

**Supplementary table 1** Cellularity in the colonic mucosa between different IBS phenotypes (n=37).

	Overall (n=37)	Diarrhea-predominant IBS (n = 11)	Constipation-predominant IBS (n = 21)	Alternating-IBS (n = 5)	P value
<b>Neutrophils</b>	20/37 (54.0)	8/11 (72.7)	9/21 (42.9)	3/5 (60.0)	0.262*
<b>Eosinophils</b>	31/37 (83.8)	11/11 (100)	16/21 (76.2)	4/5 (80.0)	0.215*
<b>Lymphocytes</b>	29/37 (78.8)	11/11 (100)	14/21 (66.7)	4/5 (80.0)	0.093*
<b>Macrophages</b>	4/37 (10.8)	0	4/21 (19.0)	0	0.182*

IBS, irritable bowel syndrome.

\*Chi-squared test.

**Supplementary table 2** Distribution of pCLE-findings and Geboes score in the IBS and control groups.

	Overall (n = 74)	Geboes 0 (n = 11)	Geboes 1 (n = 4)	Geboes 2 (n = 37)	Geboes 3 (n = 9)	Geboes 4 (n = 13)	P value
IBS cases (n = 37)							
Vascularity changes	13	1	-	6	1	5	0.378*
Gaps increase	8	-	-	4	2	2	0.467*
Fluorescein leaks	10	1	-	6	0	3	0.827*
Intercrypt distance increase	10	-	-	7	2	1	0.743*
Cellular infiltration	12	-	2	7	1	2	0.415*
Healthy controls (n = 37)							
Vascularity changes	6	1	-	5	-	-	0.769*
Gap increase	7	-	-	5	-	2	0.081*
Fluorescein leaks	6	-	-	4	1	1	0.104*
Intercrypt distance increase	10	-	1	5	3	1	0.039*
Cellular infiltration	9	1	1	5	0	2	0.509*

IBS, irritable bowel syndrome; pCLE, probe-confocal laser endomicroscopy.

\*Mann–Whitney *U* test.