**CD10 - metastasis enhancer in colorectal cancer**

CD10 is a widely expressed endopeptidase, which is expressed in human colorectal cancer (CRC) metastasizing to the liver at high frequency. CD10 expression in CRC cells is associated with liver metastasis in the rodent models. CD10 expression upregulates phosphorylation levels of EGFR and ERK1/2. Met-enkephalin (MENK), one of CD10 substrate activates its specific receptor delta-opioid receptor (DOR), which is expressed in CRCs. DOR is a partial agonist of ERK1/2, which suppresses EGF-induced phosphorylation of EGFR and ERK1/2. CD10 retains EGF-induced EGFR activation by degrading MENK. Paradoxically, CRCs express MENK at high frequency. Since MENK shows suppressive effect on T lymphocytes, CD10 expressing-CRCs can escape from T cell immunity without inhibition of themselves.
