# 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

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.

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

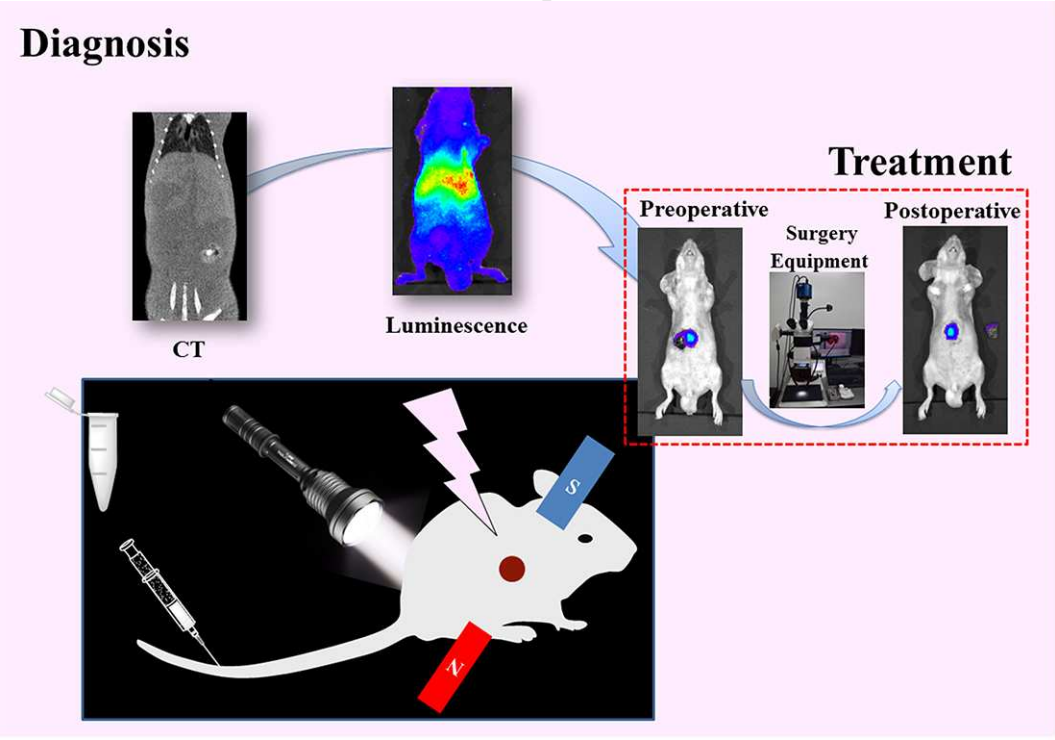
Ting Ai[1,2,4†], Wenting Shang[2†],Hao Yan[2], Chaoting Zeng[2], Kun Wang[2,3], Yuan Gao[2], Tianpei Guan[1,2,4], Chihua Fang[1,4*], and Jie Tian[2,3*]

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

[2]CAS 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.

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




The scheme of $ZnGa_2O_4Cr0.00_4$ (ZGC) used for Hepatocellular carcinoma (HCC) multi-modal diagnosis and treatment, which provided attractive synergistic advantages for biomedical applications in the future.