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Name of Journal: *World Journal of Gastroenterology*
Manuscript NO: 53441
Manuscript Type: ORIGINAL ARTICLE

Basic Study
Neoadjuvant chemoradiation changes podoplanin expression in esophageal cancer patients

Warnecke-Eberz U *et al.* Chemoradiation dependent podoplanin expression

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Abstract
BACKGROUND
Locally advanced adenocarcinoma of the esophagus (EAC) and squamous cell carcinoma (ESCC) result in a worse prognosis. Neoadjuvant treatment improves survival, however, only for responders. The transmembrane glycoprotein podoplanin is overexpressed in squamous cell carcinomas, miRNA-363 is associated to its regulation in head and neck cancer.

AIM
Markers predicting therapy response and prognosis, and targets for novel

Match Overview		
1	Crossref 29 words Lowe, Kate L., Leyre Navarro-Nunez, and Stephen P. W... son. "Platelet CLEC-2 and podoplanin in cancer metasta	1%
2	Internet 28 words crawled on 07-Nov-2019 www.frontiersin.org	1%
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[PDF] Podoplanin and SOX2 expression in esophageal ...

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noma because the knockdown of podoplanin expression results in vulnerability to anticancer drugs, defective invasion and tumorigenic activity (8-10). It has been reported that a high level of podoplanin expression correlates with a poor prognosis in oral and esophageal cancer (11-13). Additionally,

Preoperative chemoradiation therapy for esophageal cancer ...

<https://academic.oup.com/dote/article-abstract/29/1/70/2194950> ▾

Jan 01, 2016 · We herein clarified the time course of changes in the serum high mobility group box chromosomal protein-1 (HMGB-1) concentrations in esophageal cancer patients after esophagectomy, and investigated whether the perioperative serum HMGB-1 levels correlate with the administration of neoadjuvant chemoradiation therapy (NACRT) and the postoperative clinical course, especially the occurrence of pulmonary complications, in such patients.

Cited by: 3 Author: R. Takahata, S. Ono, H. Tsujimoto, S. Hir...

Publish Year: 2016

Current strategies in chemoradiation for esophageal cancer

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4074950>

May 16, 2014 · Targeted agents. Attempts to use cetuximab in the treatment of esophageal cancer have not been encouraging however. RTOG 0436 randomized 344 unselected, inoperable esophageal cancer patients to cisplatin, paclitaxel, and radiation (50.4 Gy) versus the same therapy with concurrent weekly cetuximab (59).

Cited by: 30 Author: Shane Lloyd, Bryan W. Chang

Publish Year: 2014

[PDF] Neoadjuvant irinotecan, cisplatin, and concurrent ...

<https://dash.harvard.edu/bitstream/handle/1/27822247/4944495.pdf?sequence=1&isAllowed=y>

Background: Patients with locally advanced esophageal cancer who are treated with trimodality therapy have a high recurrence rate. Preclinical evidence suggests that inhibition of cyclooxygenase 2 (COX2) increases the effectiveness of chemoradiation, and observational studies in humans suggest that COX-2 inhibition may reduce esophageal cancer risk.

Gene Expression Analysis of Diagnostic Biopsies Predicts ...

<https://insights.ovid.com/annals-surgery/ansu/2009/11/000/gene-expression-analysis...> ▾

Objective: This study explored gene expression differences in predicting response to chemoradiotherapy



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Podoplanin and SOX2 expression in esophageal squamous cell ...

<https://www.ncbi.nlm.nih.gov/pubmed/21811761>

Neoadjuvant chemo-radiotherapy (CRT) followed by surgery are the standard approaches for locally advanced **esophageal cancer**. However, the overall cure rate is very low. The aim of this preliminary study was to evaluate the **expression** of **podoplanin** and SOX2 known as stemness markers for **esophageal** squamous cell carcinoma (ESCC) and their ...

Cited by: 18

Author: Susumu Saigusa, Yasuhiko Mohri, Mas...

Publish Year: 2011

[PDF]

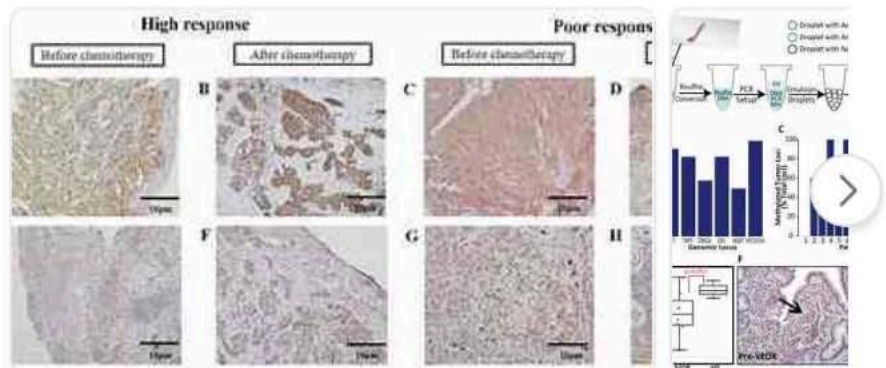
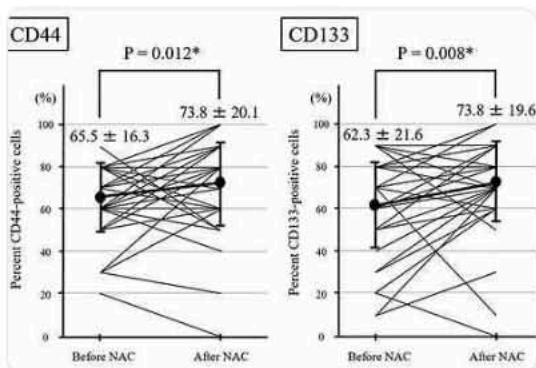
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Current strategies in chemoradiation for esophageal cancer

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4074950>

May 16, 2014 · The standard strategy for the **treatment of thoracic** locally advanced **esophageal cancer** is now **neoadjuvant chemoradiation** followed by **surgery** ("tri-modality therapy"). This strategy has resulted in better outcomes than **surgery** alone in several randomized trials (12-15) including higher overall survival in a meta-analysis .

Cited by: 30

Author: Shane Lloyd, Bryan W. Chang

Publish Year: 2014

Neoadjuvant Chemoradiation for Rectal Cancer: Analysis of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1421320>

Although primary **tumor response** to **neoadjuvant chemoradiation** has been shown to have prognostic significance in **esophageal cancer** 29 and **gastric cancer**, 30 scant data exist regarding the importance of tumor downstaging at other primary sites. For **breast cancer and pancreatic cancer**, studies have shown nodal downstaging to be prognostic but have not analyzed primary tumor response.

Cited by: 192

Author: Mark W. Onaitis, Robert B. Noone, Matth...

Publish Year: 2001

Predicting the Response of Neoadjuvant Therapy for ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4615355>

Currently, the most promising strategy to improve the **prognosis** of advanced **esophageal cancer** is **neoadjuvant chemoradiation** (CRT) followed by surgery. However, **patients** who achieved pathological complete response can **experience** more survival benefit. Therefore, it is critical to identify the responders early in the course of **treatment**.

Cited by: 10

Author: Chang-Juan Tao, Gang Lin, Ya-Ping Xu, ...