

Accepted Manuscript

Elevated levels of circulating osteopontin are associated with a poor survival after resection of cholangiocarcinoma

Sven H. Loosen, Christoph Roderburg, Katja L. Kauertz, Inês Pombeiro, Catherine Leyh, Fabian Benz, Mihael Vucur, Thomas Longerich, Alexander Koch, Till Braunschweig, Tom F. Ulmer, Christoph Heidenhain, Frank Tacke, Marcel Binnebösel, Maximilian Schmeding, Christian Trautwein, Ulf P. Neumann, Tom Luedde

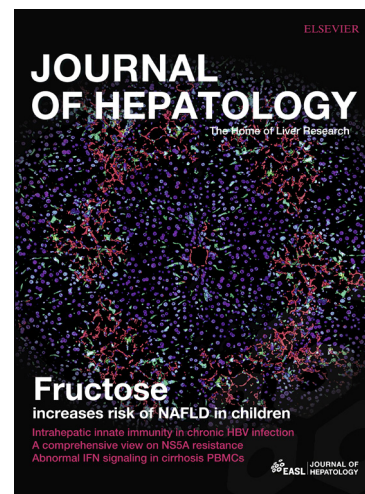
PII: S0168-8278(17)32121-9
DOI: <http://dx.doi.org/10.1016/j.jhep.2017.06.020>
Reference: JHEPAT 6578

To appear in: *Journal of Hepatology*

Received Date: 13 February 2017
Revised Date: 11 May 2017
Accepted Date: 8 June 2017

Please cite this article as: Loosen, S.H., Roderburg, C., Kauertz, K.L., Pombeiro, I., Leyh, C., Benz, F., Vucur, M., Longerich, T., Koch, A., Braunschweig, T., Ulmer, T.F., Heidenhain, C., Tacke, F., Binnebösel, M., Schmeding, M., Trautwein, C., Neumann, U.P., Luedde, T., Elevated levels of circulating osteopontin are associated with a poor survival after resection of cholangiocarcinoma, *Journal of Hepatology* (2017), doi: <http://dx.doi.org/10.1016/j.jhep.2017.06.020>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Elevated levels of circulating osteopontin are associated with a poor survival after resection of cholangiocarcinoma

Sven H. Loosen^{1,*}, Christoph Roderburg^{1,*}, Katja L. Kauertz², Inês Pombeiro², Catherine Leyh², Fabian Benz², Mihael Vucur², Thomas Longerich³, Alexander Koch¹, Till Braunschweig³, Tom F. Ulmer⁴, Christoph Heidenhain⁴, Frank Tacke¹, Marcel Binnebösel⁴, Maximilian Schmeding⁵, Christian Trautwein¹, Ulf P. Neumann^{4,#}, Tom Luedde^{1,2,#}

¹ Department of Medicine III, University Hospital RWTH Aachen, Pauwelsstrasse 30, 52074 Aachen, Germany

² Division of Gastroenterology, Hepatology and Hepatobiliary Oncology, University Hospital RWTH Aachen, Pauwelsstrasse 30, 52074 Aachen, Germany

³ Institute of Pathology, University Hospital RWTH Aachen, Pauwelsstrasse 30, 52074 Aachen, Germany

⁴ Department of Visceral and Transplantation Surgery, University Hospital RWTH Aachen, Pauwelsstrasse 30, 52074 Aachen Germany

⁵ Department of Surgery, Klinikum Dortmund, Beurhausstraße 40, 44137 Dortmund, Germany

* These authors share first authorship

These authors share senior authorship

متن کامل مقاله

دریافت فوری ←

ISIArticles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات