

Supplementary Materials

Clinicopathological and Molecular Profiles of Sporadic Microsatellite Unstable Colorectal Cancer with or without the CpG Island Methylator Phenotype (CIMP)

Shih-Ching Chang, Anna Fen-Yau Li, Pei-Ching Lin, Chun-Chi Lin, Hung-Hsin Lin, Shen-Chieh Huang, Chien-Hsing Lin, Wen-Yi Liang, Wei-Shone Chen, Jeng-Kai Jiang, Jen-Kou Lin, Shung-Haur Yang and Yuan-Tzu Lan

Table S1. The MMR immunohistochemical status for each protein, methylation status for each CIMP marker and mutation status of MMR genes stratified by CIMP status in MSI-H CRC.

	Total Patients n = 92	CIMP-0 n = 25	CIMP-Low n = 44	CIMP-high n = 23	p value
Loss of MMR Protein Expression	42 (45.7)	8 (32.0)	17 (38.6)	17 (73.9)	0.006
<i>MSH2</i>	5 (5.4)	1 (4.0)	2 (4.5)	2 (8.7)	0.482
<i>MSH6</i>	8 (8.7)	3 (12.0)	0	5 (21.7)	0.268
<i>MLH1</i>	26 (28.3)	3 (12.0)	10 (22.7)	13 (56.5)	0.002
<i>PMS2</i>	37 (40.2)	6 (24.0)	17 (38.6)	14 (60.9)	0.032
Methylation Status of CIMP					
Marker					
<i>CACNA1G</i>	36 (39.1)	0	13 (29.5)	23 (100)	<0.001
<i>CDKN2A (P16)</i>	39 (42.4)	0	25 (56.8)	14 (60.9)	<0.001
<i>CRABP1</i>	44 (47.8)	0	21 (47.4)	23 (100)	<0.001
<i>IGF2</i>	30 (32.6)	0	13 (29.5)	17 (73.9)	<0.001
<i>MLH1</i>	24 (26.1)	0	3 (6.8)	21 (91.3)	<0.001
<i>NEUROG1</i>	17 (18.5)	0	4 (9.1)	13 (56.5)	<0.001
<i>RUNX3</i>	20 (87.0)	0	10 (22.7)	20 (87.0)	<0.001
<i>SOCS1</i>	15 (16.3)	0	5 (11.4)	10 (43.5)	<0.001
MMR Mutation	64 (69.6)	16 (64.0)	31 (70.5)	17 (73.9)	0.745
<i>MSH6</i>	40 (43.5)	8 (32.0)	19 (43.2)	13 (56.5)	0.231
<i>MLH1</i>	20 (21.7)	5 (20.0)	10 (22.7)	5 (21.7)	0.966
<i>MSH2</i>	16 (17.4)	6 (24.0)	5 (11.4)	5 (21.7)	0.337
<i>PMS2</i>	19 (20.7)	5 (20.0)	10 (22.7)	4 (17.4)	0.873
<i>EPCAM</i>	6 (6.5)	2 (8.0)	3 (6.8)	1 (4.3)	0.872

CIMP: 5'-C-phosphate-G-3' island methylator phenotype; MMR: mismatch repair; bold: statistically significant.