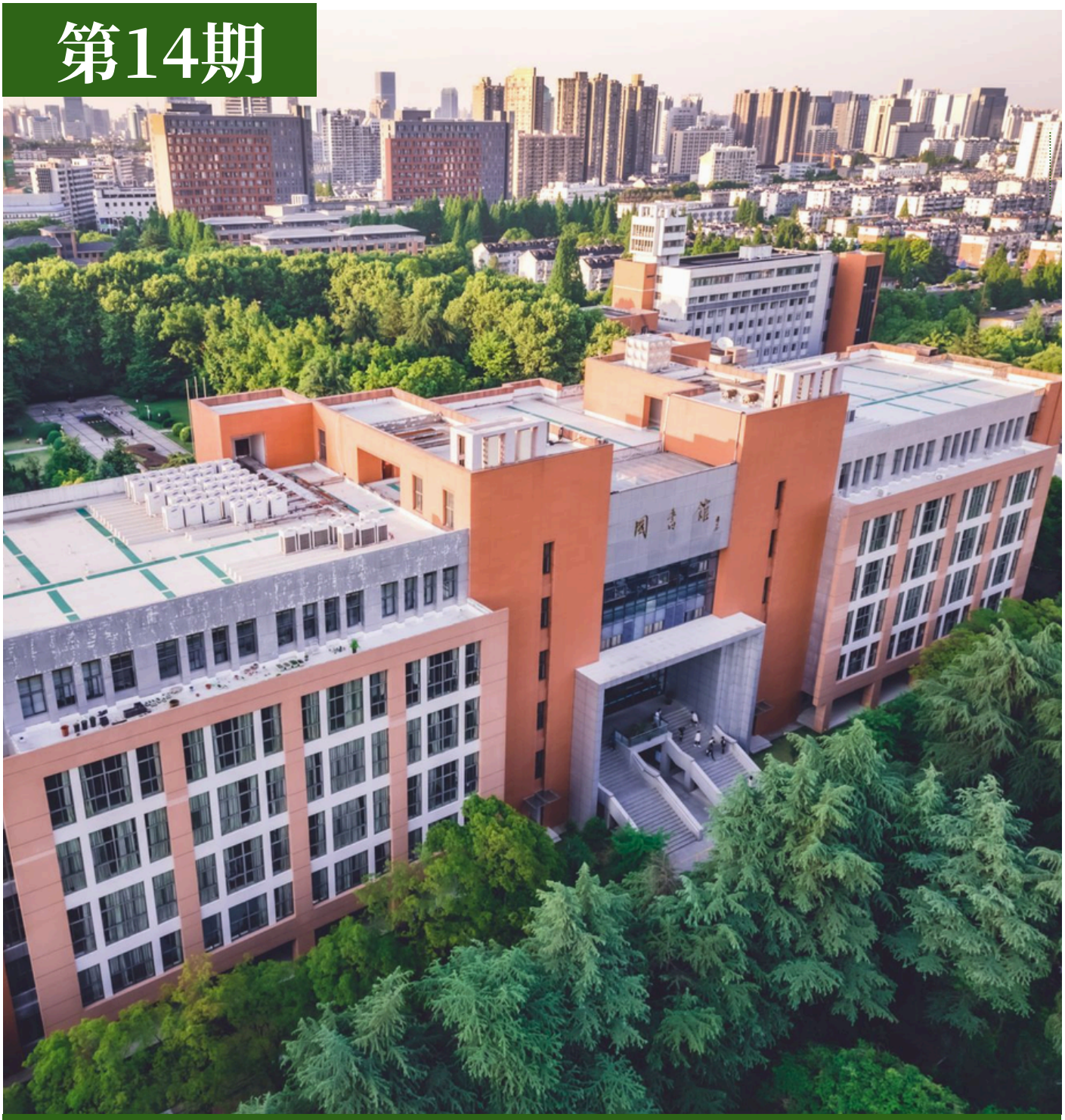
MONTHLY REPORT

2026.02-03 University of Science and Technology of China

第14期



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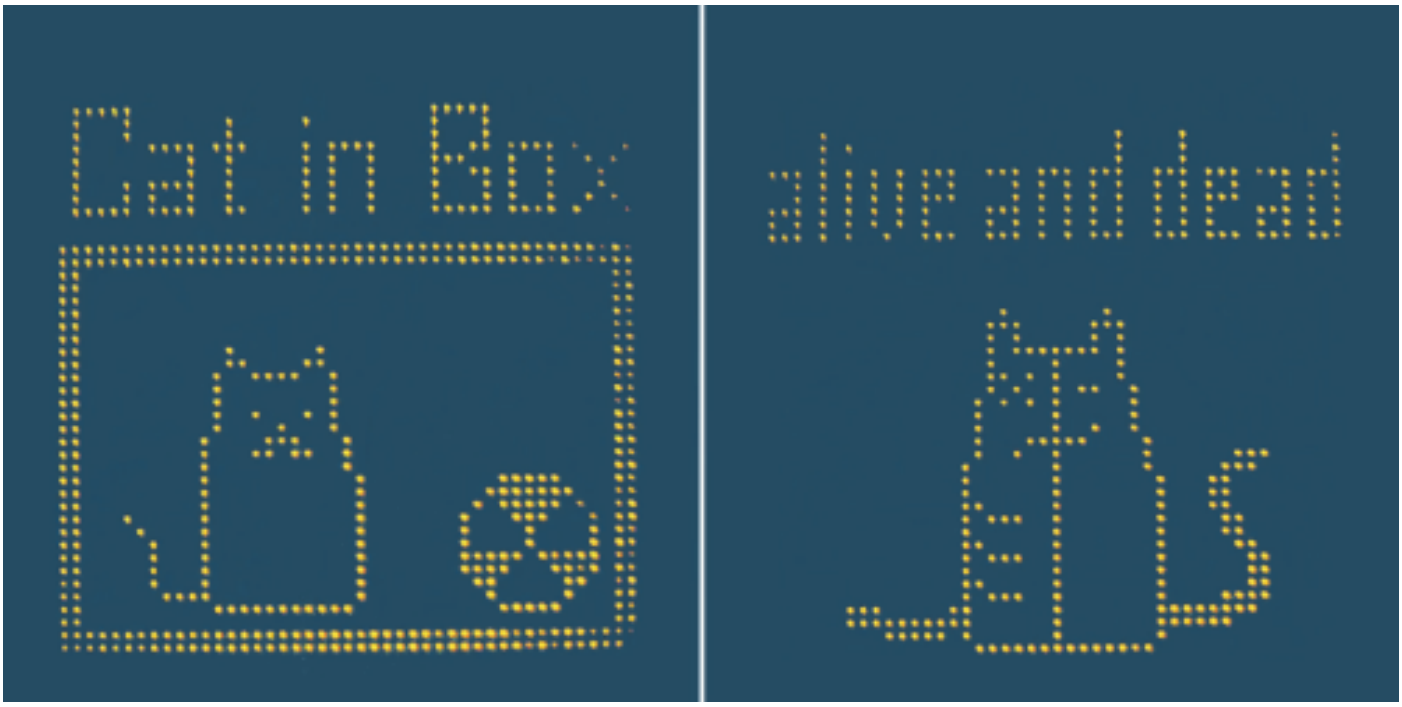
RESEARCH

Jan. 29

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Neutral Atom Quantum Computation Achievement Listed in "Highlights of the Year 2025" in Physics

An experiment on high-speed atom rearrangement for neutral-atom quantum computation, conducted by Pan Jianwei and Lu Chaoyang from the University of Science and Technology of China, together with Zhong Hansen from Shanghai Artificial Intelligence Laboratory and other colleagues, was listed among the top nine advances in 2025 in physics announced by the American Physical Society (APS) on December 15.



