

**Table S1. Serum biochemical parameters of human PSC/IBD patients.** Data was obtained from the University of Minnesota Liver Tissue cell Distribution Center NIH Contract #HHSN276201200017C., MELD (Model for End Stage Liver Disease), INR (International normalized ratio), AST (Aspartate Aminotransferase), Alk Phos (Alkaline Phosphatase). Data are Means+/-SEM, N=9.

Sex	Age	MELD	Pro Throm INR	Total Bilirubin	Creatinine	AST	Alk Phos	Albumin	Co- diagnosis
MALE	25	23	2.25	8.2	0.84	173	261	2.9	UC
FEMALE	51	16	1.37	4.9	0.73	105	453	2.9	UC
MALE	32	14	1.05	5.1	0.8	86	874	3.9	UC
MALE	58	30	1.73	11.1	0.74	200	368	2.5	UC
FEMALE	27	21	1.64	9.5	0.73	66	369	2.2	UC
MALE	59	13	1.25	1.8	0.89	90	767	2.8	UC
MALE	48	17	1.21	8.5	1	124	440	3.2	UC
MALE	53	38	1.68	26.9	5.9	44	205	3.7	UC
MALE	58	17	1.14	10	0.75	129	548	2.8	UC
Mean+/-SEM	45.67±4.61	21.00±2.75	1.48±0.13	9.56±2.38	1.38±0.57	113.00±16.60	476.11±73.87	2.99±0.18	