weight, diarrhea and/or signs of blood in the stool. However, we will look for signs of severe inflammation such as severe diarrhea, gross rectal bleeding and weight loss equal to or more than 15% of original weight. Should these occur the mice will be euthanized.

**Materials:**

\*I previously made my own catheters with PE-20 tubing, but now routinely use the flexible polypropylene Instech feeding tubes (20ga x 38 mm) also used to gavage our mice\*: <https://www.fishersci.com/shop/products/feeding-tube-20ga-38mm-250-pk/5081047>

1 ml BD Slip Tip Syringe sterile (309659): <http://catalog.bd.com/nexus-ecat/searchResults?keyword=309659>

TNBS/Picrylsulfonic acid solution (92822; 1M in water): <https://www.sigmaaldrich.com/catalog/product/sial/92822?lang=en&region=US>