

Table 1: Datasets used in the meta-analysis by number of samples and diseases.

Author	Number of Samples	Test Condition
Chengping Wen ³²	97	Rheumatoid Arthritis
Lawrence David ⁷⁵	49	Infectious Gastroenteritis
Qiang Feng ⁷⁶	154	Fatty Liver, Hypertension, Colorectal Adenoma, Colorectal Cancer, Type 2 Diabetes
Gopalakrishnan Vancheswaran ³³	25	Melanoma
Geoffrey Hannigan ⁷⁷	82	Colorectal Cancer (CRC), Colorectal adenoma (adenoma)
Zhuye Jie ⁷⁸	385	Atherosclerotic Cardiovascular Disease
Karlsson FH ⁷⁹	145	Impaired Glucose Tolerance
Silas Kieser ⁸⁰	27	Acute Diarrhea
Aleksandar Kostic ⁸¹	120	Type 1 Diabetes (T1D)
Jing Li ⁸²	260	Hypertension
SS Li ⁸³	55	Metabolic Syndrome
Rohit Loomba et al. ³⁴	86	Fatty Liver
Vyara Matson ³⁵	39	Melanoma
H Nielsen ⁸⁴	396	Inflammatory Bowel Disease (IBD), Behcet Disease (BD)
Junjie Qin ⁸⁵	344	Type 2 Diabetes (T2D)
Nan Qin ⁸⁶	237	Cirrhosis, Ascites, Hepatitis B Virus (HBV)
Andrew Maltez Thomas ¹¹	80	Hypertension, CRC, T2D, Adenoma, Hypercholesterolemia
Tommi Vatanen ⁷⁰	785	Otitis, Skin Infection, Pyelonephritis, Stomatitis, Cystitis, Pyelonephritis, Salmonella, Bronchitis, Tonsillitis, Pneumonia
Caroline Vincent ⁸⁷	229	Infectious Gastroenteritis, C. difficile, Cellulitis, Pneumonia
Emily Vogtmann ⁴⁶	104	Colorectal Cancer (CRC)
Zi Ye ⁸⁸	65	Behcet Disease
Jun Yu ⁸⁹	128	Colorectal Cancer (CRC)
Georg Zeller ⁴⁷	199	Colorectal Cancer (CRC), Adenoma