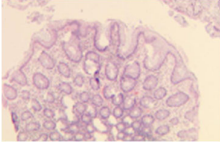
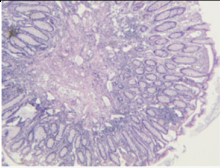
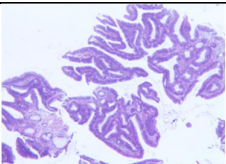
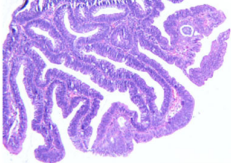
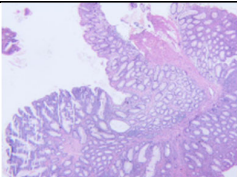
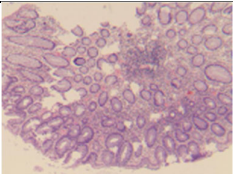
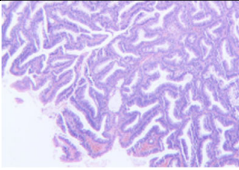


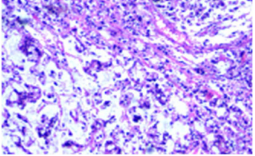
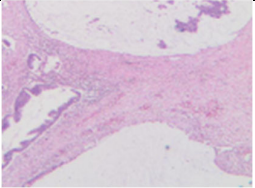
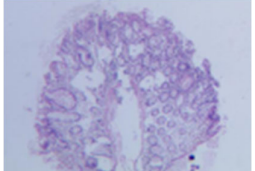
Supplementary table 1. Summary of CRC patients and healthy people. The numbers correspond to the numbers in the sample names of 16S rRNA sequencing reads (supplementary table 2).

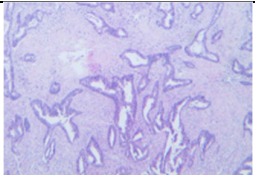
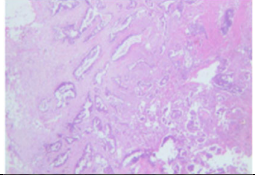
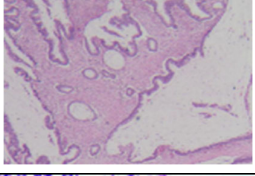
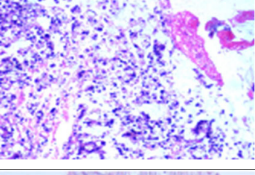
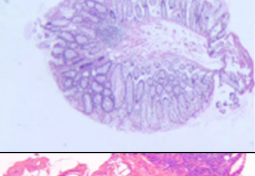
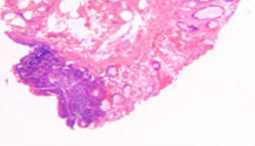
CRC patients diagnosed with stage I

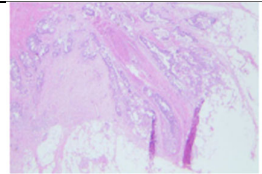
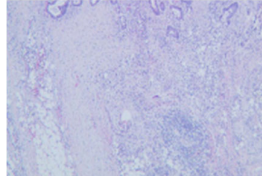
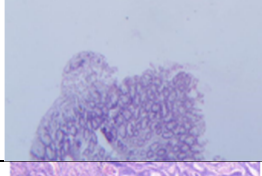
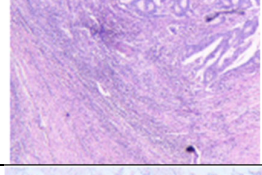
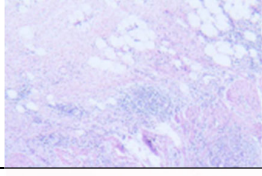
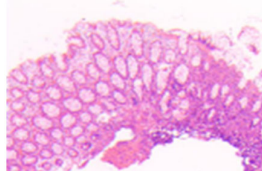
| number | sex | age | location | type (adenocarcinoma) | TNM | pathological diagnostic im- age |
|--------|--------|-----|----------|-------------------------|---|---|
| 5 | female | 71 | colon | moderate differentiated | PT ₂ N ₀ M _x |  |
| 9 | male | 78 | rectum | moderate differentiated | PT ₂ N ₀ M _x |  |
| 11 | male | 56 | rectum | moderate differentiated | PT ₂ N ₀ M _x |  |
| 38 | female | 74 | colon | moderate differentiated | PT ₂ N ₀ M _x |  |
| 41 | female | 65 | colon | moderate differentiated | PT ₂ N ₀ M _x |  |

