

Accepted Manuscript

Near infrared-emitting persistent luminescent nanoparticles for Hepatocellular Carcinoma imaging and luminescence-guided surgery

Ting Ai, Wenting Shang, Hao Yan, Chaoting Zeng, Kun Wang, Yuan Gao, Tianpei Guan, Chihua Fang, Jie Tian



PII: S0142-9612(18)30045-0

DOI: [10.1016/j.biomaterials.2018.01.031](https://doi.org/10.1016/j.biomaterials.2018.01.031)

Reference: JBMT 18446

To appear in: *Biomaterials*

Received Date: 6 November 2017

Revised Date: 19 January 2018

Accepted Date: 20 January 2018

Please cite this article as: Ai T, Shang W, Yan H, Zeng C, Wang K, Gao Y, Guan T, Fang C, Tian J, Near infrared-emitting persistent luminescent nanoparticles for Hepatocellular Carcinoma imaging and luminescence-guided surgery, *Biomaterials* (2018), doi: 10.1016/j.biomaterials.2018.01.031.

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.

Near Infrared-emitting Persistent Luminescent Nanoparticles for Hepatocellular Carcinoma Imaging and Luminescence-Guided Surgery

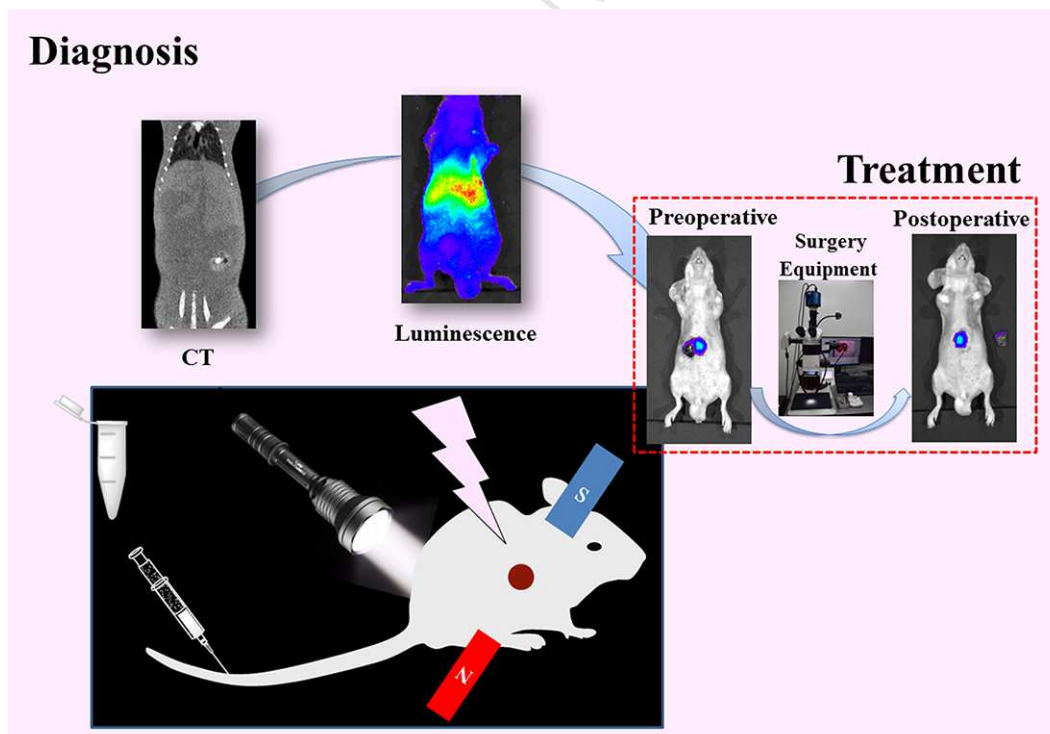
Ting Ai^{1,2,4†}, Wenting Shang^{2†}, Hao Yan², Chaoting Zeng², Kun Wang^{2,3}, Yuan Gao²,
Tianpei Guan^{1,2,4}, Chihua Fang^{1,4*}, and Jie Tian^{2,3*}

¹Department of Hepatobiliary Surgery, Zhujiang Hospital, Southern Medical University, Guangzhou 510280, China;

²CAS Key Laboratory of Molecular Imaging, the State Key Laboratory of Management and control for Complex Systems, Institute of Automation, Chinese Academy of Sciences, Beijing 100190, China;

³ University of Chinese Academy of Sciences, Beijing, 100080, China.

⁴Guang dong Provincial Clinical and Engineering Center of Digital Medicine, Guangzhou 510280, China.



The scheme of ZnGa₂O₄Cr_{0.004} (ZGC) used for Hepatocellular carcinoma (HCC) multi-modal diagnosis and treatment, which provided attractive synergistic advantages for biomedical applications in the future.

Download English Version:

<https://daneshyari.com/en/article/6484551>

Download Persian Version:

<https://daneshyari.com/article/6484551>

[Daneshyari.com](https://daneshyari.com)