



Your CEPAMS Newsletter - November 2024

Introduction

Welcome to the CEPAMS Newsletter.

How lovely it was to receive such a warm welcome when so many of us in CEPAMS travelled to Norwich for the Annual Science Meeting. The CEPAMS Seminar Session was very well attended, and researchers from our four institutes (CEMPS, IGDB, JIC and TSL) continued their discussions over multiple meetings and dinners.

In this newsletter we celebrate the scientific collaborations, established and emerging, and the breakthrough science happening between our institutes.



Prof. Xiaofeng Cao
Co-Director of CEPAMS

Upcoming Grants & Awards



Grant: **PIFI**
Status: **Open**

LEVERHULME
TRUST _____

Grant: **International Fellowships**
Status: **Closes 07 November 2024**



Grant: **Visiting Fellowship**
Status: **Closes 06 November 2024**



Biotechnology and
Biological Sciences
Research Council

Grant: **International Travel Award**
Status: **Closes 30 September 2025**



Biotechnology and
Biological Sciences
Research Council

Grant: **International Partnership**
Status: **Closes 20 November 2024**

LEVERHULME
TRUST _____

Grant: **Visiting Professorships**
Status: **Closes 01 May 2025**

Collaboration Testimonials



"CEPAMS has provided me with a fantastic opportunity to build connections and develop collaborations with world-leading researchers working at China's top plant research institutions. During JIC's Annual Science Meeting, 12 CEPAMS group leaders travelled to Norwich to interact with JIC scientists and present their work. After discussions with Cao Xu, a CEPAMS group-leader at IGDB, we identified many areas of mutual interest and several avenues for future collaboration. I look forward to working with Cao in the future to answer fundamental questions in plant genetics that could drive downstream crop innovation."

Chris Morgan, Group Leader, JIC

Spotlight on...



[Dapeng Li](#)

Group Leader, CEMPS

Interested in:

[Plant metabolomics](#)

[Function metabolomics](#)



[Jun Xiao](#)

Group Leader, IGDB

Interested in:

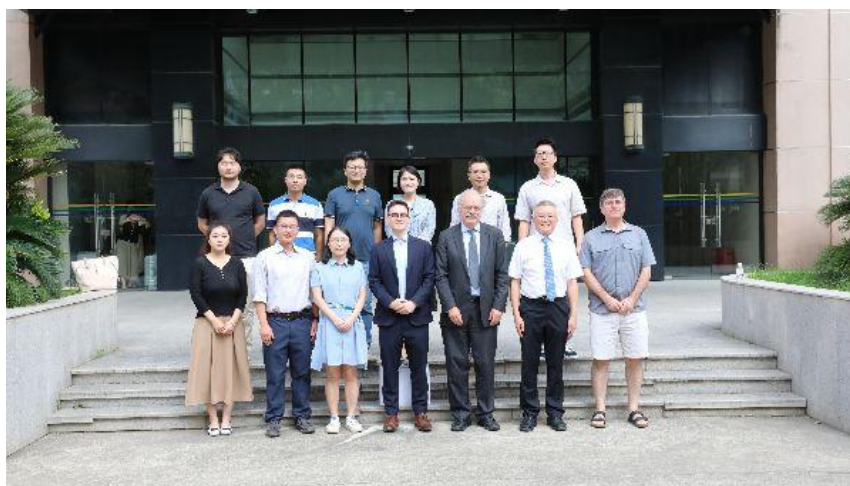
[Wheat functional genomics](#)

[Nitrogen use efficiency](#)

Events Coming Up

Autumn 2024 [Seminars at CEMPS](#) (Shanghai)
Autumn 2024 [Seminars at IGDB](#) (Beijing)
Autumn 2024 [Friday Seminars at JIC](#) (Norwich)
22-25 November 2025 [ICPM 2024](#)
23-25 April 2025 CEPAMS Symposium, Shanghai

The Royal Society Visits CEMPS in Shanghai



On 9th September, Professor Sir Mark Walport, Vice President of the Royal Society, along with his esteemed delegation, visited the CEPAMS Shanghai Campus.

The meeting was attended by Prof. Bin Han, Director of the Center for Excellence in Molecular Plant Sciences (CEMPS), Prof. Yu Zhang, Deputy Director of CEMPS, and PIs from CEPAMS.

Following this engaging discussion, Sir Mark Walport embarked on a tour of the laboratories of Jeremy Murray and Dapeng Li. In his reflections on the visit, he lauded CEPAMS as a "Recipe for Success."

CEPAMS Publications



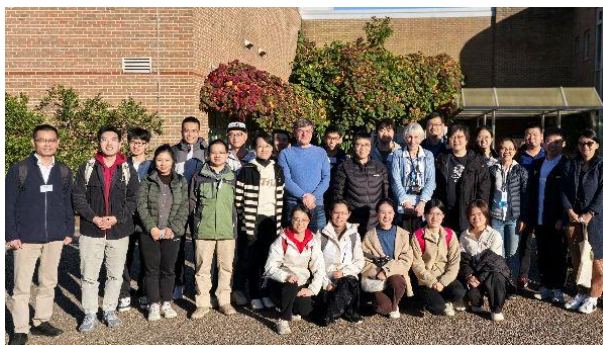
[Jiang et al., 2024](#). A new anti-CRISPR gene promotes the spread of drug-resistance plasmids in *Klebsiella pneumoniae*.

[Wu et al., 2024](#). Single-cell RNA sequencing facilitates the elucidation of the complete biosynthesis of the antidepressant hyperforin in *St. John's wort*.

[Wu & Tatsis, 2024](#). Specialized metabolism in *St. John's wort*.