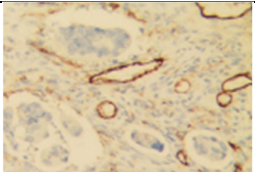
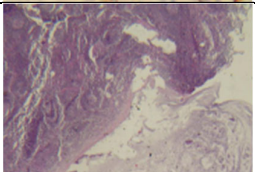
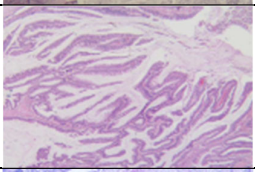
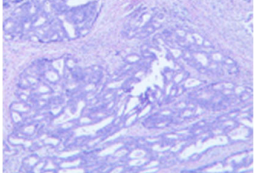
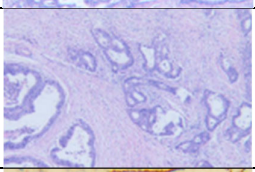
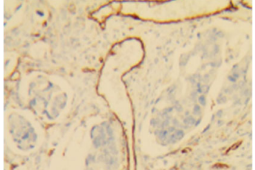
| | | | | | | | |
|----|--------|----|--------|------------------------------|---|---|--|
| 66 | male | 73 | rectum | well/moderate differentiated | PT ₂ N ₀ M _x |  | |
| 74 | female | 64 | colon | moderate differentiated | PT ₂ N ₀ M _x |  | |

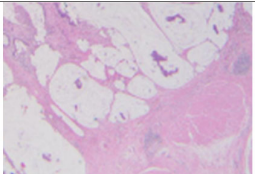
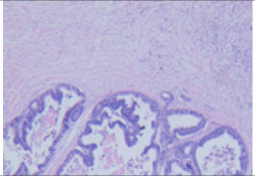
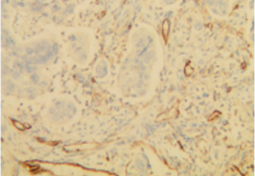
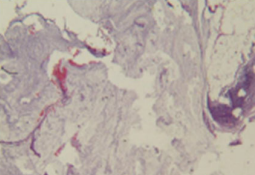
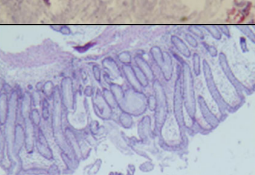
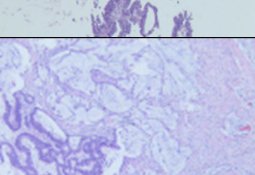
CRC patients diagnosed with stage II

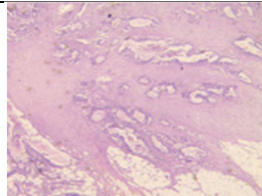
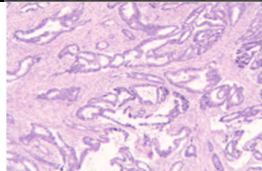
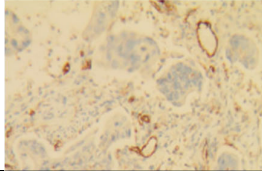
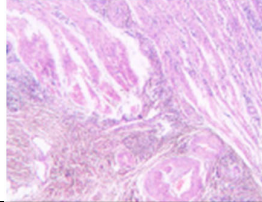
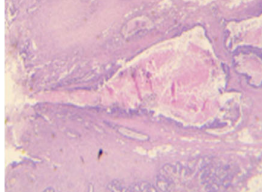
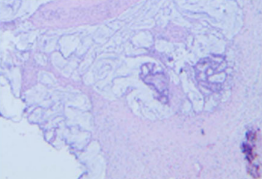
| number | sex | age | location | type (adenocarcinoma) | TNM | pathological diagnostic image | |
|--------|--------|-----|----------|-------------------------|---|---|--|
| 6 | female | 61 | rectum | moderate differentiated | PT ₃ N ₀ M _x |  | |
| 12 | male | 66 | rectum | poorly differentiated | PT ₃ N ₀ M _x |  | |
| 13 | male | 70 | rectum | moderate differentiated | PT ₃ N ₀ M _x |  | |