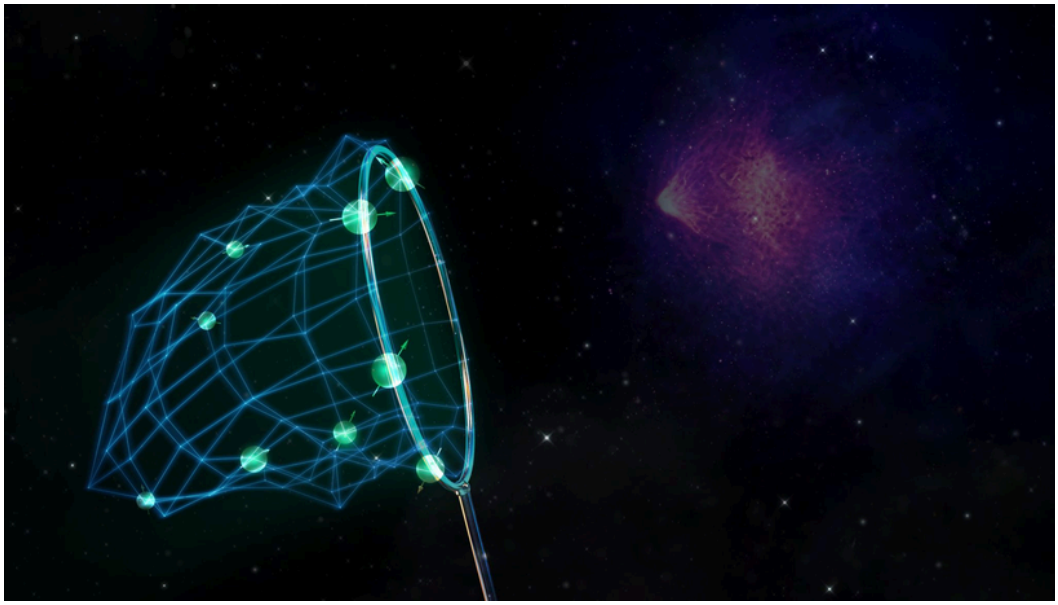
The innovative demonstration not only became the most viewed content on the physics website in 2025, but also highlighted the essential role of high-speed atom rearrangement in future atom-based quantum computers.

RESEARCH

Feb. 02

READ MORE

Researchers Develop a Distributed Intercity Quantum Sensor Network



Recently, scientists from institutions including the University of Science and Technology of China made a fundamental breakthrough in nuclear-spin quantum precision measurement. They developed the first intercity nuclear-spin based quantum sensor network, which experimentally contains the axion topological-defect dark matter and surpasses the astrophysical limits.

Notably, as the first laboratory experiment to surpass astrophysical constraints on axion topological-defect dark matter, the study opens up the possibility of examining previously unexplored parameter space. At the interface of quantum precision measurement and fundamental physics, this breakthrough not only provides a new route to probe topological defect dark matter, but also offers a new direction for searches on broad beyond-Standard Model physics such as axion stars and axion strings.

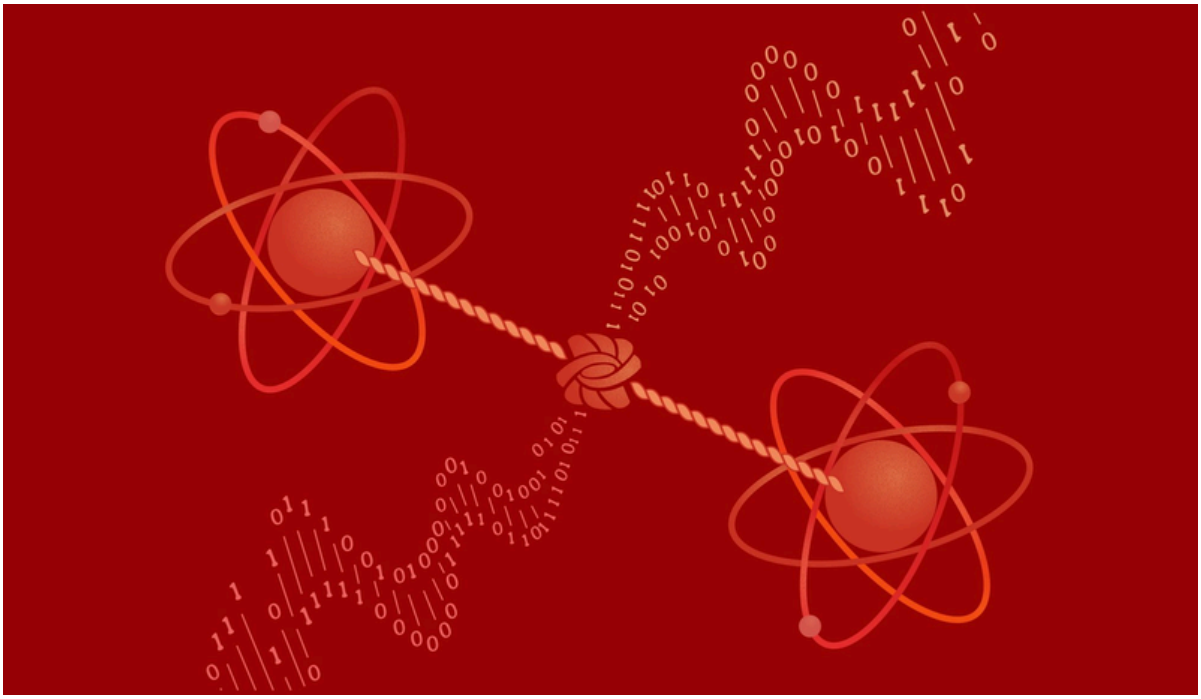
RESEARCH

Feb. 17

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Chinese Researchers Achieve Device-Independent Quantum Key Distribution over 100 km

