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Changes in extracellular matrix in different stages of colorectal cancer and their effects on the proliferation of cancer cells

Zhu-Lin Li, Zhen-Jun Wang, Guang-Hui Wei, Yang Yong, Xiao-Wan Wang

Abstract

BACKGROUND

The extracellular matrix is the main component of the tumor microenvironment. Extracellular matrix remodels with the oncogenesis and development of tumors. Previous studies usually focused on the changes of proteins between normal colorectal tissues and colorectal cancers. Little is known about the changes in extracellular matrix in different stages of colorectal cancer and the effects of these changes on the development of cancers.

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3927155>

Changes in polarity in cancer. Loss of apical-basal polarity is one of the hallmarks of epithelial cancers and it occurs in the early **stages** of tumor progression in breast tissue, but later in **colorectal cancer** where it correlates with the appearance of invasive migratory **cells** at the tumor margin and the appearance of tumor cell islands .

Cited by: 18

Author: Lindsay Hinck, Inke Näthke

Publish Year: 2014

Colorectal cancer liver metastatic growth depends on PAD4 ...

<https://www.nature.com/articles/s41467-018-07306-7>

Nov 14, 2018 · Here we show that citrullination of the **extracellular matrix** by cancer cell derived peptidylarginine deiminase 4 (PAD4) is essential for the growth of liver metastases from **colorectal cancer** ...

Cited by: 10

Author: A. E. Yuzhalin, A. N. Gordon-Weeks, M. ...

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Author: A. E. Yuzhalin

Collagen as a double-edged sword in tumor progression

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3980040>

Dec 15, 2013 · **Collagen changes** in tumor microenvironment release biomechanical signals, which are sensed by both **tumor cells** and stromal cells, trigger a cascade of biological events. In this work, we discuss how collagen can be a double-edged sword in **tumor progression**, both inhibiting and promoting **tumor progression** at **different stages** of cancer development.

Cited by: 198

Author: Min Fang, Jingping Yuan, Chunwei Peng, ...

Publish Year: 2014

The cancer matrisome: From comprehensive characterization ...

<https://www.sciencedirect.com/science/article/pii/S1084952117305803>

Changes in ECM stiffness and composition supportive of tumor cell **proliferation** and primary tumor growth were also demonstrated in a model of **colorectal cancer** . Using decellularized ECMs from normal colon or liver metastasis from **colorectal tumor**, Romero-López et al., demonstrated that **colorectal tumor cells** seeded on decellularized **matrix** ...

Cited by: 11

Author: Alexandra M. Socovich, Alexandra Naba, ...

Publish Year: 2019