SUPPLEMENTAL FIGURES

Supplemental Figure 1. GM-CSF Ab in IBD. Serum GM-CSF autoantibody (GM-CSF Ab) concentration was determined by ELISA recognizing non-glycosylated GM-CSF in the pediatric (A1) and adult (A2) onset CD patients, UC patients, and healthy controls (CTRL) summarized in Table I (n = 354 IBD and 108 controls). *p<0.01 vs. A1CTRL and A1UC, ^p<0.01 vs. A2 CD, **p<0.01 vs. A2 CTRL. Data are shown as the median(range).

Supplemental Figure 2. GM-CSF Ab and CD Genotype and Duration of Disease. Serum GM-CSF autoantibody (GM-CSF Ab) concentration was determined by ELISA recognizing glycosylated GM-CSF in the pediatric (A1) and adult (A2) onset CD patients summarized in Table I (n = 354 IBD and 108 controls). A) The genotype for the indicated CD susceptibility genetic polymorphisms was determined. The median(range) GM-CSF Ab concentration is shown as a function of genotype. *p<0.01 vs. *IRGM* SNP- CD. B) Serum GM-CSF Ab concentration is shown as a function of duration of disease in the pediatric onset CD patients. C) Serum GM-CSF Ab concentration is shown as a function of duration of duration of disease in the adult onset CD patients.

Supplemental Figure 3. Frequency of Ileal Lamina Propria Macrophages and T Lymphocytes in Experimental Ileitis and Newly Diagnosed CD. The frequency of F4/80+ macrophages and CD3+ T lymphocytes was determined in ileal sections from the murine and human groups as indicated. WT: wild type, GMKO: *gm-csf* deficient, C15KO: *card15* deficient, PIR: received piroxicam, 200 ppm, in the chow, GM-CSF Ab: received neutralizing GM-CSF antibody, 50 mcg IP. CON: healthy human controls, CD: newly diagnosed CD. Images representative of at least four per group are shown. *p<0.001 vs. control with same genotype; **p=0.06 vs. C15KO control.

SUPPLEMENTAL TABLE

Supplemental Table I. Patient Characteristics.

Diagnosis	n	Age	Gender	Duration	Stricturing/Penetrating
		Median (range)	(male)	Median(range)	Behavior
A1 Ileal CD	24	13(5,18)	79	2(0,8)	46
A1 Ileo-colonic CD	132	12(1,19)	59	2(0,16)	34
A1 Colon-only CD	73	12(2,18)	63	3(0,25)	12
A1 Ulcerative Colitis	43	12(2,16)	61	4(1,16)	not applicable
A2 Ileal CD	17	30(23,53)	53	7(1,23)	76
A2 Ileo-colonic CD	28	36(21,68)	46	13(2,23)	68
A2 Colon-only CD	12	41(24,64)	42	11(2,37)	33
A2 Ulcerative Colitis	25	38(21,71)	64	8(1,21)	not applicable
CD Subset*	21	12(4,17)	76	2(1,8)	33

^{*}subset of CD patients used to determine neutrophil functional data; male gender and stricturing/penetrating behavior are relative frequencies, disease duration is in years.