A team of researchers led by PAN Jianwei, ZHANG Qiang, and BAO Xiaohui from the University of Science and Technology of China (USTC) of the Chinese Academy of Sciences (CAS), along with other colleagues, has, for the first time, provided a critical building block for scalable quantum repeaters, enabling the team to subsequently achieve device-independent quantum key distribution (DI-QKD) over 100 km.



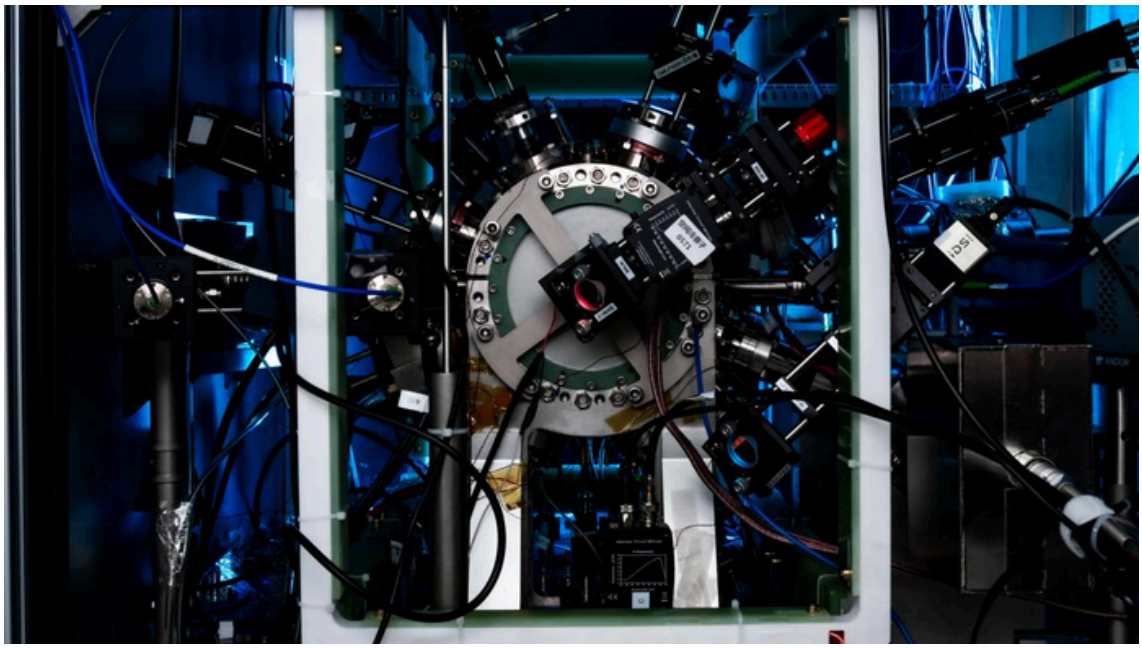
Their findings, which were published in ***Nature*** on January 2 and in ***Science*** on January 5, lay the foundation for the development of the quantum internet and strengthen China's leading role in quantum technology.

RESEARCH

Mar. 09

READ MORE

Chinese Optical Clock Accurate to Within 1 Second over 30 Billion Years



Researchers from the University of Science and Technology of China have achieved a major breakthrough in optical clock technology, developing a strontium optical lattice clock with stability and uncertainty both surpassing the 10^{-19} level, meaning the clock would lose or gain less than one second over roughly 30 billion years.

The findings were published in the international metrology journal ***Metrologia*** on Thursday.

