

Refereed Archival Journal Publications

1. Zhongya Qin, Zhentao She, Congping Chen, Wanjie Wu, Jackie K.Y. Lau, Nancy Y. Ip and Jianan Y. Qu, "Deep tissue multi-photon imaging using adaptive optics with direct focus sensing and shaping", *Nature Biotechnology* (2022). <https://doi.org/10.1038/s41587-022-01343-w>
2. Yue Wang, Min Liu, Qixin Wei, Wanjie Wu, Yanping He, Jiayang Gao, Renjie Zhou, Liwen Jiang, Jianan Qu, Jiang Xia (2022). "Phase - Separated Multienzyme Compartmentalization for Terpene Biosynthesis in a Prokaryote". *Angewandte Chemie International Edition*, e202203909, <https://doi.org/10.1002/anie.202203909> (2022).
3. Wanjie Wu, Sicong He, Junqiang Wu, Congping Chen, Xuesong Li, Kai Liu and Jianan Y. Qu, " Long-term in vivo imaging of mouse spinal cord through an optically cleared intervertebral window", *Nature Communications* , V. 13, 1959 (2022). <https://doi.org/10.1038/s41467-022-29496-x>
4. Wanjie Wu, Xuesong Li., Janan Qu, and Sicong He, "in vivo Imaging of Biological Tissues with Combined Two-Photon Fluorescence and Stimulated Raman Scattering Microscopy", *J. Vis. Exp. (JoVE)* (178), e63411, <https://dx.doi.org/10.3791/63411> (2021)
5. Congping Chen, Zhentao She, Peng Tang, Zhongya Qin, Jufang He and JiananY.Qu, "Study of neurovascular coupling by using mesoscopic and microscopic imaging", *iScience*, V. 24, 10, 22 October 2021, 103176 <https://doi.org/10.1016/j.isci.2021.103176>
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7. Congping Chen, Zhongya Qin, Sicong He, Shaojun Liu, Shun-Fat Lau, Wanjie Wu, Dan Zhu, Nancy Y. Ip and Jianan Y. Qu, "High-resolution two-photon transcranial imaging of brain using direct wavefront sensing", *Photonics Research*, Vol. 9, Issue 6, pp. 1144-1156 (2021) <https://doi.org/10.1364/PRJ.420220>
8. Ye Wang, Wing-Yu Fu, Kit Cheung, Kwok-Wang Hung, Congping Chen, Hongyan Geng, Wing-Ho Yung, Jianan Y. Qu, Amy K. Y. Fu and Nancy Y. Ip, "Astrocyte-secreted IL-33 mediates homeostatic synaptic plasticity in the adult hippocampus", *Proceedings of the National Academy of Sciences of the United States of America*, V.118, (2021), <https://doi.org/10.1073/pnas.2020810118>
9. Zhongya Qin, Congping Chen, Sicong He*, Ye Wang, Kam Fai Tam, Nancy Y. Ip and Jianan Y. Qu, "Adaptive optics two-photon endomicroscopy enables deep brain imaging at synaptic resolution over large volumes", *Science Advances*, 30 Sep 2020: Vol. 6, no. 40, eabc6521 DOI: 10.1126/sciadv.abc6521
10. Sicong He*, Jin Xu, Jianan Y.Qu and Zilong Wen, "Lightening the way of hematopoiesis: Infrared laser-mediated lineage tracing with high spatial-temporal resolution", *Experimental Hematology*, V, 3-7 (2020)
11. Miao Liu, Sicong He*, Lixin Cheng, Jianan Qu and Jiang Xia, "Phase-Separated Multienzyme Biosynthesis", *Biomacromolecules* V.21, 6, 2391–2399 (2020)
12. Zhongya Qin , Sicong He*, Chao Yang, Jasmine Sum-Yee Yung, Congping Chen, Christopher Kai-Shun Leung, Kai Liu and Jianan Y. Qu, "Adaptive optics two-photon microscopy enables near-diffraction-limited and functional retinal imaging in vivo", *Light: Science & Applications*, (2020)9:79, <https://doi.org/10.1038/s41377-020-0317-9> PDF
13. Shun-Fat Lau, Congping Chen, Wing-Yu Fu, Jianan Y. Qu, Tom H. Cheung, Amy K.Y. Fu, Nancy Y. Ip, "IL-33-PU.1 Transcriptome Reprogramming Drives Functional State Transition and Clearance Activity of Microglia in Alzheimer's Disease", *Cell Reports*, V.31, 107530 (2020)
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15. Sicong He*, Xiuqing Wei, Zhongya Qin, Congping Chen, Zhenguo Wu and Jianan Y. Qu, "In vivo study of metabolic dynamics and heterogeneity in brown and beige fat by label-free multiphoton redox and fluorescence lifetime microscopy", *Journal of Biophotonics*, 2019;e201960057. <https://doi.org/10.1002/jbio.201960057>
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