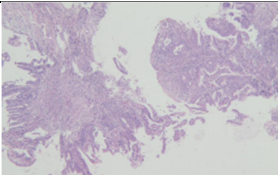
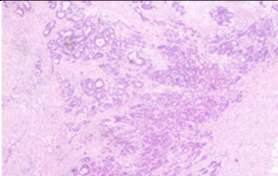
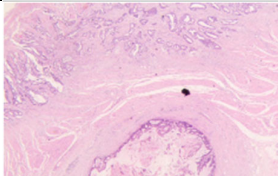
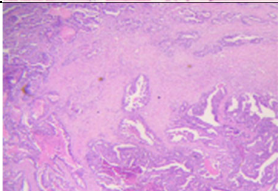
| | | | | | | |
|----|------|----|--------|--------------------------------|---|---|
| 17 | male | 50 | rectum | moderate differentiated | PT ₃ N ₀ M _x |  |
| 18 | male | 72 | rectum | moderate differentiated | PT ₃ N ₀ M _x |  |
| 25 | male | 64 | rectum | moderate/poorly differentiated | PT ₃ N ₀ M _x |  |
| 28 | male | 67 | rectum | poorly differentiated | PT ₃ N ₀ M _x |  |
| 30 | male | 71 | rectum | mucinous | PT ₃ N ₀ M _x |  |
| 37 | male | 52 | rectum | moderate differentiated | PT ₃ N ₀ M _x |  |

| | | | | | | |
|----|--------|----|--------|--------------------------------|---|---|
| 43 | male | 68 | rectum | moderate differentiated | PT ₃ N ₀ M _x |  |
| 48 | male | 62 | rectum | moderate/poorly differentiated | PT ₃ N ₀ M _x |  |
| 49 | male | 61 | rectum | moderate differentiated | PT ₃ N ₀ M _x |  |
| 50 | female | 81 | rectum | moderate differentiated | PT ₄ N ₀ M _x |  |
| 51 | male | 71 | rectum | moderate differentiated | PT ₃ N ₀ M _x |  |
| 52 | male | 61 | rectum | moderate differentiated | PT ₃ N ₀ M _x |  |

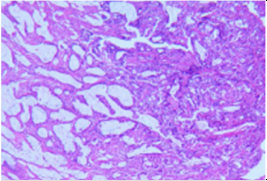
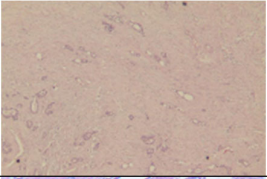
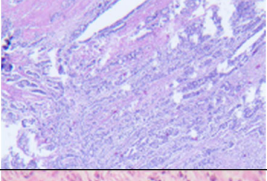
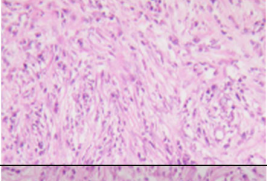
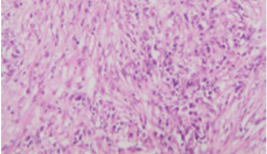
| | | | | | | |
|----|--------|----|--------|-------------------------|---|---|
| 57 | male | 60 | rectum | moderate differentiated | PT ₃ N ₀ M _x |  |
| 58 | male | 66 | rectum | moderate differentiated | PT ₃ N ₀ M _x |  |
| 60 | male | 81 | rectum | moderate differentiated | PT ₃ N ₀ M _x |  |
| 61 | male | 55 | rectum | moderate differentiated | PT ₃ N ₀ M _x |  |
| 62 | female | 75 | rectum | moderate differentiated | PT ₃ N ₀ M _x |  |
| 65 | female | 74 | rectum | moderate differentiated | PT ₃ N ₀ M _x |  |

