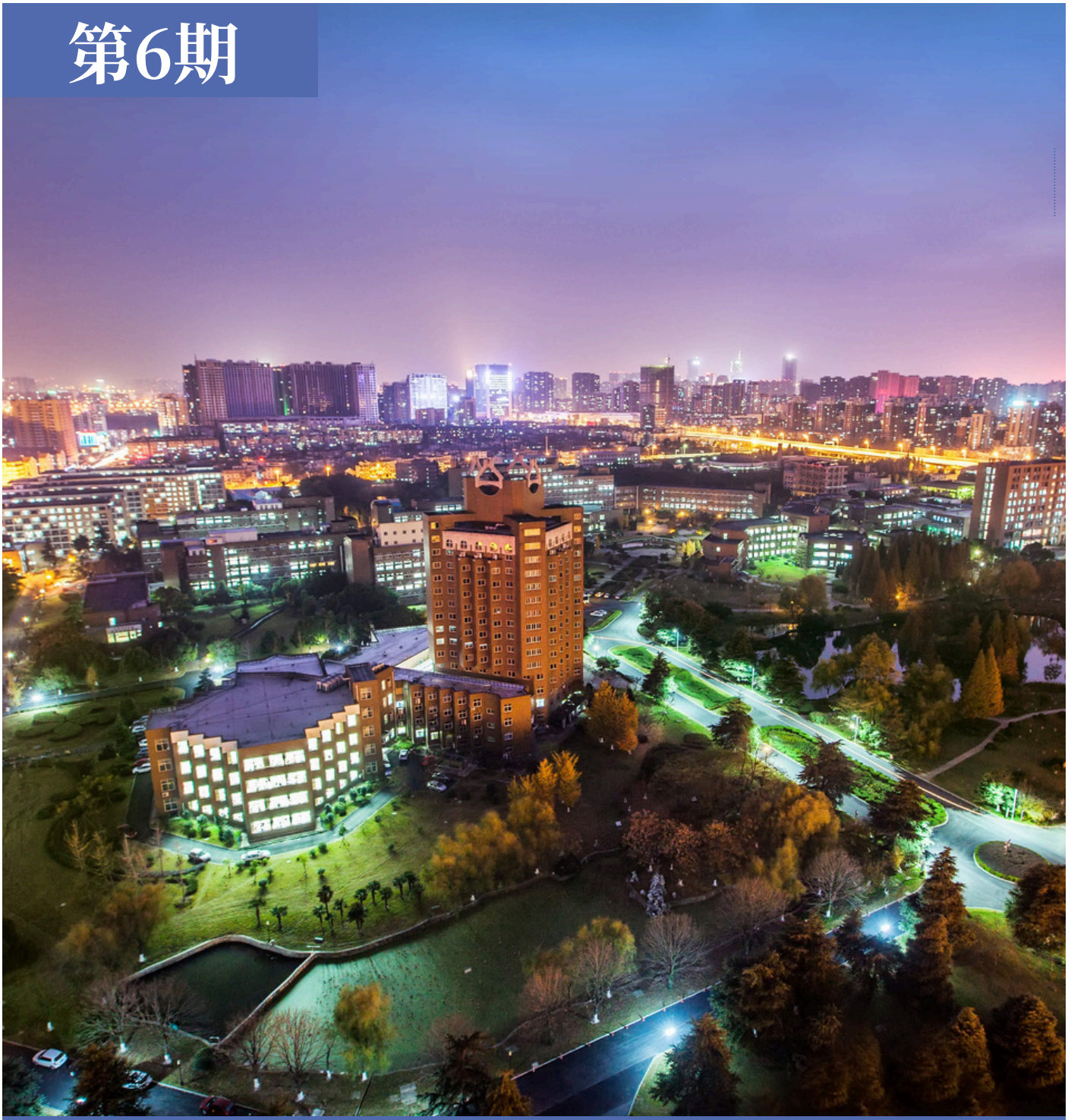
MONTHLY REPORT

2025.03 University of Science and Technology of China

第6期



Abstract ◎ Research ◎ Activity ◎ Alumni

RESEARCH

Feb.17

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USTCer Wins Best Paper Award at SMI 2024