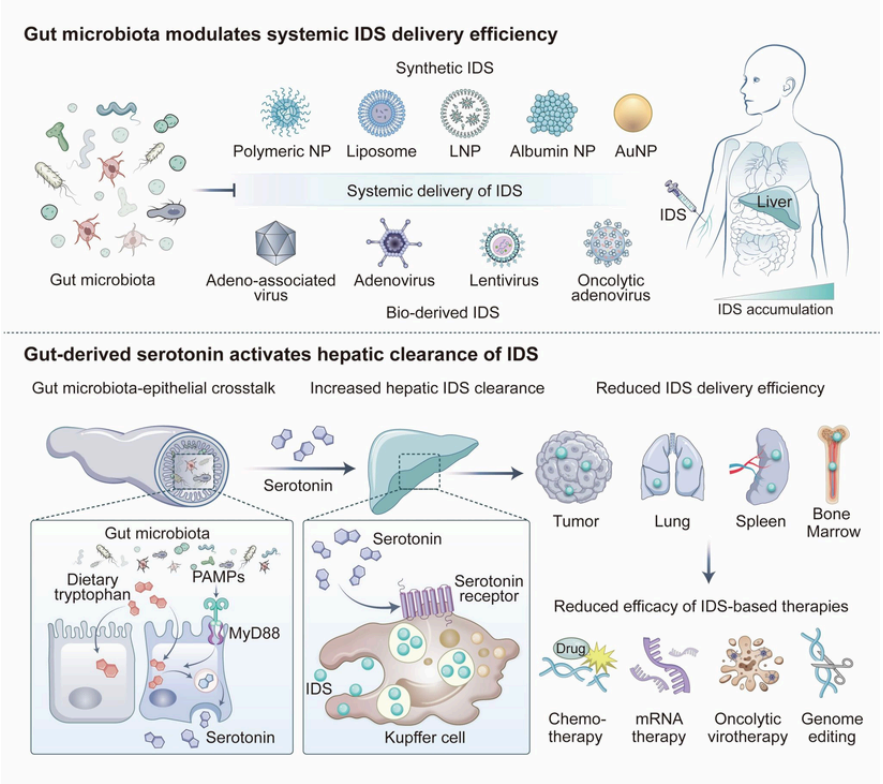
The new achievement provides a viable technological path for developing portable and space-based optical clocks. Researchers say it could support future applications including tests of fundamental physical laws, next-generation satellite navigation systems and the establishment of a unified ultra-precise global time standard.

RESEARCH

Mar. 20

READ MORE

USTC Reveals the Fundamental Mechanism of Hepatic Clearance of Drug Delivery Systems



The research team led by Professors WANG Yucai, ZhU Shu and JIANG Wei from the University of Science and Technology of China (USTC) published a research paper entitled Commensal-driven serotonin production modulates in vivo delivery of synthetic and viral vectors in ***Science*** on March 20.

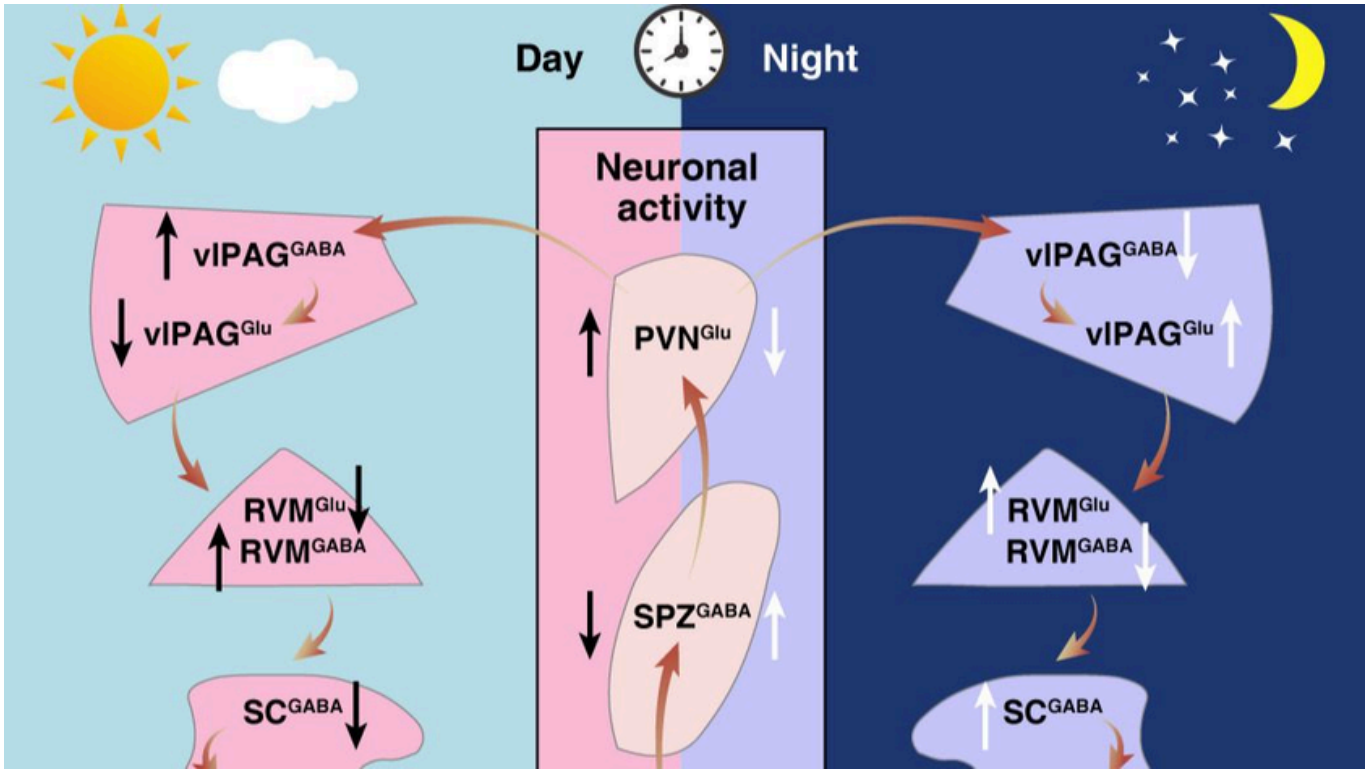
The study has for the first time elucidated the gut-liver immune regulatory axis jointly maintained by intestinal commensal bacteria and the intestinal endocrine system, and uncovered the fundamental mechanism underlying the body's non-specific clearance of drug delivery carriers. It provides a universal solution to the core problem plaguing the delivery field for decades, significantly improves the delivery efficiency and therapeutic effect of tumor-targeted therapy, mRNA therapy, gene editing and other treatments, and blazes a new trail for the clinical translation of biomedical delivery technologies.

