2026 Greater Bay Area (Guangdong)
Agricultural Science and Technology Forum

20th Anniversary

The 14th International Peanut Conference on

# Advances in *Arachis* through Genomics & Biotechnology (AAGB-2026)

## Third Announcement

CSSGD
The Crops Science Society of Guangdong Province

THE PEANUT RESEARCH FOUNDATION

MOL BREEDING

## Conference Background

The year 2026 marks the 20th anniversary of the Advances in *Arachis* through Genomics and Biotechnology (AAGB) conference. Since its inaugural meeting in 2006, AAGB has been successfully held across the globe. It has consistently built a high-level and professional platform for international academic exchange and collaboration among experts and scholars engaged in peanut genomics and biotechnology worldwide, playing an important role in advancing scientific innovation and promoting the sustainable development of the global peanut industry.

To commemorate this important milestone, the **20th Anniversary International Conference on Advances in *Arachis* through Genomics and Biotechnology (AAGB-2026)** will be held in Guangzhou, China, from **November 9 to 13, 2026**. As an important component of the 2026 Greater Bay Area (Guangdong) Agricultural Science and Technology Forum, the conference will be jointly organized by The Crops Science Society of Guangdong Province (CSSGD) and The Peanut Research Foundation (TPRF), and hosted by the Crops Research Institute (CRI) of GDAAS. As the largest peanut producing region in South China, Guangdong boasts an annual peanut planting area of over 5 million mu (~333,000 hectares). With a solid industrial foundation and prominent research strengths, the province provides sound industrial support and an excellent academic environment for the conference.

It is expected that more than 200 experts and scholars from over 30 countries will gather at this event. Through plenary lectures, invited presentations, thematic sessions, young scholar forums and poster exhibitions, participants will conduct in-depth discussions on the latest advances in peanut genomics and biotechnology, further strengthening international scientific exchange and collaboration for the benefit of the global peanut research and industry community.

## Conference Overview

**Date:** November 9–13, 2026
**Venue:** Chimelong International Convention & Exhibition Center, Guangzhou, China
**Conference Language:** English
**Conference Website**: https://aagb2026.scievent.com/

## Organizational Structure

### • Host & Organizer

**Host**:
The Crops Science Society of Guangdong Province (CSSGD)
The Peanut Research Foundation (TPRF)
**Organizer**:
Crops Research Institute (CRI)

## • Conference Leadership

General Chairs:

邓诣群 Yiqun Deng (Secretary of the Party Committee, GDAAS)

朱立学 Lixue Zhu (President, GDAAS)

Co-Chairs:

曾继吾 Jiwu Zeng (Vice President, GDAAS)

易干军 Ganjun Yi (Professor, GDAAS)

陈小平 Xiaoping Chen (Professor, Crops Research Institute, GDAAS)

## • Organizing Committee

Chair:

陈小平 Xiaoping Chen (Crops Research Institute, GDAAS)

Co-Chairs:

张新友 Xinyou Zhang (Henan Academy of Agricultural Sciences, China)

万书波 Shubo Wan (Shandong Academy of Agricultural Sciences, China)

Keith Rucker (The Peanut Research Foundation, USA)

Rajeev K. Varshney (Murdoch University, Australia)

万勇善 Yongshan Wan (Shandong Agricultural University, China)

Secretary:

Josh Clevenger (HudsonAlpha Institute for Biotechnology, USA)

洪彦彬 Yanbin Hong (Crops Research Institute, GDAAS, China)

鲁清 Qing Lu (Crops Research Institute, GDAAS, China)

Members (alphabetical by last name):

David J. Bertioli, 陈一舞 Charles Chen, Jake Fountain, 雷永 Yong Lei, 梁炫强 Xuanqiang Liang, 廖伯寿 Boshou Liao, Peggy Ozias-Akins, Manish K. Pandey, 单世华 Shihua Shan, 石爱民 Aimin Shi, 唐荣华 Ronghua Tang, Le Duc Thao, Ethan Thompson, 王强 Qiang Wang, 王兴军 Xingjun Wang, 殷冬梅 Dongmei Yin, 郑峥 Zheng Zheng, 庄伟建 Weijian Zhuang

