

**5**  
**Name of journal:** World Journal of Hepatology  
**ESPS Manuscript NO:** 15818  
**Columns:** Review

**Evaluation of antiangiogenic efficacy in advanced hepatocellular carcinoma: Biomarkers and functional imaging**

Mohamed Bouattour, Audrey Payancé, Johanna Wassermann

#### Abstract

Many years after therapeutic wilderness, sorafenib finally showed a clinical benefit in patients with advanced hepatocellular carcinoma (HCC). After the primary general enthusiasm worldwide, some disappointments emerged particularly since no new treatment could exceed or at least match sorafenib in this setting. Without these new drugs, research focused on optimizing care of patients treated with sorafenib. One challenging research approach deals with identifying prognostic and predictive biomarkers of sorafenib in this population. The task still seems difficult; however appropriate investigations could resolve this dilemma, as observed for some malignancies where other drugs were used.

**Key words:** Hepatocellular carcinoma; Antiangiogenic therapies; Sorafenib; Predictive biomarkers; Prognosis biomarkers; Functional imaging

**18**  
**Core tip:** The approval of sorafenib in advanced HCC is based on the positive results of two large randomized phase III clinical trials. The inter- and intra-individual

#### Match Overview

1	Internet 117 words crawled on 17-Nov-2009 <a href="http://www.nature.com">www.nature.com</a>	1%
2	Internet 116 words crawled on 07-May-2015 <a href="http://www.ncbi.nlm.nih.gov">www.ncbi.nlm.nih.gov</a>	1%
3	Internet 70 words crawled on 18-Mar-2014 <a href="http://effiloop.com">effiloop.com</a>	<1%
4	Internet 48 words crawled on 26-Jun-2013 <a href="http://theoncologist.alphamedpress.org">theoncologist.alphamedpress.org</a>	<1%
5	Internet 44 words crawled on 10-Oct-2014 <a href="http://www.wjgnet.com">www.wjgnet.com</a>	<1%
6	Internet 41 words crawled on 07-Jan-2015 <a href="http://www.ilca2013.org">www.ilca2013.org</a>	<1%
7	Internet 31 words crawled on 16-Oct-2010 <a href="http://www.biomedcentral.com">www.biomedcentral.com</a>	<1%
8	Internet 29 words crawled on 30-May-2014 <a href="http://www.hematologyandoncology.net">www.hematologyandoncology.net</a>	<1%
9	CrossCheck 25 words Personeni, Nicola, Silvia Bozzarelli, Tiziana Pressiani, Lorenza Rimassa, Maria Chiara Tronconi, Francesco Sci	<1%
10	Internet 25 words crawled on 01-Nov-2010 <a href="http://lib.bioinfo.nl">lib.bioinfo.nl</a>	<1%

[网页](#)[图片](#)[新闻](#)[视频](#)[购物](#)[更多 ▾](#)[搜索工具](#)

找到约 339,000 条结果 (用时 0.64 秒)

## Google 学术: Evaluation of antiangiogenic efficacy in advanced hepatocellular carcinoma: Biomarkers and functional imaging

... in advanced hepatocellular carcinoma: a phase II ... - Zhu - 被引用次数: 385

... in patients with advanced hepatocellular carcinoma - Shao - 被引用次数: 91

... hepatocellular carcinoma using image biomarkers, CT ... - Jiang - 被引用次数: 87

## Predictive Biomarkers of Antiangiogenic Therapy for ...

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > ... > Literature > PubMed Central (PMC) - 翻译此页

作者: YY Shao - 2013 - 被引用次数: 14 - 相关文章

2013年4月15日 - Advanced hepatocellular carcinoma (HCC), defined as metastatic or locally advanced ... According to Response Evaluation Criteria In Solid Tumors ... and the efficacy of sorafenib or other antiangiogenic therapies in advanced HCC. .... supporting the potential use of DEC-MRI or other functional imaging ...

## Imaging for assessment of treatment response in ...

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > ... > Literature > PubMed Central (PMC) - 翻译此页

作者: K Hayano - 2015 - 相关文章

Morphologic methods such as the Response Evaluation Criteria in Solid Tumors ... Hepatocellular carcinoma (HCC) is the sixth most common cancer and the third ... Imaging plays an important role in the management of HCC, and the efficacy of ... Functional imaging will serve as a biomarker for response assessment of ...

## Magnetic resonance imaging biomarkers in hepatocellular ...

[www.jhoonline.org/content/6/1/51](http://www.jhoonline.org/content/6/1/51) ▾ 翻译此页

作者: DV Sahani - 2013 - 被引用次数: 20 - 相关文章

2013年7月10日 - Hepatocellular carcinoma; Antiangiogenic treatment; Image ... Advanced HCC carries a poor prognosis, and systemic therapy with ... We also postulated that imaging biomarkers correlate with circulating biomarkers measured in plasma. .... Due to deficiencies in RECIST for evaluating treatment efficacy in ...

## Imaging angiogenesis: role in measuring response to ...

[www.futuremedicine.com](http://www.futuremedicine.com) > eBooks > TOC ▾ 翻译此页



网页

图片

新闻

视频

更多 ▾

搜索工具

找到约 336,000 条结果 (用时 1.08 秒)

## Google 学术: Evaluation of antiangiogenic efficacy in advanced hepatocellular carcinoma: Biomarkers and functional imaging

... in advanced hepatocellular carcinoma: a phase II ... - Zhu - 被引用次数: 386

... in patients with advanced hepatocellular carcinoma - Shao - 被引用次数: 91

... hepatocellular carcinoma using image biomarkers, CT ... - Jiang - 被引用次数: 87

### Predictive Biomarkers of Antiangiogenic Therapy for ...

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > ... > Literature > PubMed Central (PMC) - 翻译此页

作者: YY Shao - 2013 - 被引用次数: 14 - 相关文章

2013年4月15日 - Advanced hepatocellular carcinoma (HCC), defined as metastatic or locally advanced ... According to Response Evaluation Criteria In Solid Tumors ... identify biomarkers that either predict the efficacy of antiangiogenic therapy ..... supporting the potential use of DEC-MRI or other functional imaging studies ...

### Imaging for assessment of treatment response in ...

[www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov) > ... > Literature > PubMed Central (PMC) - 翻译此页

作者: K Hayano - 2015 - 相关文章

Morphologic methods such as the Response Evaluation Criteria in Solid Tumors ... Hepatocellular carcinoma (HCC) is the sixth most common cancer and the third ... Imaging plays an important role in the management of HCC, and the efficacy of ..... Functional imaging will serve as a biomarker for response assessment of ...

### Magnetic resonance imaging biomarkers in hepatocellular ...

[www.jhoonline.org/content/6/1/51](http://www.jhoonline.org/content/6/1/51) ▾ 翻译此页

作者: DV Sahani - 2013 - 被引用次数: 20 - 相关文章