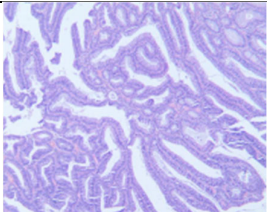
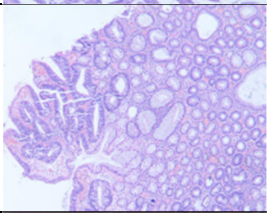
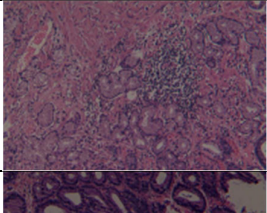
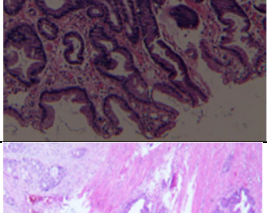
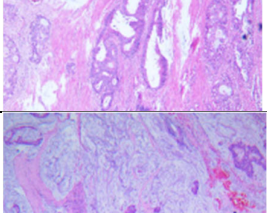
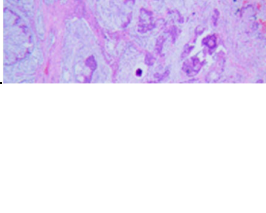
| | | | | | | |
|----|--------|----|---------------|------------------------------|---|---|
| 69 | female | 43 | rectum | moderate differentiated | PT ₃ N ₀ M _x |  |
| 71 | female | 76 | rectum | moderate differentiated | PT ₃ N ₀ M _x |  |
| 1 | male | 76 | sigmoid colon | well/moderate differentiated | PT ₃ N ₀ M _x |  |
| 8 | female | 57 | right colon | well/moderate differentiated | PT ₃ N ₀ M _x |  |
| 14 | female | 68 | right colon | mucinous | PT ₃ N ₀ M _x |  |
| 21 | female | 65 | sigmoid colon | moderate differentiated | PT ₃ N ₀ M _x |  |

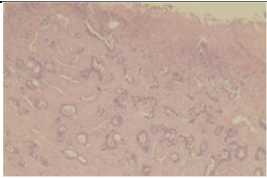
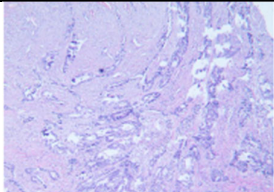
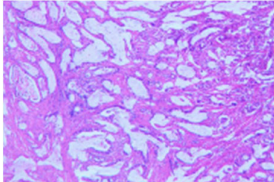
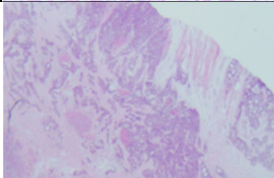
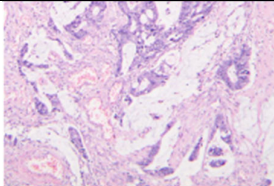
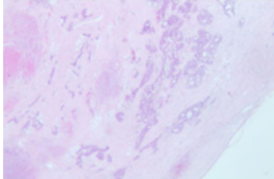
| | | | | | | | |
|----|--------|----|--------------------|--------------------------------|---|---|--|
| 22 | female | 48 | colon | moderate differentiated | PT ₃ N ₀ M _x |  | |
| 24 | female | 76 | colon | moderate differentiated | PT ₃ N ₀ M _x |  | |
| 27 | male | 53 | rectosigmoid colon | rectumcancer | PT ₃ N ₀ M _x |  | |
| 44 | male | 64 | sigmoid colon | moderate-poorly differentiated | PT ₄ N ₀ M _x |  | |
| 45 | male | 74 | sigmoid colon | moderate differentiated | PT ₃ N ₀ M _x |  | |
| 54 | male | 59 | sigmoid colon | moderate-poorly differentiated | PT ₃ N ₀ M _x |  | |