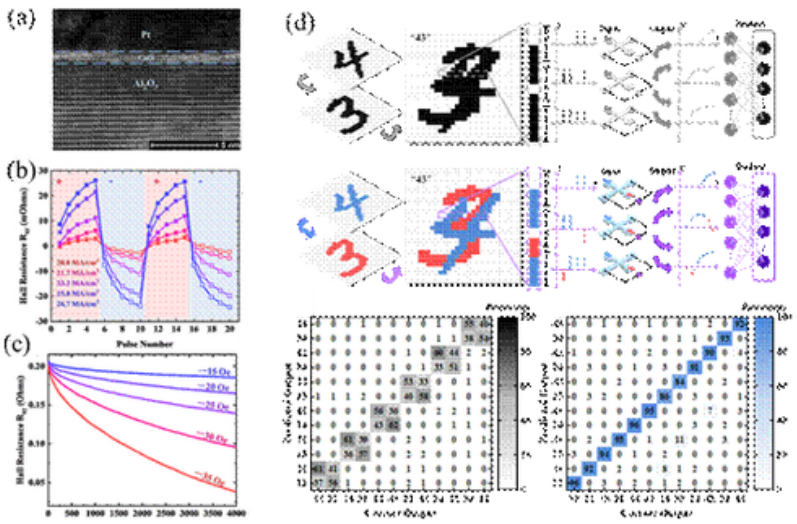
A research paper by LU Yukun, a doctoral student from the School of Mathematical Sciences at the University of Science and Technology of China (USTC), won the Best Paper Award at the Shape Modeling International (SMI 2024) conference held in Detroit, USA in July 2024.

READ MORE

Feb. 19

USTC Develops Antiferromagnetic Neuromorphic Memory

A research team led by Prof. LONG Shibing from the University of Science and Technology of China (USTC) of the Chinese Academy of Sciences (CAS) has, for the first time, made spintronic neuromorphic devices based on CoO/Pt heterostructure. The study was published in ***Nano Letters***.



