Feng Yang

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EDUCATION

Sichuan University
Sichuan, China
September 2014-June 2018
Degree: Bachelor of Software Engineering
Degree: Bachelor of Biological Science
Department: Life Science
Specialty: Bioinformatics
GPA: 3.4/4.0

Institute of Neuroscience, Chinese academy of sciences
Shanghai, China
September 2018-April 2021
Specialty: Bioinformatics
PhD study

The Chinese University of Hong Kong
Hong Kong, China
August 2021~Now
Degree: PhD
Department: Chemical Pathology
Specialty: Bioinformatics

PUBLICATIONS

1. Xiaona Chen*, **Feng Yang***, Suyang Zhang*, Xiaofan Guo, Jieyu Zhao, Yulong Qiao, Liangqiang He, Yang Li, Qin Zhou, Michael Tim Yun Ong, Chun Kit Kwok, Hao Sun and Huating Wang. “DNA G-quadruplex Profiling Reveals Functional and Mechanistic Role of G-quadruplexes in Skeletal Muscle Stem Cells” **Genome Biology**, under review https://doi.org/10.1101/2025.02.10.637367
2. Jieyu Zhao*, **Feng Yang***, Yuwei Zhang, Huating Wang and Chun Kit Kwok. “TDP-43 binds to RNA G-quadruplex structure and regulates mRNA stability and translation” (**Nucleic Acids Research**, in revision)
3. Yanwang Huang, Shangyi Wang, Qingxiu Wang, Chaowen Zheng, **Feng Yang**, Lei Wei, Xintong Zhou and Zuoren Wang. "Glutamatergic Circuits in the Pedunculopontine Nucleus Modulate Multiple Motor Functions" **Neuroscience Bulletin**, 2024 https://doi.org/10.1007/s12264-024-01314-y

4. Yuwei Zhang, Jieyu Zhao, Xiaona Chen, Yulong Qiao, Jinjin Kang, Xiaofan Guo, **Feng Yang**, Kaixin Lyu, Yiliang Ding, Yu Zhao, Hao Sun, Chun-Kit Kwok and Huating Wang. "DHX36 binding induces RNA structurome remodeling and regulates RNA abundance via m^6A reader YTHDF1" **Nature Communications**, 2024
   https://doi.org/10.1038/s41467-024-54000-y
5. Zhiming He, Xiaona Chen, Li Yuying, **Feng Yang**, Hao Sun and Huating Wang. "Sugt1 loss in skeletal muscle stem cells impairs muscle regeneration and causes premature muscle aging", **Life Medicine**, 2023
   https://doi.org/10.1093/lifemedi/lnad039
6. Suyang Zhang, **Feng Yang**, Yile Huang, Liangqiang He, Yuying Li, Yi Ching Esther Wan, Yingzhe Ding, Kui Ming Chan, Ting Xie, Hao Sun and Huating Wang."ATF3 induction prevents precocious activation of skeletal muscle stem cell by regulating H2B expression" **Nature Communications**, 2023
   https://doi.org/10.1038/s41467-023-40465-w
7. Qiming Lv, Mingchao Yan, Xiangyu Shen, Jing Wu1, Wenwen Yu, Shengyao Yan, **Feng Yang**, Kristina Zeljic, Yuequan Shi, Zuofu Zhou, Longbao Lv, Xintian Hu, Ravi Menon and Zheng Wang."Normative Analysis of Individual Brain Differences Based on a Population MRI-Based Atlas of Cynomolgus Macaques" **Cerebral Cortex**, 2021
   https://doi.org/10.1093/cercor/bhaa229

Conference Presentation

RNA Society, 2023, Singapore

Poster title: TDP-43 promotes enhancer-promoter loop formation and interaction via binding and stabilizing DNA G-quadruplexes

8th National Symposium on Skeletal Muscle Biology, 2023, Guangzhou, China

Poster title: TDP-43 promotes enhancer-promoter loop formation and interaction via binding and stabilizing DNA G-quadruplexes

G4 webinar, 2023

Title: TDP-43 promotes enhancer-promoter loop formation and interaction via binding and stabilizing DNA G-quadruplexes

Computational Skills

- **Programming:** Python, R, Perl, C, Bash
- **Analyze sequencing data:** Bulk RNA-seq, Single cell RNA-seq, ChIP-seq, CUT&RUN, CUT&Tag, Hi-C, Micro-C, SHALiPE-seq, rG4-seq, RBNS

Grant Writing

- **Assisted in Hong Kong GRF 2022 application:** Functional and Mechanistic Role of G-quadruplexes in Skeletal Muscle Stem Cells
- **Assisted in Hong Kong GRF 2023 application**: TDP43 promotes enhancer-promoter loop formation and interaction via binding and stabilizing DNA G-quadruplexes
- **Assisted in Hong Kong GRF 2024 application:** Functional study of JunB in skeletal muscle regeneration--a tale of muscle stem cell niche crosstalk