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Basic Study

Identification of a nine-gene prognostic signature for gastric carcinoma using integrated bioinformatics analyses

Kun-Zhe Wu, Xiao-Hua Xu, Cui-Ping Zhan, Jing Li, Jin-Lan Jiang

Abstract

BACKGROUND

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Our study **identified a nine-gene signature** and a **prognostic nomogram** incorporating the **gene signature** and **clinical prognostic** factors to predict overall survival of **pancreatic cancer**. The **nine-gene signature** was closely associated with the progression, aggressiveness, and prognosis of **pancreatic cancer** and its constituents are potential therapeutic targets.

Author: Mengwei Wu, Xiaobin Li, Taiping Zh... **Publish Year:** 2019

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The high-risk group was enriched with multiple oncological **signatures** and aggressiveness-related pathways and associated with significantly lower levels of CD4+ T cell infiltration. Conclusion: Our study identified a **nine-gene signature** and established a **prognostic** nomogram that reliably predict overall survival in pancreatic **cancer**.

Author: Mengwei Wu, Xiaobin Li, Taiping Zh... **Publish Year:** 2019

Identification of genes and analysis of prognostic values ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6183654>

Oct 08, 2018 · **Identification of genes and analysis of prognostic values in nonsmoking females with non-small cell lung carcinoma** by bioinformatics analyses Guangda Yang , 1 Qianya Chen , 1 Jieming Xiao , 2 Hailiang Zhang , 1 Zhichao Wang , 1 and Xiangnan Lin 3

Cited by: 3 **Author:** Guangda Yang, Qianya Chen, Jieming X...

Publish Year: 2018

Prognostic Value of a Nine-Gene Signature in Glioma ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6493176>

Identification of 9-Gene Signature and its Association with Survival and Expression from the Training Set In the 220 glioma samples of all grades, we used a two-sided log-rank test to analyze

Identification of a nine-gene prognostic signature for gastric carci



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Identification of a Nine-Gene Signature and Establishment ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6776930>

Sep 27, 2019 · The **nine-gene signature** was closely associated with the progression, aggressiveness, and **prognosis** of pancreatic **cancer** and its constituents are potential therapeutic targets. The **prognostic** nomogram reliably predicted overall survival in pancreatic **cancer** and may facilitate individualized treatment and making of medical decisions.

Cited by: 2**Author:** Mengwei Wu, Xiaobin Li, Taiping Zhang, ...**Publish Year:** 2019

Frontiers | Identification of a Nine-Gene Signature and ...

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Finally, a prognostic nomogram was established based on the TCGA PAAD dataset. Results: A nine-gene signature comprising MET, **KLK10**, **COL17A1**, **CEP55**, **ANKRD22**, **ITGB6**, **ARNTL2**, **MCOLN3**, and **SLC25A45** was established to predict overall survival of pancreatic cancer.

Cited by: 2**Author:** Mengwei Wu, Xiaobin Li, Taiping Zhang, ...**Publish Year:** 2019

Prognostic value of gastric cancer-associated gene ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6201382>

Selecting differentially expressed genes (DEGs) based on integrated bioinformatics analyses has been used in previous studies to explore potential biomarkers in gastric cancer (GC) with microarray and RNAsequencing data. However, the genes obtained may be inaccurate because **of noisy data and**



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Identification of a Nine-Gene Signature and Establishment ...

<https://pubmed.ncbi.nlm.nih.gov/31612115>

The nine-gene signature could **classify patients into high- and low-risk groups with distinct overall survival and differentiate tumor from normal tissue**. Univariate Cox regression revealed that the nine-gene signature was an independent prognostic factor in pancreatic cancer.

Cited by: 2**Author:** Mengwei Wu, Xiaobin Li, Taiping Zhang, ...**Publish Year:** 2019

Identification of a 6-lncRNA prognostic signature based on ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6943089>

Nov 19, 2019 · 1. INTRODUCTION. **Gastric cancer** (GC) is an important **cancer** worldwide, and nearly 1 000 000 new cases were reported in 2018. GC is a common **cancer** (ranking as the fifth) and the third common cause of **cancer** death. 1 The incidence of GC morbidity is two times higher in males than that in females. *Helicobacter pylori* has been shown to be the major risk factor for GC, and the new cases ...

Cited by: 1**Author:** Bin Ma, Yongmin Li, Yupeng Ren**Publish Year:** 2020

Identification of a six-gene signature with prognostic ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6247034>

Oct 10, 2018 · In colorectal **cancer**, a seven-gene **signature** (NHLRC3, ZDHHC21, PRR14L, CCBL1, PTPRB, PNPO, and PPIP5K2) was constructed that can predict the OS of patients. 20 Another study **using** the Gene Expression Omnibus (GEO) database identified and verified a **prognostic nine-gene** expression **signature** (NR1I2, LGALS1, C10RF198, CST2, LAMP5, FOXS1 ...

Cited by: 8**Author:** Yizi Wang, Fang Ren, Peng Chen, Shuan...**Publish Year:** 2018

(PDF) Identification of a Nine-Gene Signature and ...

<https://www.researchgate.net/publication/336096474...>

The nine-gene signature could **classify patients into high- and low-risk groups with distinct overall survival and differentiate tumor from normal tissue**. Univariate Cox regression revealed that the...

Identification of biomarkers associated with diagnosis and ...