## • Scientific Committee

Chair:

张新友 Xinyou Zhang (Henan Academy of Agricultural Sciences, China)

Co-Chairs:

万书波 Shubo Wan (Shandong Academy of Agricultural Sciences, China)

Keith Rucker (The Peanut Research Foundation, USA)

Rajeev K. Varshney (Murdoch University, Australia)

万勇善 Yongshan Wan (Shandong Agricultural University, China)

Members (alphabetical by last name):

David J. Bertioli, Josh Clevenger, 雷永 Yong Lei, 梁炫强 Xuanqiang Liang, 廖伯寿 Boshou Liao, Sanusi Gaya Mohammed, Peggy Ozias-Akins, Manish K. Pandey, 单世华 Shihua Shan, 石爱民 Aimin Shi, 唐荣华 Ronghua Tang, Le Duc Thao, 王强 Qiang Wang, 王兴军 Xingjun Wang, 殷冬梅 Dongmei Yin, 郑峥 Zheng Zheng, 庄伟建 Weijian Zhuang

## Conference Schedule (Tentative)

**Date: November 9–13, 2026**

| Date | Time | Agenda |
|---|---|---|
| **Day 1 / Monday November 9** | 14:00—17:00 | Registration |
| | 18:30—20:30 | Dinner |
| **Day 2 / Tuesday November 10** | 08:30—09:30 | Session 1: Opening Ceremony |
| | 09:40—10:00 | Coffee Break |
| | 10:00—12:00 | Session 2: Plenary lecture |
| | 12:00—14:00 | Lunch |
| | 14:00—18:00 | Session 3: AAGB Keynote Presentations |
| | 18:00—20:00 | Dinner |
| **Day 3 / Wednesday November 11** | 08:00—12:00 | Session 4-5: Thematic Presentations |
| | 12:00—14:00 | Lunch |
| | 14:00—18:00 | Session 6-7: Thematic Presentations |
| | 18:00—20:00 | Dinner |
| **Day 4 / Thursday November 12** | 08:00—12:00 | Session 8-9: Thematic Presentations |
| | 12:00—14:00 | Lunch |
| | 14:00—16:00 | Session 10: Young Scholars Forum |
| | 16:20—17:30 | Session 11: AAGB Development Forum |
| | 17:30—18:00 | Closing Ceremony |
| | 18:00—20:00 | Dinner |
| **Day 5 / Friday November 13** | Morning | Departure |

## Confirmed Speakers and Talks (*Regularly Updated*)

| Greater Bay Area Forum Keynote Presentations | | |
|---|---|---|
| Name | Affiliation | Presentation Title |
| **张新友 Xinyou Zhang** | Henan Academy of Agricultural Sciences | TBD |
| **Rajeev K. Varshney** | Murdoch University | TBD |
| **AAGB Keynote Presentations** | | |
| **Name** | Affiliation | Presentation Title |
| **王强 Qiang Wang/ 石爱民 Aimin Shi** | Institute of Food Science and Technology, CAAS | TBD |
| **殷冬梅 Dongmei Yin** | Henan Agricultural University | TBD |
| **王兴军 Xingjun Wang** | Shandong Academy of Agricultural Sciences | Peanut agronomic trait mapping and gene mining |
| **郑峥 Zheng Zheng** | Henan Academy of Agricultural Sciences | TBD |
| **雷永 Yong Lei** | Oil Crops Research Institute, CAAS | TBD |
| **单世华 Shihua Shan/ 陈静 Jing Chen** | Shandong Peanut Research Institute | Deciphering salt and drought resistance in peanut: From gene discovery to practical breeding |
| **Thematic Presentations — Genomics and Evolution Convener: 殷冬梅 Dongmei Yin** | | |
| Name | Affiliation | Presentation Title |
| **田志喜 Zhixi Tian** | Institute of Genetics and Developmental Biology, CAS | TBD |
| **David J. Bertioli** | University of Georgia | TBD |
| **庄伟建 Weijian Zhuang** | Fujian Agriculture and Forestry University | Molecular mechanisms of peanut-*Ralstonia solanacearum* effector interactions in resistance to bacterial wilt |
| **李国卫 Guowei Li** | Shandong Academy of Agricultural Sciences | TBD |
| **刘晓芹 Xiaoqin Liu** | Peking University Institute of Advanced Agricultural Sciences | T2T Genome Assemblies Facilitate Peanut Agronomic Trait Improvement |
| **王晓波 Xiaobo Wang** | Henan Academy of Agricultural Sciences | Integrated PacBio HiFi and Nanopore sequencing enables high-quality nuclear and mitochondrial genome assembly in peanut |

