Electronic Supplementary Material (ESI) for Journal of Materials Chemistry B. This journal is © The Royal Society of Chemistry 2021

Supporting Information for

Intravital NIR-II Three-Dimensional Photoacoustic Imaging of Biomineralized Copper

Sulfide Nanoprobes

Hui-Chao Zhou^{1,‡}, Jie Ren^{1,‡}, Yuejun Lin¹, Duyang Gao², Dehong Hu², Tinghui Yin¹, Chen

Qiu¹, Xiaoyan Miao¹, Chengbo Liu³, Xin Liu², Hairong Zheng², Rongqin Zheng^{1,*}, Zonghai

Sheng^{2,*}

¹ Department of Ultrasound, Laboratory of Novel Optoacoustic/Ultrasonic imaging,

Guangdong Key Laboratory of Liver Disease Research, The Third Affiliated Hospital,

Sun Yat-sen University, Guangzhou, 510630, P. R. China.

² Paul C. Lauterbur Research Center for Biomedical Imaging, Key Laboratory for

Magnetic Resonance and Multimodality Imaging of Guangdong Province, Shenzhen

Key Laboratory of Ultrasound Imaging and Therapy, CAS key laboratory of health

informatics, Institute of Biomedical and Health Engineering, Shenzhen Institute of

Advanced Technology, Chinese Academy of Sciences, Shenzhen, 518055, P. R. China.

³ Research Laboratory for Biomedical Optics and Molecular Imaging, CAS Key

Laboratory of Health Informatics, Shenzhen Institute of Advanced Technology,

Chinese Academy of Sciences, Shenzhen, 518055, P. R. China.

[‡] These authors contributed equally to this work.

* Corresponding authors.

Email: zh.sheng@siat.ac.cn (Zonghai Sheng); zhengrq@mail.sysu.edu.cn (Rongqin

Zheng)

Supplementary Figures

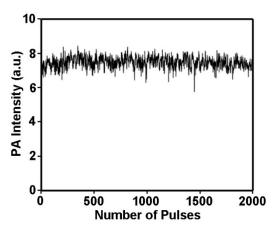


Fig. S1 The photostability of CuS NPs after exposure to 2000 laser pulses.

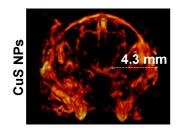


Fig. S2 Corresponding PA imaging of the mouse head vasculature post-CuS NP administration in Fig. 4c.

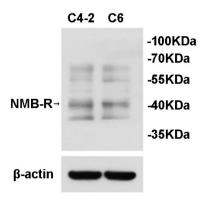


Fig. S3 Expression of NMB-R in C4-2 and C6 cell lines by western blotting analysis.