RESEARCH

Mar. 23

READ MORE

Chinese Scientists Uncover Why Pain Gets Worse at Night



Many people with chronic pain find their discomfort manageable during the day but unbearable at night, and a team from China has now uncovered the neural mechanism behind these daily fluctuations.

The study, led by ZHANG Zhi of the University of Science and Technology of China in eastern Anhui province, was published on Friday in the journal ***Science***.

Using advanced viral tracing technology, the team mapped a specific neural pathway in mice that connects the SCN to the spinal cord. The researchers found that neurons in this pathway are controlled by the SCN's daily rhythm.

NEWS

Feb. 02

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Beijing Study Tour

From January 19–22, USTC International College organized a Beijing study tour as part of the Understanding China through Action – Global Youth Leadership Program.

Through visits to cultural, historical, and scientific landmarks in Beijing, international students explored China beyond the classroom--gaining firsthand insight into its richcultural heritage, modern development, and spirit of innovation.

More than a study tour, the program fostered cross-cultural dialogue and mutual understanding, offering global youth a vivid and multidimensional view of China beyond textbooks.









NEWS

Feb. 07

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Learning Chinese New Year the Hands-On Way

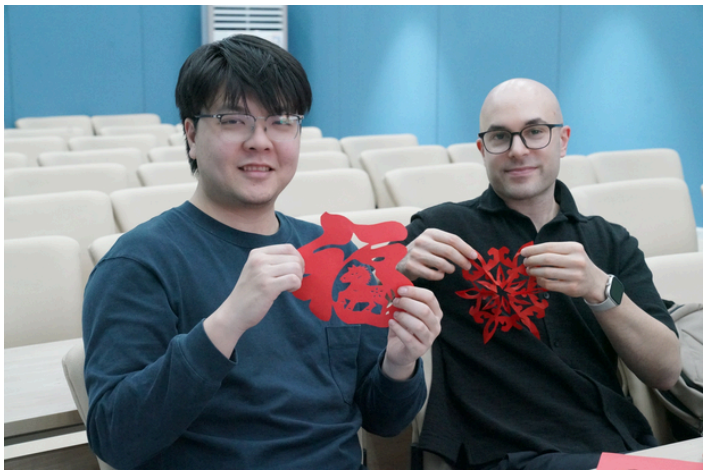
To help international students better understand Chinese New Year culture and traditions, the International College of USTC organized a lively Chinese Corner event full of creativity and festive spirit.