| Thematic Presentations — Agronomic Trait Mapping and Gene Mining<br>Convener: 王兴军 Xingjun Wang | | |
|---|---|---|
| Name | Affiliation | Presentation Title |
| **万勇善 Yongshan Wan** | Shandong Agricultural University | From genetic dissection to field application: Uncovering the genetic basis of oil content and breeding of high-oil peanut varieties |
| **赵传志 Chuanzhi Zhao** | Shandong Academy of Agricultural Sciences | Mapping, functional identification and breeding utilization of peanut *AhRt* gene for improving seed anthocyanin accumulation |
| **罗怀勇 Huaiyong Luo** | Oil Crops Research Institute, CAAS | Phenotypic identification, genetic mapping and germplasm utilization of bacterial wilt resistance in groundnut |
| **赵昆昆 Kunkun Zhao** | Henan Agricultural University | Discovery and functional validation of key regulators governing pod size in peanut |
| **鲁清 Qing Lu** | Guangdong Academy of Agricultural Sciences | Progress in peanut genomics research and breeding application at CRI-GDAAS |
| **Thematic Presentations — Genome Editing and Frontier Technologies<br>Convener: 郑峥 Zheng Zheng** | | |
| Name | Affiliation | Presentation Title |
| **Sandip Kumar Bera** | ICAR-Directorate of Groundnut Research, India | Genomic selection-driven varietal development transforming end to end groundnut commodity chain in India |
| **石磊 Lei Shi** | Henan Academy of Agricultural Sciences | Development of novel transgene-free high-oleic peanuts through CRISPR-Cas9 mediated gene editing of two *AhFAD2* homologues |
| **刘浩 Hao Liu** | Guangdong Academy of Agricultural Sciences | Peanut single-nucleus transcriptome atlas reveals gene expression heterogeneity during cell development |
| **淮东欣 Dongxin Huai** | Oil Crops Research Institute, CAAS | Genetic transformation and genome editing technologies for enhancing quality and stress resistance in peanut |
| **李晓云 Xiaoyun Li** | South China Normal University | Integrated optimization of somatic embryogenesis and genetic transformation reveals *ATS3B* as a key regulator of somatic embryo morphogenesis in peanut |
| **Thematic Presentations — Genetic Improvement and Sustainable Cultivation<br>Convener: 雷永 Yong Lei** | | |
| Name | Affiliation | Presentation Title |
| **万书波 Shubo Wan/<br>王建国 Jianguo Wang** | Shandong Academy of Agricultural Sciences | Regulatory Theory and Techniques for High-Efficiency Nitrogen Utilization Throughout the Peanut Growth Cycle |
| **Scott Allen Jackson** | University of Georgia | Crop design-integration of synthetic biology with plant breeding |
| **Manish K. Pandey** | International Crops Research Institute for the Semi-Arid Tropics (ICRISAT) | Harnessing translational genomics and pre-breeding to build climate-resilient groundnuts |
| **迟晓元 Xiaoyuan Chi** | Shandong Peanut Research Institute | TBD |

