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Single-cell analysis of tumors: Creating new value for molecular biomarker discovery of cancer stem cells and tumor-infiltrating immune cells

Radpour R *et al.* Molecular biomarkers for tumor cells

Ramin Radpour, Farzad Forouharkhou

Abstract

Biomarker-driven individualized treatment in oncology has made tremendous progress through technological developments, new therapeutic modalities and a deeper understanding of the molecular biology for tumors, cancer stem cells (CSCs) and tumor-infiltrating immune cells. The recent technical developments have led to the establishment of a variety of cancer-related diagnostic, prognostic and predictive biomarkers. In this regard, different modern OMICs approaches were assessed in order to categorize and prognostically classify different

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2018年1月17日 - Keywords: cancer stem cells, tumor-initiating cells, renal cell carcinoma, biomarkers ...

In particular, intra-tumor and inter-tumor heterogeneity is one of the major ... The tumor microenvironment (TME), stromal cells, soluble molecules, ... generate new stem cell branches and, at the same time, tumor cells in ...

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2014年8月12日 - Methods of single cell transcriptome analyses have been developed and ... of putative cancer stem cells, gene expression profiles of intracellular ... regulation networks or develop new molecular or cellular therapies. ... single cell sequencing to define the existence of discovered genes Create collection.

Recent progress in single-cell cancer genomics - ScienceDirect

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作者: W Chung - 2017 - 被引用次数: 63 - 相关文章

2017年5月5日 - **Single-cell** transcriptome profiling of **tumour** tissue isolates allows the ... Many **molecular**-targeted treatments for breast **cancer** have been ... **Immune cell infiltrates** are composed of **cells** from multiple lineages that may play pleiotropic roles. ... **cell** type selection to **generate** RNA-seq data containing 5.8 ± 1.3 ...

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