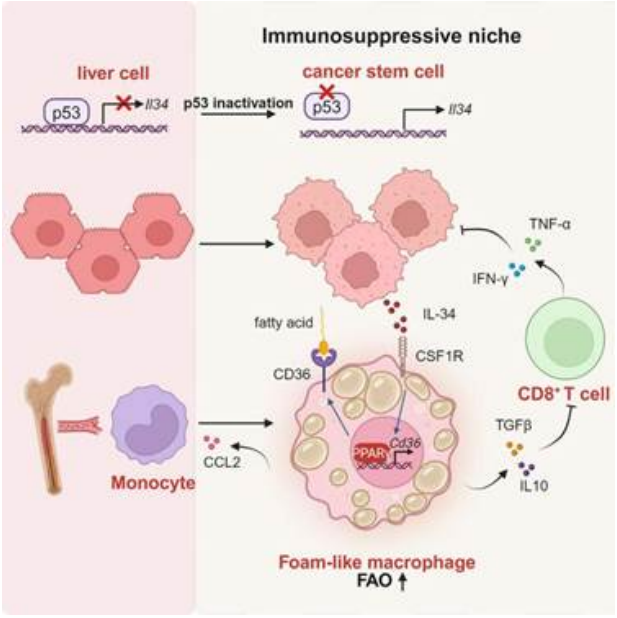
RESEARCH

Feb.26

READ MORE

USTC Unveils How p53 Modulates Tumor Immune Microenvironment

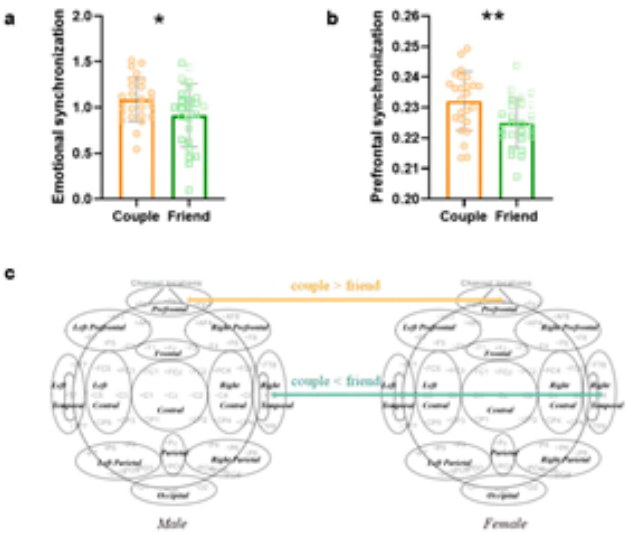
There are tumor suppressor genes in our normal cells to prevent cancer, while the mutation of genes can lead a normal cell to become a cancerous one. Among those genes, TP53 has been identified as the most frequently mutated one that cause human cancers. A research team led by Prof. WEI Haiming from the USTC revealed the role of p53 in modulating the tumor immune microenvironment (TIME). The study was published on Immunity.



READ MORE

Mar.01

USTC Modulates Emotional Synchronization in Romantic Relationship By Relationship Quality



A research team led by Researcher WEI Zhengde and Prof. ZHANG Xiaochu from the Department of Psychology at USTC studied how emotional synchronization in romantic relationships and close friendships is influenced by the quality. They mainly discovered that romantic couples exhibit greater emotional and prefrontal alpha synchronization compared to close friends, especially when the relationship quality is low. Their findings were published on ***NeuroImage***.

RESEARCH

Mar.02

READ MORE

USTC Breaks Record in Learning With Errors Challenge

A team led by Prof. HU Honggang from the University of Science and Technology of China (USTC) solved a 95-dimensional Learning With Errors (LWE) problem with a relative error of 0.005 at the TU Darmstadt challenge, surpassing the previous record of 90 dimensions set two years ago.

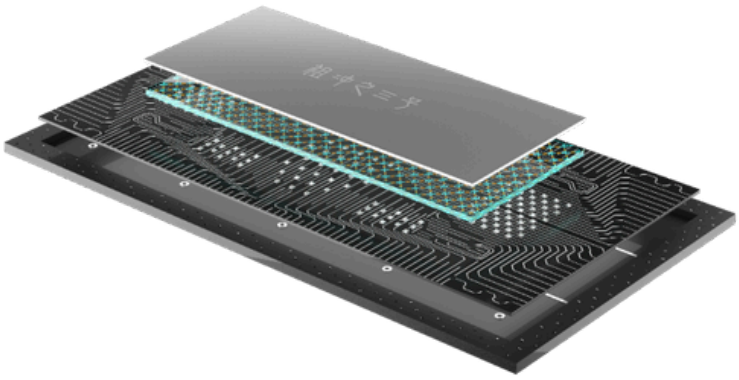
HALL OF FAME

Date	Dimension	Relative error	Contestant	Error norm	Submission
2024-09-22	95	0.005	Jinghui Wang Changhong Xu Honggang Hu Yiming Gao	4269.12	Details

READ MORE

Mar.03

Zuchongzhi-3: A 105-Qubit Superconducting Quantum Processor with 10^{15} times Speedup in Circuit Sampling



The prototype of Zuchongzhi-3 operates at a speed that is 1015 times faster than the fastest supercomputer currently available and one million times faster than the latest results published by Google. This achievement marks a milestone in enhancing the performance of quantum computation, following the success of Zuchongzhi-2. The research finding has been published as the cover article in the international academic journal Physical Review Letters.

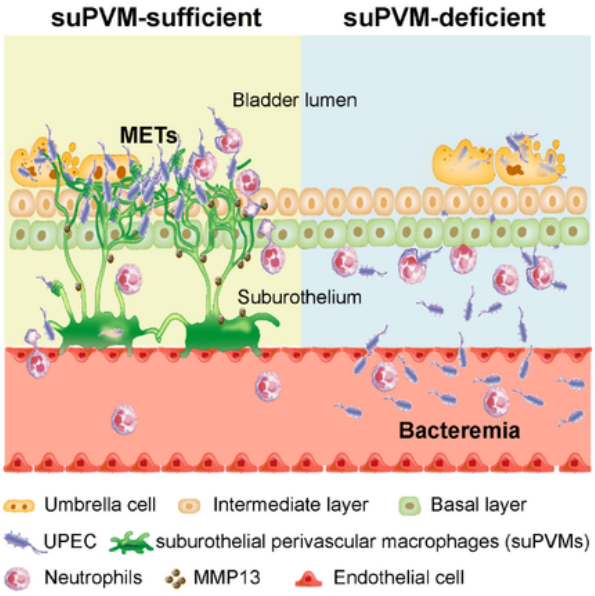
RESEARCH

Mar.10

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USTC Identifies a Bladder-Blood Immune Barrier Mediated by Tissue-Resident Macrophages