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|---|---|---|
| **刘娟 Juan Liu** | Henan Academy of Agricultural Sciences | TBD |
| **Thematic Presentations — Biotic and Abiotic Stress Resistance<br>Convener: 单世华 Shihua Shan** | | |
| Name | Affiliation | Presentation Title |
| **韩锁义 Suoyi Han** | Henan Academy of Agricultural Sciences | Identification of genes associated with leaf size in peanut (*Arachis hypogaea* L.) |
| **Happy Makuru Daudi** | International Maize and Wheat Improvement Center (CIMMYT) | Accelerating genetic gain in African groundnut improvement through genomics-enabled selection, quality assurance, and multi-environment evaluation |
| **王欣 Xin Wang** | Oil Crops Research Institute, CAAS | Analysis of genetic diversity and functional gene discovery for cold tolerance in groundnut |
| **乔利仙 Lixian Qiao** | Qingdao Agricultural University | Development of high-oil, salt-tolerant germplasms and breeding of new varieties in peanut |
| **赵立宸 Lichen Zhao** | Shandong Agricultural University | Evaluation of phosphorus efficiency and mining of key regulatory genes in peanut germplasm |
| **陈光辉 Guanghui Chen** | Shandong Peanut Research Institute | QTL mapping and genetic dissection of key agronomic traits in peanut domestication and breeding |
| **Thematic Presentations — Processing and Industrial Applications<br>Convener: 石爱民 Aimin Shi** | | |
| Name | Affiliation | Presentation Title |
| **陈复生 Fusheng Chen** | Henan University of Technology | Processing-induced interfacial remodeling of peanut oil body emulsions: Mechanisms regulating hydrophobic bioactive delivery |
| **徐学兵 Xuebing Xu** | Yihai Kerry (Shanghai) Biotechnology Co., Ltd. | Sustainable production of fragrant peanut oil through bio-modulation of precursor formation for flavor intensification |
| **李铎 Duo Li** | Qingdao University | Advances in dietary lipids and human health |
| **陈红兵 Hongbing Chen** | Nanchang University | The impact of food processing on the allergenicity of peanut proteins |
| **王进 Jin Wang** | Southeast University | TBD |
| **张明华 Minghua Zhang** | Shandong Jinsheng Group | TBD |
| **Young Scholars Forum<br>Convener: 鲁清 Qing Lu** | | |
| Name | Affiliation | Presentation Title |
| **于淼 Miao Yu** | Liaoning Academy of Agricultural Sciences | Genipin-crosslinked okara nanocellulose-peanut protein conjugates for improved emulsification and *Lactiplantibacillus plantarum* protection |

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|---|---|---|
| **王明清 Mingqing Wang** | Shandong Peanut Research Institute | Peanut product development and primary processing equipment creation |
| **余倩霞 Qianxia Yu** | Guangdong Academy of Agricultural Sciences | Alternative splicing mediated by a G-box variant in the *AhWRI1a* promoter confers quantitative regulation of seed oil biosynthesis in peanut |
| **孙子淇 Ziqi Sun** | Henan Academy of Agricultural Sciences | Telomere-to-telomere genome assembly of the elite peanut cultivar Yuhua 15 identifies *YABBY* as a key regulator of pod and seed size |
| **向飞 Fei Xiang** | Institute of Food Science and Technology, CAAS | Elucidating flavor formation molecular mechanisms in peanut roasting through multi-omics analysis |
| **郑召 Zhao Zheng** | South China Normal University | A unique COPII regulator mediates ER-to-symbiosome trafficking essential for nitrogen-fixing symbiosis in peanut |
| **李星 Xing Li** | Shandong Agricultural University | Fine mapping of *qDPA07.1* and candidate gene identification for pod rot resistance in peanut (*Arachis hypogaea* L.) |
| **杨泽茂 Zemao Yang** | Hunan Agricultural University | Deciphering the low-calcium response in peanut roots via single-cell RNA-seq and ATAC-seq |
| **Muhammad Jawad Umer** | Guangdong Academy of Agricultural Sciences | Natural variation in *AHRAV1* Reveals a negative regulatory mechanism of seed size in peanut |

## Call for Abstracts & Posters

### • Topics of Interest (including, but not limited to, the following areas)

**Genomics and Evolution**

Convener: 殷冬梅 Dongmei Yin (yindm@henau.edu.cn)

**Agronomic Trait Mapping and Gene Mining**

Convener: 王兴军 Xingjun Wang (xingjunw@hotmail.com)

