Supplemental Figure 1



Supplemental (Web only figure) Figure 1. Touch Ca2+ or 5-HT Release is sensitive to MRS 2179 and 2MeSADP. BON cells responded to 2MeSADP with an increase of [Ca2+]i in a concentration-dependent manner over the range of 10µM - 1mM (10µM 2MeSADP 166%; 1mM 2MeSADP 241%, p<0.05). When cells were exposed to MRS 2179 but not touched, there was no change in [Ca2+]i baseline. The touch Ca2+ responses were significantly blocked by MRS 2179 (p<0.05, Supplemental Figure 1A). In BON cell monolayers a similar pattern was observed with either chemical or mechanical stimulation of 5-HT release. Both stimuli increased 5-HT release above baseline. Rotational shaking evoked 5-HT release that was sensitive to MRS 2179. The events occurring at the cellular level for Ca2+ with touch parallels the responses to chemical stimulation with 2MeSADP or rotational shaking evoked 5-HT release (Supplement Figure 1B; p<0.05).



Supplemental (Web only figure) Figure 2. A2B expression in submucous ganglia, neurons, crypt cells or hEC cells is reduced in ulcerative colitis. (A) The number of A2B+ ganglia/mm2 in the submucous plexus (SMP), inner SMP or outer SMP is reduced in UC compared to controls. (B) The number of A2B+ neurons/mm2 is reduced in inner SMP or outer SMP is reduced in UC. (C) The number of A2B+ crypt cells or 5-HT+ /A2B+ hEC cells is reduced in UC compared to control.