

Supplementary Table 1: The demographic and clinical information of patients

ID	Disease Type	Disease location at tissue sampling	Disease behaviour at time of tissue sampling	Age at tissue sampling	Sex	Medications at the time of tissue sampling	Anti_TNF antibody or not at time of tissue sampling	Experiment
1	UC	Proctitis	Mayo 1 (Mild)	29	Female	None	No	scRNAseq
2	UC	Left sided	Mayo 1 (Mild)	30	Male	Mesalamine	No	scRNAseq
3	UC	Proctitis	Mayo 3 (Severe)	26	Male	None	No	scRNAseq
4	UC	Proctitis	Mayo 2 (Moderate)	39	Female	Mesalamine	No	scRNAseq
5	IBD	Left sided	N/A	62	Female	Pentasa	No	bulk RNA seq
6	UC	Left sided	Mayo 1 (Mild)	34	Female	6MP and Humira	Yes	bulk RNA seq
7	UC	Left sided	Mayo 2 (Moderate)	27	Male	Mesalimine	No	bulk RNA seq
8	Heathy	N/A	N/A	53	Male	No	No	bulk RNA seq
9	Heathy	N/A	N/A	53	Male	No	No	ROS
10	Heathy	N/A	N/A	12	Female	No	No	ROS