

**Table S3.** Metadata related to intestinal tissue samples (related to Figures 1 and 7)

Patient ID	Diagnosis	Tissue	Age <sup>a</sup>	Gestational age <sup>b</sup>	Group assignment
AD_1	Bile duct carcinoma	Jejunum	Adult	n.d.	Adult_Ctrl_SI
AD_2	Ileostomy	Ileum	Adult	n.d.	Adult_Ctrl_SI
AD_3	Exclusion of malignancy	Ileum	Adult	n.d.	Adult_Ctrl_SI
AD_4	Ileostomy	Ileum	Adult	n.d.	Adult_Ctrl_SI
AD_5	Exclusion of malignancy	Colon/Rectum	Adult	n.d.	Adult_Ctrl_LI
AD_6	Exclusion of IBD	Colon	Adult	n.d.	Adult_Ctrl_LI
AD_7	Exclusion of malignancy	Colon	Adult	n.d.	Adult_Ctrl_LI
AD_8	Exclusion of collagen colitis	Colon	Adult	n.d.	Adult_Ctrl_LI
NEO_1	Intestinal atresia	Jejunum	4	35	Neonatal_Ctrl_SI
NEO_2	Intestinal atresia	Ileum	3	37	Neonatal_Ctrl_SI
NEO_3	Intestinal atresia	Ileum	8	25	Neonatal_Ctrl_SI
NEO_4	Inborn intestinal perforation	Ileum	25	23	Neonatal_Ctrl_SI
NEO_5	Ileostomy	Ileum	22	28	Neonatal_Ctrl_SI
NEO_6	Volvulus	Ileum	1	35	Neonatal_Ctrl_SI
NEO_7	Anal atresia	Colon/Rectum	1	34	Neonatal_Ctrl_LI
NEO_8	Anal atresia	Colon	2	41	Neonatal_Ctrl_LI
NEO_9	Inborn intestinal perforation	Colon	14	23	Neonatal_Ctrl_LI
NEO_10	Stenosis	Colon	14	28	Neonatal_Ctrl_LI
NEC_1	NEC	Ileum	9	24	Neonatal_NEC_SI
NEC_2	NEC	Ileum	6	25	Neonatal_NEC_SI
NEC_3	NEC	Ileum	23	30	Neonatal_NEC_SI
NEC_4	NEC	Ileum	14	24	Neonatal_NEC_SI
NEC_5	NEC	Ileum	15	23	Neonatal_NEC_SI
NEC_6	NEC	Colon	11	27	Neonatal_NEC_LI
NEC_7	NEC	Colon	30	28	Neonatal_NEC_LI
NEC_8	NEC	Colon	41	24	Neonatal_NEC_LI

IBD, inflammatory bowel disease; NEC, necrotizing enterocolitis; n.d., not determined; Ctrl, control (in terms of intestinal pathology); SI, small intestine; LI, large intestine

<sup>a</sup> Days in neonates , <sup>b</sup> Weeks in neonates.