**Genome Editing and Frontier Technologies**

Convener: 郑峥 Zheng Zheng (zhengzheng@hnagri.org.cn)

**Genetic Improvement and Sustainable Cultivation**

Convener: 雷永 Yong Lei (leiyong@caas.cn)

**Biotic and Abiotic Stress Resistance**

Convener: 单世华 Shihua Shan (shansh1971@163.com)

**Processing and Industrial Applications**

Convener: 石爱民 Aimin Shi (shiaimin@caas.cn)

### • Abstract Submission Guidelines

**1.** Abstracts must be written in English and must not have been previously published. Please follow the abstract template available on the conference website (https://aagb2026.scievent.com/abstract-submission.html).

**2.** Poster size: A0 (841mm × 1189mm), portrait orientation. Please refer to the poster template on the conference website (https://aagb2026.scievent.com/poster-submission.html).

**3.** Submission: Please submit via the online system at the conference website, or send as an email attachment to aagb2026@hotmail.com.

## Registration & Accommodation

**Registration Venue:** Guangzhou Chimelong Hotel

**Hotel Address:** No. 299 Hanxi Avenue East, Panyu District, Guangzhou (next to the Chimelong International Convention Center)

Single room with king size bed : **RMB 450 / night**, breakfast included

**Note:** Rooms have already been reserved at the conference hotel for AAGB-2026 participants, so **no advance booking is required**. After registration, please go directly to the hotel front desk and inform them that you are an AAGB-2026 participant to check in at the negotiated rate.

## Registration Information

### • Registration Method

Online registration only. Website: https://aagb2026.scievent.com/register.html

Or scan the QR code below to register and pay.

Registration open: April 3 — October 31, 2026

### • Registration Fees

| Category | Standard |
|---|---|
| Regular Delegate | $360 USD |
| Student* | $220 USD |

* Students must provide a valid student ID upon registration.

### • Payment & Invoice

**1.** The registration fee shall be determined based on the actual date of payment.
**2.** Payment Methods: bank transfer, and on-site payment are accepted. Upon completion of registration, the system will automatically generate an order. For payments in USD, participants are advised to switch to the English-language interface.
**3.** Invoice issuance: after registration and payment are completed, the organizing committee will issue an electronic invoice within three working days. It can be downloaded from your personal account center.

## Sponsorship Opportunities

To promote exchange and collaboration among the peanut industry, agricultural technology enterprises, and research institutions in China and abroad, AAGB-2026 welcomes support from relevant organizations and enterprises. The conference will provide sponsors with opportunities for brand visibility, achievement promotion, exhibition-based exchange, and interaction with international experts. Sponsorship options are as follows:

**1. Conference Co-sponsor**: The conference will include the name and profile of each co-sponsor in conference materials, on the conference website, and in relevant promotional materials. The name or logo of each co-sponsor will also be displayed prominently on the electronic screen at the conference venue. Co-sponsors may provide bilingual promotional materials in Chinese and English, and the conference will provide one exhibition booth. Other specific arrangements may be discussed with the Organizing Committee. **Sponsorship Fee: RMB 100,000**

**2. Exhibition Booth**: The conference will provide each exhibitor with one exhibition booth outside the conference hall and promotional space in the conference materials for bilingual text or image materials provided by the exhibitor. **Sponsorship Fee: RMB 30,000-50,000**

**3. Corporate Delegate Registration**: Corporate delegates may register to attend the conference and will receive the same conference services as other participants. Delegates who do not conduct corporate promotion, booth exhibition, or commercial activities shall register only as corporate delegates. **Registration Fee: RMB 5,000 per person**

For more information on sponsorship cooperation, please visit the conference website:

https://aagb2026.scievent.com/1.html

## Contact Information

AAGB-2026 Secretariat
Tel: +86 020-85266858
Email: aagb2026@hotmail.com
Conference Website: https://aagb2026.scievent.com/

We cordially invite researchers, experts, scholars, and professionals in relevant fields from around the world to attend this academic gathering and to contribute to the advancement of innovation and collaboration in peanut science.

**AAGB-2026 Organizing Committee**

SEPTEMBER 2026, Guangzhou