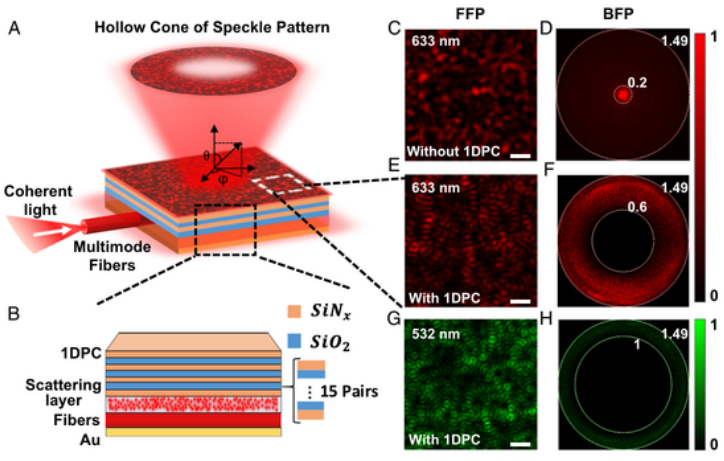
A research team led by Prof. ZENG Zhutian from the University of Science and Technology of China (USTC) identified and named a novel population of bladder-resident macrophages, termed suburothelial perivascular macrophages (suPVMs), which can prevent hematogenous dissemination of uropathogens by releasing macrophage extracellular traps (METs). This finding has been published in Immunity.



READ MORE

Mar.10

USTC Develops Compact Device for Super-Resolution Imaging Beyond the Diffraction Limit



Researchers from the University of Science and Technology of China (USTC) led by Prof. ZHANG Douguo have unveiled a planar optical device that significantly enhances the capabilities of dark-field microscopy, achieving super-resolution imaging beyond the diffraction limit. Their research has been published in the Proceedings of the National Academy of Sciences (PNAS).

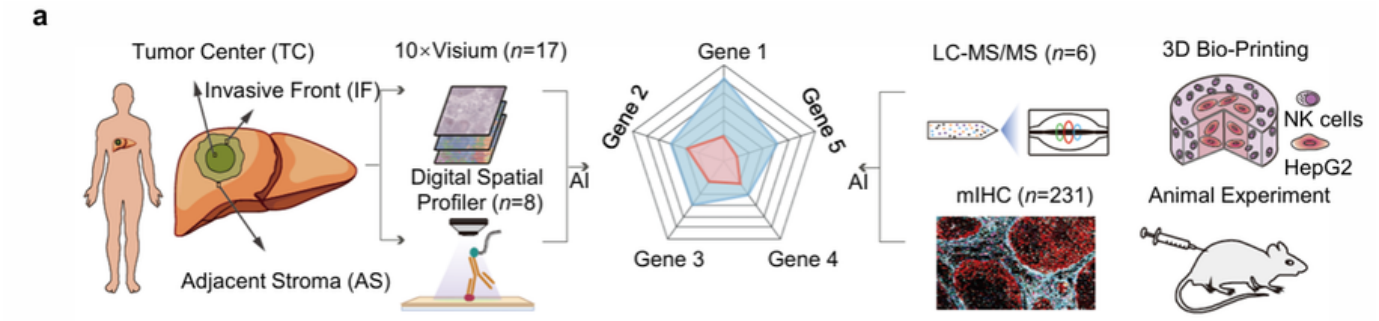
RESEARCH

Mar.13

READ MORE

USTC Develops Spatial Immune-Based Hepatocellular Carcinoma Recurrence Prediction System

A research team led by Prof. SUN Cheng from USTC, in collaboration with researchers from the Agency for Science, Technology and Research and Chinese Academy of Agricultural Sciences, has successfully developed a novel spatial immune-based hepatocellular carcinoma (HCC) recurrence risk prediction platform. This study was published in Nature on March 12, 2025.