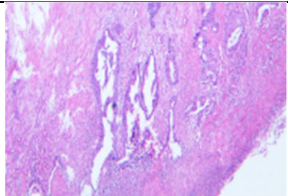
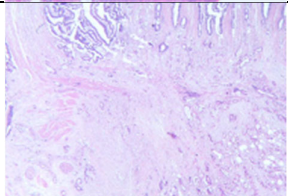
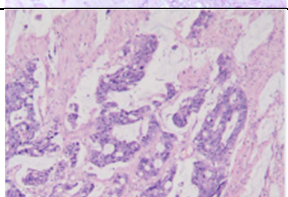
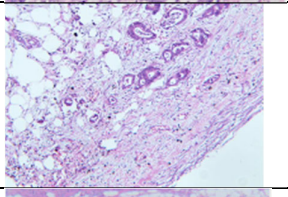
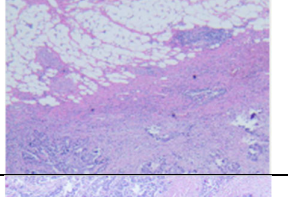
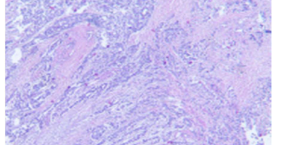
| | | | | | | |
|----|--------|----|--------------------|--------------------------------|---|---|
| 55 | female | 45 | right colon | moderate-poorly differentiated | PT ₄ N ₀ M _x |  |
| 63 | female | 57 | rectosigmoid colon | moderate differentiated | PT ₄ N ₀ M _x |  |
| 68 | male | 70 | rectosigmoid colon | moderate differentiated | PT ₄ N ₀ M _x |  |
| 72 | female | 53 | left colon | moderate differentiated | PT ₄ N ₀ M _x |  |

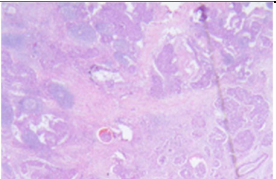
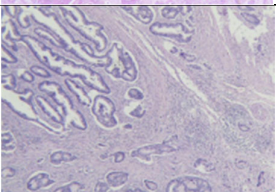
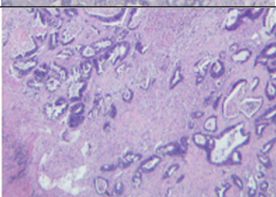
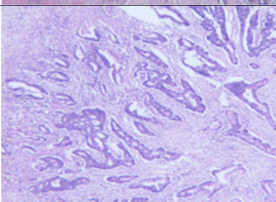
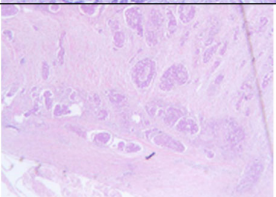
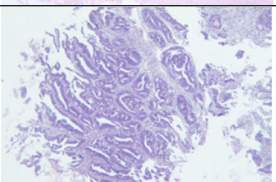
CRC patients diagnosed with stage III