Through hands-on activities such as traditional paper-cutting (窗花剪纸) and Spring Festival couplet rubbing (春联拓印), students explored the meanings behind classic New Year symbols while creating their own festive works.

From cutting paper into beautiful patterns to transferring auspicious words onto red paper, cultural learning came alive--vivid, interactive, and full of joy. Culture is best learned when it’s seen, touched, and shared.







NEWS

Feb. 23

READ MORE

My Spring Festival in Anhui

On January 23, the USTC International Students Dragon Dance Team took part in the “My Spring Festival in Anhui” 2026 Chinese New Year Gathering for Chinese and international friends, held at Liqiao Water Town, Tongling.

Their spectacular dragon dance kicked off the celebration with power and elegance, showcasing the vibrant spirit and cultural confidence of USTC students

Beyond the stage, our international students also immersed themselves in traditional Spring Festival customs, explored the charm of Liqiao Water Town, and experienced Chinese culture up close—celebrating a lively, joyful, and truly shared Chinese New Year together.







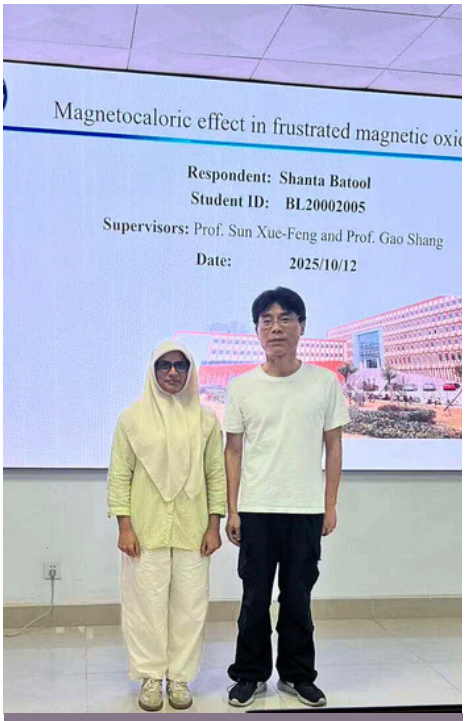
ALUMNI

MESSAGES FROM 2025 GRADUATES

My journey at USTC has been a time of learning, growth, and meaningful experiences. As I graduate, I take with me not only a degree, but also the knowledge, confidence, and memories that have shaped who I am today. USTC strengthened my curiosity, challenged me to improve, and prepared me for the next stage of my life.
I am deeply grateful to my professors, classmates, and friends who supported me along the way. Every challenge, every late-night effort, and every small achievement brought me closer to this moment. Thank you to everyone who shared this journey with me. Graduating is not an ending—it is the beginning of an even brighter chapter ahead."

Myint Myint San
Myanmar







This is not just a graduation—it is the result of sweat and tears.
It is not just a graduation—it is the proof of hard work.
This is not just a graduation—it is a journey of resilience and strength.
It is not just a graduation—it is the beginning of new possibilities.

Christiana O Aderibigbe
Nigeria

USTC was a garden of ideas, and I grew in its sunlight. Now I walk forward, carrying petals of knowledge and seeds of hope for the world ahead.

Shanta Batool
Pakistan



What we gained at USTC is not answers, but the ability to ask better questions. That skill will outlast every tool, trend, and title we encounter. I wish my fellow graduates the very best of luck as we move forward and apply it in the real world.

Shahzad Haider
Pakistan



USTC is full of unforgettable memories, where rigorous research goes hand in hand with meaningful experiences. Alongside academic excellence, the university offers rich opportunities that allow students to explore China beyond the classroom. These include exposure to the country's culture and visits to leading companies, helping students connect theory with practice. Such experiences broaden perspectives and support future career development, making life at USTC both intellectually rewarding and personally enriching.

Kurbanova Sabina
Turkmenistan

ALUMNI



USTC—a place I call home. Pride is an understatement. Sometimes a failed experiment is a big win. Fight the good fight!

Peter Joseph Chimtali

Malawi

"A journey is best measured not by distance, but by the people who walk beside us."

USTC was never just a place of study for me; it became a second home. Through the guidance of devoted teachers, the friendship of labmates, and the kindness of friends across China, I found support that extended far beyond academics. My family shared this journey with me, standing beside me through both challenges and milestones. With deep gratitude for everyone who shaped my years here, I move forward carrying the spirit of USTC and the memories of a place that will always feel like home.
Thank you, USTC, for a chapter I will always cherish.