READ MORE

Mar.20

USTC Develops Quantum Microsatellite and Achieves Real-Time Quantum Key



A research team from the University of Science and Technology of China (USTC), in collaboration with several research institutions in China and South Africa, has developed the world's first quantum microsatellite and demonstrated real-time quantum key distribution (QKD) between the satellite and multiple compact, mobile ground stations.

ACTIVITY

Mar.07

READ MORE

Flower Arrangement Event





On March 7, our international students joined the Taihu Xincun Community for a delightful flower arrangement event, embracing beauty, culture, and togetherness. Just like every bloom in a bouquet, every woman shines in her own unique way.







ACTIVITY

Mar.15

READ MORE

Five-Step Fist Class







This semester, our Chinese Corner Cultural Sessions are all about Chinese martial arts, bringing international students closer to China’ s rich traditions through hands-on experiences! Last Saturday, students kicked off their martial arts journey with an exciting Five-Step Fist session! They learned fundamental movements, practiced stances, and explored the philosophy behind this ancient art—gaining both skills and a deeper appreciation for Chinese culture.

ACTIVITY

Mar. 22

READ MORE

Plant Printing Workshop



Last week, we welcomed the season by transforming vibrant fans into springtime masterpieces using nature's own palette during our plant printing workshop and celebrated growth, connection, and the beauty of cultural immersion.











ACTIVITY

Mar. 22-23 READ MORE

Cultural Exploration

USTC international students explored the UNESCO World Heritage villages, Xidi and Hongcun, diving into authentic cultural experiences. Among Hui-style architecture with white walls and dark tiles, they decoded symbolic designs of cultural traditions.





They crafted bamboo into a fish lantern and learned Huizhou rubbing techniques to preserve stone inscriptions. During this journey, these global learners witnessed how ancient heritage continues to inspire new generations.





ALUMNI

FAHAD ASMI

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Management

PAKISTAN





I spent eight unforgettable years in Hefei, witnessing USTC’ s remarkable transformation firsthand. As part of the first batch at the Institute of Advanced Technology (IAT), recruited in 2015, I experienced the university’ s unwavering commitment to providing top-tier facilities, even in challenging circumstances. The International Student Office (ISO), under Linda’ s guidance, played a crucial role in supporting us, particularly during the early development of the Foreign Students Association (FSA), where I had the privilege of serving in educational affairs (2016–2017).

ALUMNI

USTC was more than just a university—it was a home where diversity thrived, friendships flourished, and academic excellence was nurtured. My research group felt like a family, providing constant encouragement and support. I owe my growth and confidence to my doctoral supervisor, Prof. Zhou Rongting—to me, a fatherly figure—who continuously pushed me to improve, explore new ideas, and expand my intellectual horizons.





ALUMNI



Before USTC, I completed my master’ s at the University of Leeds (UK), which sparked my passion for research. USTC provided the perfect environment to pursue this passion. After earning my Ph.D. in 2018, I stayed on as a research associate until April 2023. I am now a research officer at Charles Sturt University (Australia), where USTC’ s reputation continues to open doors for me.



ALUMNI

I am deeply grateful to my friends (Fang Keren, Ye Qing, Wang Dong), my countrymates (Azfar,Ahsan, Asim,Ali Hammad, Mazhar, Intikhab, Manzar, Usman Shabbir, and Waleed), and all the members of my research group under the guidance of Prof. Zhou Rongting. Their unwavering support and collaboration made this journey even more meaningful.



Whatever I am today, I owe it to Prof. Zhou, USTC, and the incredible people I met along the way. I am a USTCer—proud, grateful, and forever connected to this remarkable institution.



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WHAT YOU CAN SHARE

including but not limited to

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- LIFE AFTER USTC
- ENTREPRENEURIAL VENTURES
- CROSS-CULTURAL EXPERIENCES
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FORMATS

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