

Table S1: Comparisons of IHC scores in 41 human paired colorectal adenomas, CRC tumor centers and CRC invasive fronts

Groups	PPARD*	total active β -catenin*	nuclear β -catenin*	EIF4G1*	nuclear CDK1*
CRC > Adenoma [#]	79.5 (31/39)	76.9 (30/39)	35.9 (14/39)	89.7 (35/39)	97.4 (38/39)
Tumor center > Adenoma [#]	69.2 (27/39)	71.8 (28/39)	28.2 (11/39)	87.2 (34/39)	97.4 (38/39)
Invasive front > Adenoma [#]	79.5 (31/39)	76.9 (30/39)	35.9 (14/39)	89.7 (35/39)	92.3 (36/39)
Invasive front > Tumor center	34.1 (14/41)	24.4 (10/41)	22.0 (9/41)	51.2 (21/41)	29.3 (13/41)

*: percentage of examined cases. Numbers of cases are listed in parentheses.

[#]: Two cases out of total 41 cases had no adenoma lesions in the examined slides

Table S2: Gene expression upregulation in CRC invasive fronts versus paired CRC tumor centers in relation to nuclear β -catenin localization

Groups	nuclear β -catenin*	PPARD*	EIF4G1*	nuclear CDK1*
All cases (41)	22.0 (9/41)	34.1 (14/41)	51.2 (21/41)	29.3 (13/41)
without nuclear β -catenin localization in invasive fronts	N/A	40.6 (13/32)	53.1 (17/32)	31.3 (10/32)

*: percentage of examined cases. Numbers of cases are listed in parentheses.