

## THE HALLMARKS OF INFLAMMATORY BOWEL DISEASE -IBD

**Susan A Joyce, Alvaro Lopez Gallardo, Julia Eickenberger, Adam Clooney, Cormac G Gahan, Carthage Moran, Marcus Claesson and Fergus Shanahan**

University College Cork, Ireland

Irritable bowel disease (IBD) includes Crohn's disease (CD) and Ulcerative colitis (UC), both characterized by chronic relapsing intestinal inflammation that leads to diminished quality of life, and during flare-up to severe disability. IBD is not a classic autoimmune disease, IBD etiology is believed to be complex and multifactorial with genetics, the exposome (environment, diet, lifestyle) the microbiome and the immune system interacting to manifest disease. Life style choices, the diet and metabolism can influence disease status, we have applied a multivariate approach to analyze the same IBD disease cohort across the BMI spectra, to include the microbiota, and microbially altered metabolites including precursors for bile acid synthesis, bile acids and fatty acid signatures as well as some gut hormone and inflammation levels. Hallmarks of IBD that differentiate CD and UC have been identified.

[s.joyce@ucc.ie](mailto:s.joyce@ucc.ie)

