

Refereed Archival Journal Publications

1. Yingzhu He, Youshan Heng, Zhongya Qin, Xiuqing Wei, Zhenguo Wu, Jianan Qu, "Intravital microscopy of satellite cell dynamics and their interaction with myeloid cells during skeletal muscle regeneration", *Science Advances* (2023). <https://doi.org/10.1126/sciadv.adi1891>
2. Min Liu, Chunjian Wu, Rui Wang, Jiaming Qiu, Zhentao SHE, Jianan Qu, Jiang Xia, "Modulating Liquid-Liquid Phase Separation of Nck Adaptor Protein against Enteropathogenic Escherichia coli Infection", *ACS Cent. Sci.*, 9, 12, 2358-2368 (2023). <https://doi.org/10.1021/acscentsci.3c01068>
3. Ao Zhang, Jingao Lu, Shachuan Feng, Huapeng Yu, Tao Yu, Shizheng Zhao, Kemin Chen, Zhibin Huang, Jin Xu, Jianan Y. Qu, Zilong Wen, "Fli1 acts in parallel with Pu.1 to control macrophage and neutrophil fate in zebrafish", *Journal of Genetics and Genomics*, (2023). <https://doi.org/10.1016/j.jgg.2023.11.001>
4. Wanjie Wu, Sicong He, Yujun Chen, Congping Chen, Yiming Fu, Kai Liu, Jianan Y. Qu, "Minimally invasive microglial and neuronal imaging in mouse spinal cord dorsal horn (Invited paper)", *IEEE Journal of Selected Topics in Quantum Electronics* (2023). <https://doi.org/10.1109/JSTQE.2022.3229705>
5. Xiao Li, Ling He, Xiaohan Hu, Fengwen Huang, Xue Wang, Mengying Chen, Ezra Ginn Yoon, Stephen Temitayo Bello, Tao Chen, Xi Chen, Peng Tang, Congping Chen, Jianan Qu, Jufang He, "Interhemispheric cortical long-term potentiation in the auditory cortex requires heterosynaptic activation of entorhinal projection", *iScience*, 26, 4, (2023). <https://doi.org/10.1016/j.isci.2023.106542>
6. 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>
7. Yue Wang, Min Liu, Qixin Wei, Wanjie Wu, Yanping He, Jiayang Gao, Renjie Zhou, Liwen Jiang, Jianan Qu, Jiang Xia, "Phase - Separated Multienzyme Compartmentalization for Terpene Biosynthesis in a Prokaryote". *Angewandte Chemie International Edition*, e202203909, <https://doi.org/10.1002/anie.202203909> (2022).
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9. Wanjie Wu, Xuesong Li., Jianan 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)
10. Congping Chen, Zhentao She, Peng Tang, Zhongya Qin, Jufang He and Jianan Y. 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>
11. Lidan Zeng, Xuesong Li, Christopher B. Preusch, Gary J. He, Ningyi Xu, Tom H. Cheung, Jianan Qu and Ho Yi Mak, "Nuclear receptors NHR-49 and NHR-79 promote peroxisome proliferation to compensate for aldehyde dehydrogenase deficiency in *C. elegans*", *PLoS Genetics*, 17(7): e1009635. (2021) <https://doi.org/10.1371/journal.pgen.1009635>
12. 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>
13. 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>
14. 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
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16. Miao Liu, Sicong He*, Lixin Cheng, Jianan Qu and Jiang Xia, "Phase-Separated Multienzyme Biosynthesis", *Biomacromolecules* V.21, 6, 2391–2399 (2020)
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19. Sicong He*, Ye Tian, Shachuan Feng, Yi Wu, Xinwei Shen, Kani Chen, Yingzhu He, Qiqi Sun, Xuesong Li, Jin Xu, Zilong Wen, Jianan Y Qu, "In vivo single-cell lineage tracing in zebrafish using high-resolution infrared laser-mediated gene induction microscopy", *eLife* 2020;9:e52024, DOI: 10.7554/eLife.52024
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