Descriptions of Additional Supplementary Files

Supplementary Data 1

Description: Bacterial phyla differential tests (Pvalues) in healthy controls, adenomas and CRC

Supplementary Data 2

Description: Differentially abundant ASVs between control and adenoma (P<0.05).

Supplementary Data 3

Description: Differentially abundant ASVs between adenoma and cancer (P<0.05).

Supplementary Data 4

Description: Gut microbiome-based markers discriminated between control and adenoma.

Supplementary Data 5

Description: Gut microbiome-based markers discriminated between adenoma and cancer.

Supplementary Data 6

Description: Biomarkers of two meta-analyses and this study for distinguishing control and CRC.

Supplementary Data 7

Description: Node numbers of differential ASVs between control and adenoma.

Supplementary Data 8

Description: Node numbers of differential ASVs between adenoma and cancer.

Supplementary Data 9

Description: The input features of RF model for validation cohort 1.

Supplementary Data 10

Description: The input features of RF model for validation cohort 2.

Supplementary Data 11

Description: Differentially abundant pathways between control and adenoma (P<0.05)

Supplementary Data 12

Description: Differentially abundant pathways between adenoma and cancer (P<0.05).

Supplementary Data 13

Description: Average distribution of each ASV of healthy subjects and adenoma patients.

Supplementary Data 14

Description: Average distribution of each ASV of adenoma patients and CRC.

Supplementary Data 15

Description: The input feature of RF models for non-CRC diseases.