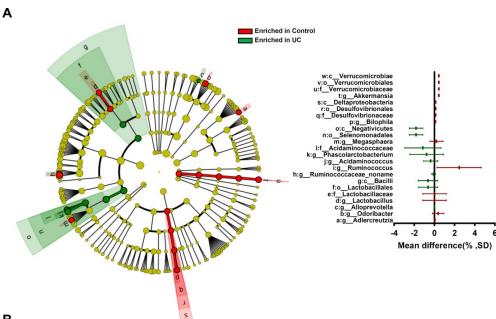
Supplementary Figure 6. Taxonomic features of UC patients from Spain IBD-corhort. (**A**) LDA Effect Size (LEfSe) cladograms of taxonomic abundance of metagenomic samples from controls and UC patients. The cladogram shows the taxonomic levels represented by rings with phyla at the innermost ring and genera at the outermost ring, and each circle is a member within that level. Taxa at each level are shaded green (enriched in UC) or red (enriched in Control) (P < 0.05; LDA

score > 2.0). (**B**) LDA effect size plots of species abundance of metagenomic samples from controls and UC patients. "*" in red indicates OGA encoding species. The LDA score indicated in the furthest right column according to the group in which it is more abundant (P < 0.05; LDA score >2.0).



Phylum	Class	Order	Family	Genus	Species	LDA score
Actinobacteria	Actinobacteria	Bifidobacteriales	Bifidobacteriaceae	Bifidobacterium	Dolescentis	
					Bifidum	
		Coriobacteriales	Coriobacteriaceae	Adlercreutzia	Equolifaciens	
Bacteroidetes Bacteroidia	Bacteroidia	Bacteroidales	Bacteroidaceae	Bacteroides	Xylanisolvens	
					Massiliensis*	
					Clarus	
			Porphyromonadaceae	Odoribacter	Splanchnicus	
				Parabacteroides	Goldsteinii*	
			Prevotellaceae	Alloprevotella	Unclassified	
			Rikenellaceae	Alistipes	Finegoldii	
					Shahii	
					Onderdonkii	
Firmicutes	Bacilli	Lactobacillales	Carnobacteriaceae	Granulicatella	Adiacens	
Clost	Clostridia	Clostridiales	Clostridiaceae	Clostridium	Nexile	
			Lachnospiraceae	Blautia	Hydrogenotrophica	
				Butyrivibrio	Crossotus	
				Coprococcus	Sp_art55_1	
			Peptostreptococcaceae	Peptostreptococcus	Stomatis	
					Anaerobius	
			Ruminococcaceae	Ruminococcaceae_noname	D16	
				Ruminococcus	Jc304	
					Bromii	
	Negativicutes	Selenomonadales	Acidaminococcaceae	Phascolarctobacterium	Succinatutens	
			Veillonellaceae	Megasphaera	Unclassified	
Proteobacteria	Deltaproteobacteria	Desulfovibrionales	Desulfovibrionaceae	Bilophila	Unclassified	
Verrucomicrobia	Verrucomicrobiae	Verrucomicrobiales	Verrucomicrobiaceae	Akkermansia	Muciniphila*	