Current Research Team (Cheng/Yang labs)

12/22/2022

Ji-Xin Cheng (Principal Investigator)
Chen Yang (Principal Investigator)
Yvonne Cancino (Lab Administrator)
Rachel Agnir (Grant administrator)

- Vibronix
- Pulsethera
- Photothermal
- Axorus

Coherent Raman

Lin, Haonan
Wang, Le
Ge, Xiaowei
Ni, Hongli
Zhang, Jing
Zhu, Yifan
Ding, Guangrui

Ran Cheng
(Yang lab)

IR Photothermal

Xia, Qing
Zong, Haonan
Guo, Zhongyue
Jia, Danchen
Li, Mingsheng
Yin, Jiaze

Neuromodulation

Li, Yueming
Marar, Carolyn
Hyman, Mack
Yu, Franny

(Chen Yang lab)
Chen, Guo
Zheng, Nan
Du, Zhiyi
Li, Wenwen

Mark (MS)
Maijie (MS)

Biology

He, Hongjian
Zhang, Meng
Tang, Yuying
Chinmayee
Teng, Xinyan
Chen, Fukai
Jusuf, Sebastian

Chen, Jiyang
(MS)

PA imaging

Yuan, Yuhao
Li, Mingsheng
Ni, Hongli

New Grants received in 2022

1. R01 EB032391-01, computational chemical imaging, $2,379,816, 4/1/2022 to 12/31/2025
2. NIH SBIR Phase 2, Fluorescence enhanced-MIP, GM142346 $300,000
3. Daylight Solutions, IR-AIMS, MIRCAT + $100,000, 2022 to 2023
4. R01 supplement from Brandeis University $150,000
5. Jesse Brown VA Medical Center, $406,812 (direct cost) Jan 2023 - 2026
6. R21 EY034275 MW stimulation, $660,000
7. Army Bioelectronics $700,000, PI: Chen Yang
8. Ultrasound Foundation $80,000 PI: Chen Yang
9. Axorus seed fund $10,000 PI: Chen Yang
10. BU ignition award $75,000, PI: Chen Yang

Career Advancement in 2022

1. Dr. Peng Lin, graduated in June 2022. Scientist at Apple
2. Dr. Linli Shi, Graduated in Aug 2022. Postdoc at FDA
3. Dr. Ying Jiang, joined MIT as postdoc, Jan 1, 2022
4. Dr. Jian Zhao, moved to MIT for his second postdoc, Sept 1, 2022
5. Dr. Guangju Zhang, found an industry job at New York
6. Dr. Ji-Xin Cheng, guest professor at University of Vienna

New postdoc fellows in 2023

Dr. Franny Yu, postdoc in neuromodulation
Dr. Jianpeng Ao, postdoc in chemical imaging

Peer Reviewed Articles published in 2022 (total 16)

Reviews

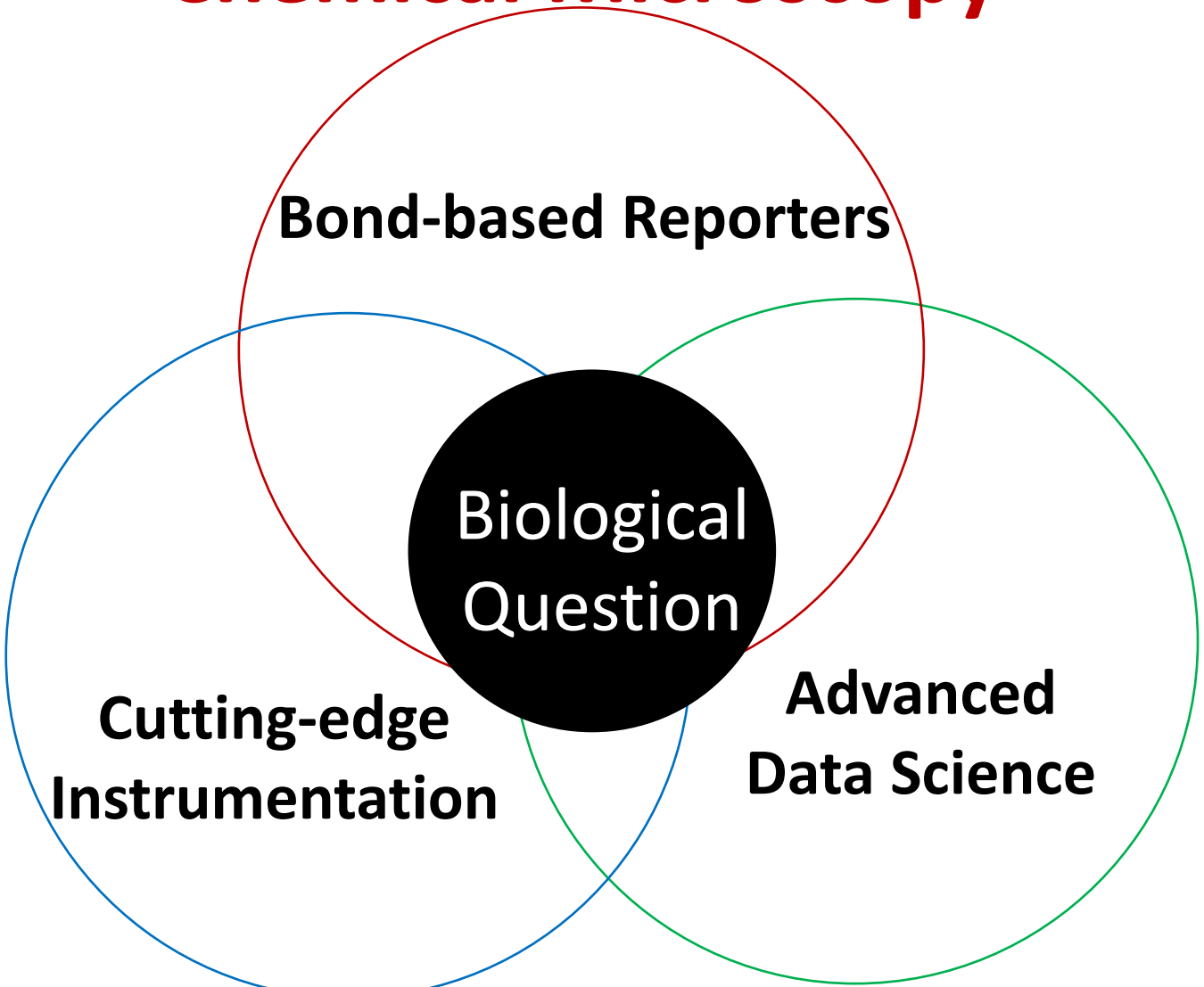
J Phys Chem B (feature article), Qing Xia et al.
Neurophotonics, Linli Shi et al.

