**Table S1**.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample ID** | **Gender** | **Age** | **Ethnic background** | **Classification** | **Disease stage** | **Number of reads** | **Processed reads** |
| D3340P | M | 58 | Caucasian | Normal |   | 27,002,901  | 5,085,400  |
| D3176P | F | 52 | Caucasian | Normal |   | 27,957,185  | 4,933,712  |
| D3142P | F | 54 | Caucasian | Normal |   | 28,214,261  | 4,826,682  |
| 022273P | F | 52 | Caucasian | Colorectal cancer | I | 21,132,674  | 2,183,460  |
| 022163P | F | 56 | Caucasian | Colorectal cancer | III | 23,547,368  | 2,879,950  |
| 022299P | M | 46 | Caucasian | Colorectal cancer | III | 22,729,858 | 1,351,471  |
| 93163P | M | 67 | Caucasian | Ulcerative colitis | 10 (a) | 20,626,993  | 2,638,989  |
| 93164P | M | 58 | Caucasian | Ulcerative colitis | 11 (a) | 18,186,259  | 2,807,184  |
| 93166P | F | 48 | Caucasian | Ulcerative colitis | 11 (a) | 28,426,819  | 3,378,222  |
| ***(a):*** *Based on Mayo Scoring System for Assessment of Ulcerative Colitis Activity* |  |  |  |  |