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Abbreviations: inflammatory bowel diseases (IBD), gastrointestinal tract (GI tract), ulcerative colitis (UC), Crohn's disease (CD), genome-wide association study (GWAS), single-nucleotide polymorphism (SNP), nicotinamide adenine dinucleotide phosphate (NADPH), muramyl dipeptide (MDP), dextran sodium sulfate (DSS), short-chain fatty acids (SCFA), virus-like particle (VLP), anti-Saccharomyces cerevisiae antibody (ASCA), polysaccharide A (PSA), G-protein-coupled receptor 43 (GPR43), regulatory T cell (Treg), immunoglobulin A (IgA), adherent-invasive *Escherichia coli* (AIEC), fecal microbiota transplantation (FMT)

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