Original Articles

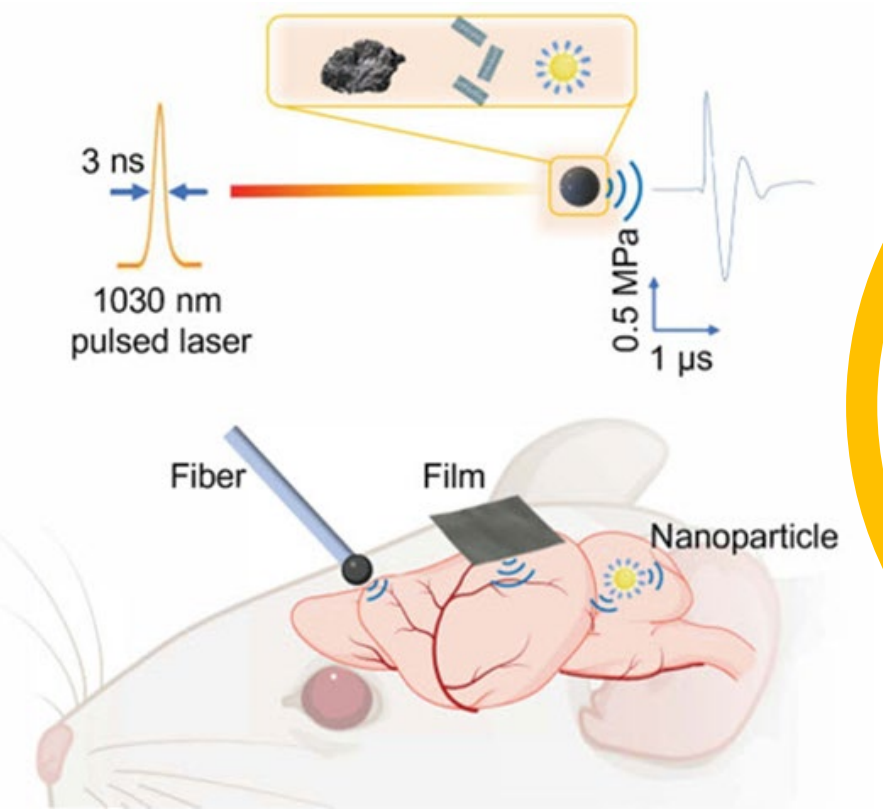
Nature Communications, Yuying Tan et al.
Nature Communications, Jian Zhao et al.
PNAS, Xiaowei Ge et al.
PNAS, Guangyuan Zhao, Yuying et al.
Light Sci & Appl, Yueming Li et al.
Advanced Science, Pu-Ting Don et al.
Advanced Science, Jing Zhang et al.
ACS Photonics, Cheng Zong et al.
Optics Express, Peng Lin et al
Optics Express, Eric Huang et al.
Translational Biophotonics, Yi Zhang et al
JCI insight, Pu-Ting Dong et al.
Photochemistry and Photobiology, Sebastian Jusuf et al
Frontiers in Neurology, Guo Chen et al.

Having Fun besides research ---
Our backet ball team

Research Direction #1
Uncover New Rules of Life via Innovating Advanced Chemical Microscopy



Research Direction #2
Precisely Control Cellular Activity via Manipulating Photons and Waves



Microwave Split Ring perimeter = microwave length