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| Dataset | Sample type | Longitudinal study | Sample collection  method | Health condition of control group | Bioinformatic pipeline |
| Mottawea *et al* | Lavage | no | Samples were taken from ascending colon during colonoscopy. Samples were immediately flash frozen on dry ice and then transferred to be stored at -80 degrees Celsius | Individuals with suspected IBD that tested negative | QIIME 1.8.0 |
| Kim *et al*  (Information obtained from original study by Eun *et al*, and samples from SRA accession number SRP039586) | Stool and biopsy combination | no | Stool samples were collected in containers at home and stored at 4 °C. Upon arrival at the hospital, stool samples were frozen at −80 °C. Mucosal tissue samples were obtained from IBD patients during colonoscopies and immediately stored at −80 °C. | Healthy controls that underwent screening | QIIME |
| Morgan *et al* 2012 | no | Newly diagnosed CD, UC, or indeterminate colitis patients. All individuals were aged 18 years or older. During colonoscopies some participants donated biopsies that were stored at -80°C until DNA extraction. Stool samples were kept at 4°C for less than 24 hours before also being stored at -80°C until DNA extraction | Healthy controls that underwent screening | MOTHUR |
| Schirmer *et al* | yes | Stool and biopsy samples retrieved from paediatric, new-onset, treatment-naïve UC patients over the course of a year as treatment was taking place. Rectal biopsies were obtained from colonoscopies and samples were stored at -80 °C before DNA extraction. | UC patients with inactive disease. | UPARSE |
| Forbes *et al* | Stool | yes | Patients with CD, UC, MS, and RA self-collected 2 stool samples (2 months apart). These stool samples were stored at 4°C until transported to the lab in which they were put on ice and then stored at -80°C. | Healthy controls | MOTHUR |
| Yamada *et al* | no | Stool samples from 44 healthy participants, 10 CD patients and 49 UC patients were collected at the department of Gastroenterology and Hepatology in Osaka University Hospital. | Healthy controls | QIIME |
| Jacobs *et al* | no | Newly defecated feces from pediatric CD and UC patients were frozen immediately in the clinic or at home at -80 °C. Patients were given supplies, including cold packs, for appropriate at-home collection and storage conditions. | Healthy relatives | QIIME 1.8.0 |
| Halfvarson *et al* | yes | Fecal samples were self-collected by study participants and stored at -80 °C until they were shipped on dry ice and then processed. | Healthy controls | QIIME 1.9.0 |
| Braun *et al* | no | Adult CD patients were included in this study. Fecal samples were self-collected from participants and brought to the clinic within 24 hours where they were then stored at -80 °C. | Healthy controls | QIIME 1.9.1 |
| Gevers *et al* - stool | no | A population of adolescence with newly diagnosed CD and controls with non-inflammatory gastrointestinal conditions took part in this study. Biopsies were retrieved from the ileum and rectum and placed into a sterile contained on ice during procedures. After the procedure they were stored at 4°C. locally until they were shipped within 3 days and stored at -80°C at the biospecimen repository. | Subjects with non-inflammatory conditions of the gastrointestinal tract. | QIIME 1.7.0 |
| Gevers *et al* -biopsy | Biopsy | no |
| Liu *et al* | no | CD patients with Paneth cell phenotype were selected for this study. Biopsies were retrieved from the terminal ileum and placed in a sterile cryovial on ice in the endoscopic suite. | Non-IBD controls with gastrointestinal symptoms | QIIME 1.5.0 |
| Lloyd-Price *et al* | yes | Patients from five medical centers were recruited in this study. Biopsy samples were collected during the screening colonoscopy at the clinic at each follow-up sessions (five follow-up sessions). Samples were retrieved from the ileum and rectum as well as discretionary inflammatory sites. Additional biopsies were taken from areas of inflammation and surrounding areas that were not inflamed from some patients with CD and UC. For microbial molecular data generation, samples were stored at -20°C. | A combination of healthy individuals and individuals that has suspected IBD or gastrointestinal symtoms but tested negative for iBD. | USEARCH v7.0.1090 |
| Morgan *et al* 2015 | no | Patients were enrolled if they had undergone proctocolectomy with ileal pouch-anal anastomosis (IPAA) for treatment of UC or Familial adenomatous polyposis (FAP) at least 1 year prior to recruitment. Biopsies were retrieved frm the mid-portion of the pouch and the pre-pouch ileum during proctoscopy. One biopsy from each participants was obtained for microbial analysis and was snap frozen in liquid nitrogen. All samples were stored long-term at -80°C. |  |  |