

15-00843 Supplementary Tables

Supplementary Table 1: List of potential prognostic histone modification markers in colorectal cancer

Histone	Active/Inactive mark	Source	Number of patients	Dysregulation in CRC tissues	Method	Reference
Active mark						
H3K4me3	active	primary tissues	121 (Stage I/II)	high levels indicate poor prognosis	IHC	Benard et al. ¹⁵⁴
H3K56ac	active	primary tissues	254	low levels indicate poor prognosis	IHC	Benard et al. ¹⁵⁵
H4K16ac	active	primary tissues	254	low levels indicate poor prognosis	IHC	Benard et al. ¹⁵⁵
Inactive mark						
H3K9me2	inactive	tissues in hepatic metastasis	54	low levels indicate poor prognosis	IHC	Tamagawa et al. ¹⁵³
H3K9me3	inactive	primary tissues	121 (Stage I/II)	low levels indicate poor prognosis	IHC	Benard et al. ¹⁵⁴
H3K27me2	inactive	primary tissues	54	low levels indicate poor prognosis	IHC	Tamagawa et al. ¹⁵⁶
H4K20me3	inactive	primary tissues	121 (Stage I/II)	low levels indicate poor prognosis	IHC	Benard et al. ¹⁵⁴

Supplementary Table 2: List of potential prognostic lncRNA markers in colorectal cancer

LncRNA	Genomic location	Description of the lncRNA	Function in tumorigenesis of CRC	Functional mechanism	Reference
Oncogenic lncRNA					
HOTAIR	Chr12q13.13	Homeobox Transcript Antisense Intergenic RNA	invasion, migration	Gene silencing by binding to PRC2 and LSD1	Svoboda et al. ²⁸⁶
PCAT-1	Chr8q24.21	Prostate cancer-associated ncRNA transcripts 1	-	Transcriptional repression	Ge et al. ³⁴⁷
PVT-1	Chr8q24.21	-	proliferation, invasion	A p53-inducible target miR-1204	Takahashi et al. ³⁴⁸
MALAT-1	Chr11q13.1	Metastasis associated lung adenocarcinoma transcript 1	proliferation, invasion, migration	Modulating RNA splicing; protein interaction	Zheng et al. ²⁸⁸
91H	Chr11p15.5	H19 antisense RNA	proliferation, migration, invasiveness	Unknown	Deng et al. ³⁴⁹
UCA1	Chr19p13.12	Urothelial carcinoma-associated 1	proliferation, apoptosis	Unknown	Han et al. ³⁵⁰
LSINCT5	Chr5p15.33	Long stress-induced non-coding transcript 5	proliferation, invasion	Unknown	Xu et al. ³⁵¹
Tumor-suppressive lncRNA					
uc.73a	Chr2q22.3	-	proliferation, apoptosis	Unknown	Calin et al. ³⁵²
LOC285194	chr3q13.31	-	-	Unknown	Qi et al. ³⁵³
ncRAN	Chr17q25.1	Non-coding RNA expressed in aggressive neuroblastoma	invasion, migration	Unknown	Qi et al. ³⁵⁴
RP11-462C24.1	chr4q25	-	-	Unknown	Shi et al. ³⁵⁵
GAS5	Chr1q25.1	Growth arrest-specific 5	-	Titrate GR away from target genes	Yin et al. ³⁵⁶
MEG3	Chr14q32.2	Maternally expressed gene 3	proliferation	Modulation TP53 and Rb related pathway	Yin et al. ³⁵⁷