Yu-hao He

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EDUCATION

Charité – Universitätsmedizin Berlin, Berlin, Germany
PhD in Cancer Immunology Since Feb. 2023
Laboratory of Systems Cancer Immunology led by Benjamin Ostendorf, MD PhD
• DAAD Graduate School Scholarship Programm (GSSP) Scholarships
• Berlin School of Integrative Oncology (BSIO) Scholarships

Southern University of Science and Technology, Shenzhen, China
MSc in Biology, GPA 3.95/4, Rank 1/39 Sept. 2018 - Oct. 2020
Shenzhen Key Laboratory of Gene Regulation and Systems Biology

University of British Columbia, Vancouver, Canada
Medical School Summer Program Jul. - Aug. 2017
• Package: Genetics of Human Diseases, Public Health

Southern University of Science and Technology, Shenzhen, China
BSc of Biological Science, GPA: 3.62/4 Sept. 2014 - Jun. 2018
Laboratory of Systems RNA Biology led by Wei Chen, Chair Professor

RESEARCH EXPERIENCE

The role of endothelial cells in modulating anti-tumor immunity
Systems Cancer Immunology led by Benjamin Ostendorf, MD PhD Since 2023

Pooled CRISPR Screen Identifies the P-Body as a Key Regulatory Node of Cancer EMT
Systems Cancer Biology led by Prof. Wei Chen and Prof. Liang Fang 2020 - 2023

CRISPR-iPAS: a novel dCAS13-based method for alternative polyadenylation interference
Gene Regulation and Systems Biology led by Prof. Wei Chen, Chair 2018 - 2021

Systematical screen of *cis*-elements and *trans*-factors regulating alternative polyadenylation in mammalian cells
Gene Regulation and Systems Biology led by Prof. Wei Chen, Chair 2016 - 2020

Synthetic and quantitative study on mechanosensitive channel Piezo1, Shenzhen, China
Systems, Synthetic, and Quantitative Biology led by Prof. Wei Huang 2014 - 2016
• Collaboration with the Department of Biomedical Engineering and the Department of Materials Science to fabricate microfluidic chips.

PUBLICATION

Original articles

Wang W#, Huang H#, Jiang H, Tian C, Tang Y, Gan D, Wen X, Song Z, **He Y**, Ou X, Fang L* (2022) A cross-tissue investigation of molecular targets and physiological functions of Nsun6 using knockout mouse. ***International Journal of Molecular Sciences***. 23(12), 6584; doi: 10.3390/ijms23126584

Tian S#, Zhang B#, **He Y**, Yi H, Li Y, Zou X, Zhao Y, Fang L, Hu Y, Chen W* (2021) CRISPR-iPAS: a novel dCAS13-based method for alternative polyadenylation interference. ***Nucleic Acids Research***. gkac108. doi: 10.1093/nar/gkac108

Li Y#, Schaefke B#, Zou X, Zhang M, Heyd F, Sun W, Zhang B, Li G, Liang W, **He Y**, Zhou J, Li Y, Fang L, Hu Y, Chen W* (2020) Pan-tissue analysis of allelic alternative polyadenylation suggests widespread functional regulation. ***Molecular Systems Biology***. 16(4):e9367. doi: 10.15252/msb.20199367

Reviews, chapters, and comments

Yi H#, **He Y#**, Zhu Q, Fang L* (2022) RUNX proteins as epigenetic modulators in cancer. ***Cells***. 11(22):3687. doi: 10.3390/cells11223687 (#equal contribution)

COMPETITION

International Genetically Engineered Machine competition(iGEM)
MIT, Boston, USA, 2016

HONORS AND AWARDS

• Deutscher Akademischer Austauschdienst Graduate School Scholarship Program (DAAD-GSSP, German Academic Exchange Service) Berlin, Germany, 2023-2026
• Berlin School of Integrative Oncology Doctoral Scholarship (BSIO, Charité – Universitätsmedizin Berlin) Berlin, Germany, 2023-2026
• SUSTech Postgraduate Excellence Award Shenzhen, China, 2020
• SUSTech Postgraduate Full Scholarships Shenzhen, China, 2019-2020
• SUSTech Study Abroad Program Scholarships Shenzhen, China, 2017
• SUSTech Bachelor Full Scholarships Shenzhen, China, 2015-2018
• Silver Metal for international Genetically Engineered Machine Competition (iGEM) Boston, USA, 2016
• Sun Yat-sen University Excellent Presentation Award for Asia-Pacific international Genetically Engineered Machine Competition conference Guangzhou, China, 2016
• National Cheng Kung University Excellent Presentation Award for Conference of China iGEMer Community Taiwan, 2016

Berlin, April 18, 2023