Kashan Memon

Pakistan





My time at the University of Science and Technology of China has been a journey of learning, growth, and meaningful connections. Guided by dedicated teachers and supported by friends from diverse backgrounds, I gained not only academic knowledge but also lasting memories and new perspectives. As I move on to the next stage of my life, I remain deeply grateful to USTC and will always carry its spirit with me.

Muhammad Azam Fareed

Pakistan

Completing my PhD at USTC has been a profound honor. The world-class academic environment, outstanding scholarship, and unparalleled research opportunities provided the perfect foundation for growth.
I am deeply grateful to USTC and HFIPS-CAS for this incredible opportunity. My sincere thanks to all my mentors, the ISO, my dedicated labmates, and friends for their invaluable guidance, collaboration, and support throughout this journey.
Graduating from this prestigious institution is a privilege I hold dear. I pledge to carry the USTC spirit of excellence in all my future endeavors, striving to honor its name through my work and research.
Thank you, USTC. Thank you, HFIPS-CAS.
I love you, USTC. I love you, HFIPS-CAS.

Muhammad Zahid Sharif

Pakistan



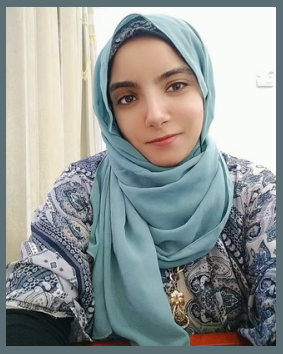


USTC accorded me a very valuable opportunity to pursue my dreams. The school provided a conducive environment with world-class facilities to learn and interact with people from diverse backgrounds. I am a proud USTCer, and I am glad to wear that badge with honor wherever I go.
ISO has made my time in China a memorable experience. Through different activities, I have learned about various cultures and met many amazing people. I am deeply grateful to the ISO staff for taking care of my well-being during these three years.
I extend my sincere appreciation to my professors and colleagues, who have contributed significantly to my academic growth. I am leaving USTC a different person from when I came because of the knowledge they have shared with me.
To everyone who has been part of my journey:
THANK YOU!
I WILL ALWAYS REMEMBER.

Samuel Wagaana

Uganda

ALUMNI



Samah Abdel Aziz

Egypt

As I stand at the end of this unforgettable chapter at the University of Science and Technology of China (USTC), I reflect on a journey that has shaped not only my academic path but also the person I have become. My years in China—eight in total, including two years at Huazhong University of Science and Technology in Wuhan for my master's studies, followed by my time here at USTC—have been filled with challenges, growth, and countless lessons.

Studying at USTC was never meant to be easy, and indeed, the academic requirements were high. From passing demanding courses and exams to choosing a research direction and facing the long process of publishing, every stage pushed me to discover new strengths within myself. As we say, "ياما دقت على الرؤوس طبول"—life hits hard sometimes. But falling or failing once does not mean we should give up. If you have already taken the first step, you must continue, no matter how dark the end of the tunnel may seem. This university taught us resilience, patience, and the true meaning of perseverance.

China has also opened doors for me to learn about cultures from around the world. It is a beautiful and safe place, especially for girls and, in fact, for anyone. I always felt respected, supported, and welcomed, and I truly came to see this country as my second home. The people here honor other cultures, and their kindness left a deep mark on me.

Today, as I prepare for the next step, I carry with me every challenge I overcame, every lesson I learned, and every memory I made. USTC will always be a part of me—my home, my teacher, and the place where I discovered my true potential.

To everyone who is still walking this path:
Do not give up. Even when the world feels dark, keep moving. You are stronger than you think, and you are capable of far more than you imagine.

My deepest thanks go to the International College (ISO) for their continuous help and care. ISO felt like a family that stood by us in every situation.

To my friends, thank you for the laughter, late-night talks, support during tough times, and wonderful memories.

And to USTC, thank you for welcoming me, supporting me, and believing in me. I truly felt supported at every step.

SHARE YOUR STORY !

WHAT YOU CAN SHARE

including but not limited to

- CAREER & RESEARCH
- LIFE AFTER USTC
- ENTREPRENEURIAL VENTURES
- CROSS-CULTURAL EXPERIENCES
- MEMORABLE USTC MOMENTS

FORMATS

- ARTICLES OR ESSAYS
- PHOTO STORIES
- SHORT VIDEOS
- INTERVIEWS

SUBMIT NOW!

intlalumni@ustc.edu.cn

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