

COLORECTAL CANCER

Chromosome Unstable (CIN) pathway
Microsatellite Unstable (MSI) pathway

Normal epithelium

Dysplastic ACF

Early adenoma

Intermediate adenoma

Late adenoma

Carcinoma

Colorectal epithelial cell

Genetic alterations

Oncogenes : β -catenin, K-Ras

Tumor suppressors : APC, DCC, TGF β RII, Smad2, Smad4, Bax, p53

DNA repair genes : hMLH1, hMSH2, hMSH3, hMSH6

