Accepted Manuscript

Targeted Fe-filled carbon nanotube as a multifunctional contrast agent for thermoacoustic and magnetic resonance imaging of tumor in living mice

Wenzheng Ding, Cunguang Lou, Jieshan Qiu PhD, Zongbin Zhao PhD, Quan Zhou MD, Minjie Liang, Sihua Yang PhD, Zhong Ji, Da Xing PhD

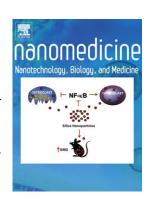
PII: S1549-9634(15)00174-4

DOI: doi: 10.1016/j.nano.2015.08.008

Reference: NANO 1177

To appear in: Nanomedicine: Nanotechnology, Biology, and Medicine

Received date: 11 March 2015 Revised date: 24 July 2015 Accepted date: 30 August 2015



Please cite this article as: Ding Wenzheng, Lou Cunguang, Qiu Jieshan, Zhao Zongbin, Zhou Quan, Liang Minjie, Yang Sihua, Ji Zhong, Xing Da, Targeted Fe-filled carbon nanotube as a multifunctional contrast agent for thermoacoustic and magnetic resonance imaging of tumor in living mice, *Nanomedicine: Nanotechnology, Biology, and Medicine* (2015), doi: 10.1016/j.nano.2015.08.008

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.

ACCEPTED MANUSCRIPT

Targeted Fe-filled Carbon Nanotube as a Multifunctional Contrast Agent for Thermoacoustic and Magnetic Resonance Imaging of tumor in living mice

Wenzheng Ding^a, Cunguang Lou^a, Jieshan Qiu, PhD^b, Zongbin Zhao, PhD^b, Quan Zhou, MD^c, Minjie Liang^c, Sihua Yang, PhD^a, Zhong Ji^a, and Da Xing, PhD^{*,a}

^aMOE Key Laboratory of Laser Life Science & Institute of Laser Life Science, College of Biophotonics, South China Normal University, Guangzhou 510631, China.

^bCarbon Research Laboratory, School of Chemical Engineering, Center for Nano Materials and Science, State Key Lab of Fine Chemicals, Dalian University of Technology, Dalian 116012, China

^cMedical Imaging Center, First Affiliated Hospital of Jinan University, Guangzhou 510630, China

*Correspondence to: Da Xing, MOE Key Laboratory of Laser Life Science & Institute of Laser Life Science, College of Biophotonics, South China Normal University, Guangzhou 510631, China.

E-mail addresses: xingda@scnu.edu.cn

This research is supported by the National Basic Research Program of China (2011CB910402), the National Natural Science Foundation of China (81127004, 61361160414, 61331001, 11304103), the National High Technology Research and Development Program of China (2015AA020901), the Science and Technology Planning Project of Guangdong Province, China (2013B090500122), the Guangdong Natural Science Foundation (S2013020012646 and S2013040016419), and the Pearl River S&T Nova Program of Guangzhou (2014J2200028).

Abstract: 150 words, Manuscript: 4481 words, References: 38; Figures: 8; Tables: 1

Download English Version:

https://daneshyari.com/en/article/10435964

Download Persian Version:

https://daneshyari.com/article/10435964

<u>Daneshyari.com</u>