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<https://pubs.rsna.org/doi/10.1148/radiol.2017171654>

Nov 20, 2017 · Release of cell-free microRNA tumor biomarkers into the blood circulation with pulsed focused ultrasound: a noninvasive, anatomically localized, molecular liquid biopsy. Radiology 2017 ;283(1):158–167.

Cited by: 1 Author: Hong Pan, Wenbin Zhou, Shui Wang

Publish Year: 2017

Pulsed High-Intensity Focused Ultrasound Enhances Delivery ...

<https://cancerres.aacrjournals.org/content/75/18/3738> ▾

Sep 15, 2015 · To induce localized inertial cavitation in pancreatic tumors, pulsed high-intensity focused ultrasound (pHIFU) was used either during or before doxorubicin administration to elucidate the mechanisms of enhanced drug delivery (active vs. passive drug diffusion).

Cited by: 25 Author: Tong Li, Yak Nam Wang, Tatiana D. Khok...

Publish Year: 2015

A meta-analysis of palliative treatment of pancreatic ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5376281>

Apr 01, 2017 · Anzidei M, et al. Magnetic resonance–guided high-intensity focused ultrasound treatment of locally advanced pancreatic adenocarcinoma: preliminary experience for pain palliation and local tumor control.

Cited by: 16 Author: Susan Dababou, Cristina Marrocchio, Jarr...

Publish Year: 2017

Prognostic Biomarkers in Pancreatic Ductal Adenocarcinoma ...

<https://practicalgastro.com/.../prognostic-biomarkers-in-pancreatic-ductal-adenocarcinoma> ▾

Despite major advances in the therapies of many solid tumors, survival in pancreatic ductal adenocarcinoma (PDAC) has not improved. 1 Delayed diagnosis, aggressive biology and marked chemoresistance have all contributed to this disappointing trend. Prognostic biomarkers inform of a likely cancer outcome (disease recurrence, progression or death) independent of type of treatment.

Joint Annual Meeting ISMRM-ESMRMB 2018

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MR-guided Focused Ultrasound (MRgFUS) is used transcranially to ablate brain tissue for the

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Biomarkers in pancreatic adenocarcinoma: current perspectives

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5158171>

Dec 09, 2016 · One recently published study established that screening high-risk individuals can be successful.66 Vasen et al performed a screening program consisting of yearly magnetic resonance imaging and possible **endoscopic ultrasound** for patients with **familial pancreatic cancer (FPC)** or gene defects known to predispose to PDAC.

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Validation of Biomarkers for Early Detection of Pancreatic ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5777224>

A number of recent published articles on **biomarkers** and **imaging** methods for early PDAC and/or PanIN-3 detection were discussed and evaluated during this workshop. An area of increasing clinical importance is **treatment of pancreatic** cysts, intraductal papillary mucinous neoplasm (IPMN) and mucinous cystic neoplasm (MCN).

Cited by: 8

Author: Matthew R. Young, Paul D. Wagner, Shar...

Publish Year: 2018

[PDF] RESEARCH Open Access Focused ultrasound-mediated ...

<https://jtutrasound.biomedcentral.com/track/pdf/10.1186/2050-5736-1-11>

Methods: **Focused ultrasound-mediated drug** delivery was performed under **magnetic resonance imaging guidance (MRgFUS)** in a **pancreatic ductal adenocarcinoma (PDA)** model grown subcutaneously in nu/nu mice. **Paclitaxel (PTX)** was used as a chemotherapeutic agent because it manifests high potency in the **treatment of gemcitabine-resistant PDA**.

Name of Journal: World Journal of Gastroenterology

Manuscript NO: 52229

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Magnetic resonance imaging biomarkers for pulsed focused ultrasound treatment of pancreatic ductal adenocarcinoma

Ezekiel Maloney, Yak-Nam Wang, Ravneet Vohra, Helena Son, Stella Whang, Tatiana Khokhlova, Joshua Park, Kayla Gravelle, Stephanie Totten, Joo Ha Hwang, Donghoon Lee

Abstract

BACKGROUND

The robust fibroinflammatory stroma characteristic of pancreatic ductal adenocarcinoma

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