[Zhang et al.](#) Structural variation discovery in wheat using PacBio high-fidelity sequencing.

CEPAMS at the ASM



In October, 29 CEPAMS Group Leaders, postdocs and students travelled to Norwich for a week of presentations and collaborative discussions.

The week began with the CEPAMS Seminar Session, when 9 CEPAMS Group Leaders introduced their research to a packed seminar room.



Discussions were held across many groups on the potential for new collaborative projects, and also the chance to meet up with old friends.



The CEPAMS delegation were officially welcomed to the three-day Annual Science Meeting by chair Frank Menke.

Science Presentations, Workshops and Conferences



- Weibing Yang (pictured above) presented his research at the JIC/TSL Annual Science Meeting. He spoke about the molecular mechanisms of plant stem cell dynamics.
- Yiliang Ding (pictured above) presented her science at IGDB in Beijing on decoding and encoding RNA language in nature.
- Jun Xiao and Fei Lu were both invited speakers at the 23rd Plant Genomics in China Conference.
- Hiromu Kameoka was an invited speaker at the International Conference on Mycorrhiza (ICOM12) in Manchester, UK.
- Fei Lu presented his research at the 3rd International Wheat Congress (IWC 2024) in Perth, Western Australia. His presentation was entitled "Cracking the regulatory code of bread wheat using Triticeae genomes".
- Vangelis Tatsis was invited to present his recent work at the 2024 World Life Science Conference in Hainan, China.
- Peng Sang, Xiangmei Zhu, Shanjie Tang, Mengjie Zhao and Jiaping Zhu all presented posters at the ASM.
- Xiufang Xin spoke at the 3rd Young Scientists Forum in Henan Province, China: "Analysis of plant-pathogen - Environment interaction mechanism".
- Weibing Yang presented at the Cross-Strait and Hong Kong and Macao Plant Biology Forum, Chengdu, China.
- Jeremy Murray presented his research on "Symbiotic NF-Ys affect iron and nitrate homeostasis in *Medicago truncatula*" at the 11th International Conference on Legume Genetics and Genomics, Brisbane, Australia.

CEPAMS News



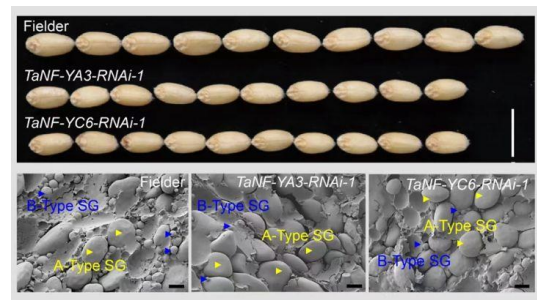
[Chinese Scientists Reveal a novel mechanism of plant immunity against viruses](#)



[Researchers Discover the Molecular Mechanism Underlying tms5-mediated TGMS in Rice](#)



[Researchers Complete Benchmark Testing for Genome Structural Variation Detection Based on Third-Generation Sequencing Technology](#)



[TaNF-Y Balance Grain Yield and Quality in Wheat](#)

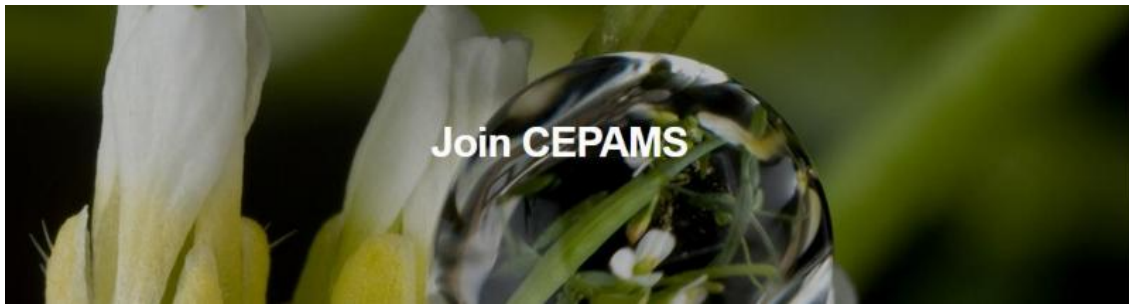
Congratulations to...

Jun Xiao and **Cristobal Uauy** on being awarded a collaborative grant.

Xiaofeng Cao and **Lei Qi** on being awarded a grant to fund travel and operating expenses for collaborative exchanges between China and the UK.

A warm welcome to **Zijie Li**, who joins the Kameoka lab as a postdoc. Zijie will participate in the identification of new genes related to AM symbiosis by phylogenomics.

Good luck to all those who are currently submitting joint grant proposals!



CEPAMS Group Leader Positions

CEPAMS is [recruiting for Group Leaders](#) in Shanghai and Beijing.

This important role will give you the financial support and freedom to advance your own original research programmes in a collaborative and supportive environment.

Our research makes use of a wide range of disciplines in the biological and chemical sciences including cell biology, biochemistry, chemistry, genetics and molecular biology.

If you wish to apply, please send your CV, research proposal, and three letters of recommendation to cepams@genetics.ac.cn and nlin@cemps.ac.cn.

Share your science

We'd love to celebrate your science in the CEPAMS newsletter. Please [email us](#) with any information on activities or achievements you've had, including:

- Recent events you've been involved in.
 - Awards that you or colleagues have received.
 - Podcasts or seminars you have given.
 - Virtual events you have attended or would like to be advertised.
 - Interactions with external people on your science and projects.
 - Industry interactions and collaborations.
 - Articles you have published.
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