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Author: Jia Lu, Xiangcang Ye, Fan Fan, Ling Xia, ...

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Endothelial cells in colorectal cancer

Chen WZ *et al.* Endothelial cells in CRC

Wu-Zhen Chen, Jing-Xin Jiang, Xiu-Yan Yu, Wen-Jie Xia, Peng-Xin Yu, Ke Wang, Zhi-Yong Zhao, Zhi-Gang Chen

Abstract

The dependence of tumor growth on neovascularization has become an important aspect of cancer biology. Tumor angiogenesis is one of the key mechanisms of tumorigenesis, growth and metastasis. The key events involved in this process are endothelial cell proliferation, migration, and vascular formation. Recent studies have revealed the importance of tumor-associated endothelial cells (TECs) in the development and progression of colorectal cancer (CRC), including epithelial proliferation, stem cell maintenance, angiogenesis, and immune remodeling. Decades of research have identified that the molecular basis of tumor angiogenesis includes vascular endothelial



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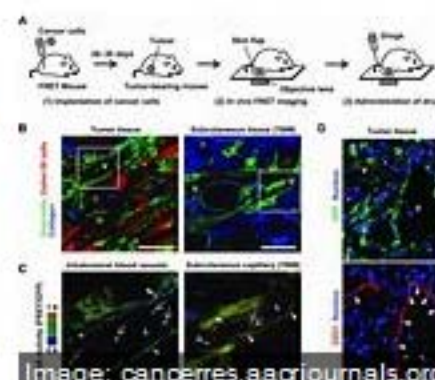
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Jan 01, 2019 · Previously, it was demonstrated that endothelial cells (EC) from the liver (liver parenchymal ECs or LPEC), the most common site of colorectal cancer metastases, secrete soluble factors in the conditioned medium (CM) that, in turn, increase the cancer stem cell phenotype in colorectal cancer cells.

Author: Rui Wang, Rajat Bhattacharya, Xiang... Publish Year: 2019

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We found that endothelial cell (EC)-derived soluble factors enhance the cancer stem cell (CSC) phenotype and chemoresistance of colorectal cancer (CRC) cells. This suggests that ECs in the tumor microenvironment are more than simply conduits for blood flow—they also actively secrete factors that promote tumor cell survival and growth.

Cited by: 271 Author: Jia Lu, Xiangcang Ye, Fan Fan, Ling Xia, ...

Publish Year: 2013