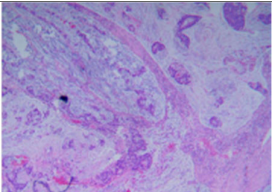
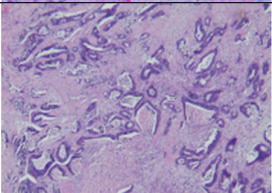
| number | sex | age | location | type (adenocarcinoma) | TNM | pathological diagnostic im- age |
|--------|--------|-----|----------|-------------------------|---|---|
| 2 | male | 69 | rectum | moderate differentiated | PT ₄ N ₂ M _x |  |
| 7 | female | 57 | rectum | moderate differentiated | PT ₃ N ₁ M _x |  |
| 10 | female | 65 | rectum | moderate differentiated | PT ₃ N ₁ M _x |  |
| 16 | female | 55 | rectum | poorly differentiated | PT ₃ N ₂ M _x |  |
| 19 | male | 58 | rectum | moderate differentiated | PT ₃ N ₂ M _x |  |

| | | | | | | | |
|----|--------|----|--------|--------------------------------|---|---|--|
| 20 | male | 60 | rectum | poorly differentiated | PT ₃ N ₂ M _x |  | |
| 23 | male | 68 | rectum | poorly differentiated | PT ₃ N ₂ M _x |  | |
| 32 | female | 49 | rectum | moderate-poorly differentiated | PT ₂ N ₁ M _x |  | |
| 34 | female | 72 | rectum | moderate-poorly differentiated | PT ₂ N ₁ M _x |  | |
| 35 | male | 79 | rectum | moderate-poorly differentiated | PT ₄ N ₁ M _x |  | |
| 36 | male | 29 | rectum | moderate differentiated | PT ₄ N ₁ M _x |  | |

| | | | | | | | |
|----|--------|----|--------|--------------------------------|---|---|--|
| 40 | female | 61 | rectum | moderate differentiated | PT ₃ N ₁ M ₀ |  | |
| 46 | female | 49 | rectum | moderate differentiated | PT ₃ N ₂ M _x |  | |
| 53 | male | 67 | rectum | moderate-poorly differentiated | PT ₄ N ₂ M _x |  | |
| 59 | female | 67 | rectum | moderate-poorly differentiated | PT ₄ N ₂ M _x |  | |
| 73 | male | 80 | rectum | poorly differentiated | PT ₄ N ₂ M _x |  | |
| 75 | male | 48 | rectum | poorly differentiated | PT ₄ N ₂ M _x |  | |

| | | | | | | | |
|----|--------|----|--------------------|--------------------------------|---|---|--|
| 3 | female | 68 | sigmoid colon | moderate differentiated | PT ₄ N ₁ M _x |  | |
| 4 | male | 68 | sigmoid colon | moderate-poorly differentiated | PT ₄ N ₂ M _x |  | |
| 15 | male | 77 | colon | moderate-poorly differentiated | PT ₄ N ₂ M _x |  | |
| 26 | female | 58 | rectosigmoid colon | moderate differentiated | PT ₄ N ₂ M _x |  | |
| 29 | male | 82 | rectosigmoid colon | moderate differentiated | PT ₃ N ₂ M _x |  | |
| 31 | male | 53 | colon | familial polyposis | PT ₃ N ₁ M _x |  | |

| | | | | | | | |
|----|--------|----|--------------------|--------------------------------|---|---|--|
| 56 | male | 60 | ileocecum lymphoma | moderate-poorly differentiated | PT ₃ N ₁ M _x |  | |
| 47 | female | 74 | right colon | moderate differentiated | PT ₃ N ₁ M _x |  | |
| 39 | female | 46 | right colon | moderate-poorly differentiated | PT ₄ N ₁ M _x |  | |
| 33 | male | 54 | rectosigmoid colon | rectumcancer | PT ₃ N ₂ M _x |  | |
| 64 | female | 57 | rectosigmoid colon | moderate-poorly differentiated | PT ₃ N ₁ M _x |  | |
| 42 | male | 35 | descending colon | moderate differentiated | PT ₃ N ₁ M _x |  | |

| | | | | | | | |
|----|------|----|--------------------|-------------------------|---|---|--|
| 67 | male | 58 | rectosigmoid colon | moderate differentiated | PT ₄ N ₁ M _x |  | |
| 70 | male | 79 | rectosigmoid colon | mucinous | PT ₄ N ₁ M _x |  | |