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)

Final Announcement

CSSGD
The Crops Science Society of Guangdong Province

THE PEANUT RESEARCH FOUNDATION

Nikon · 科朋仪器 Friend of Scientists · 托普云农 · MOL BREEDING · 锐竞信息 · Agilent · 百奥云 BioBin Data

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

Programme

Day 0 ·Monday, 9 November	
Time	Programme
14:00-18:00	Registration
18:30-20:30	Dinner

Day 1 ·Tuesday, 10 November — Morning		
Session I ·Opening Ceremony of the Greater Bay Area Forum Venue: Hall A		
Session II ·Keynote Lectures of the Greater Bay Area Forum Venue: Hall A		
Time	Title	Speaker
10:00-10:30	Research Progress in Smart Agriculture in China	罗锡文 Xiwen Luo, South China Agricultural University
10:30-11:00	TBD	张新友 Xinyou Zhang, Henan Academy of Agricultural Sciences
11:00-11:30	Greening Phosphate (The Sustainable Future of Phosphate Resources)	Roland Bol, Forschungszentrum Jülich, Helmholtz Association, Germany
11:30-12:00	Climate-Resilient Crop Design and Intelligent Robotic Breeding	许操 Cao Xu, Institute of Genetics and Developmental Biology, CAS
12:00-12:30	TBD	谷晓峰 Xiaofeng Gu, Chinese Academy of Agricultural Sciences
12:30-14:00	Lunch	

Day 1 · Tuesday, 10 November — Afternoon

Session III · AAGB Keynote Lectures
Convener: **Xiaoping Chen** · Venue: Chimelong Hall
Session chair: **Xiaoping Chen**

Time	Title	Speaker
14:00-14:30	Technology innovation and application of peanut cake protein processing characteristics improvement and cascade utilization	王强 Qiang Wang, Institute of Food Science and Technology, CAAS
14:30-15:00	Going (pea)nuts: Peanut genomics from variation maps, T2T genomes to breeding	殷冬梅 Dongmei Yin, Henan Agricultural University
15:00-15:30	Peanut agronomic trait mapping and gene mining	王兴军 Xingjun Wang, Shandong Academy of Agricultural Sciences
15:30-16:00	Peanut breeding after the genomic era	郑峥 Zheng Zheng, Henan Academy of Agricultural Sciences
16:30-17:00	Advances in the genetic basis of quality traits and breeding of high-quality special-purpose peanut varieties	雷永 Yong Lei, Oil Crops Research Institute, CAAS
17:30-18:00	Deciphering salt and drought resistance in peanut: From gene discovery to practical breeding	陈静 Jing Chen, Shandong Peanut Research Institute
18:30-20:00	Dinner	

Day 2 · Wednesday, 11 November — Morning

Session IV · Genomics and Evolution
Convener: **Dongmei Yin** · Venue: Chimelong Hall
Session chairs: **Dongmei Yin** (08:00–09:00), **Weijian Zhuang** (09:00–10:00)

Time	Title	Speaker
08:00-08:20	From genomes to pangenomes: a collaborative journey in peanut improvement with China	Rajeev K. Varshney, Murdoch University
08:20-08:40	Towards soybean molecular breeding	田志喜 Zhixi Tian, Institute of Genetics and Developmental Biology, CAS
08:40-09:00	Molecular mechanisms of peanut–*Ralstonia solanacearum* effector interactions in resistance to bacterial wilt	庄伟建 Weijian Zhuang, Fujian Agriculture and Forestry University
09:00-09:20	Pangenome-guided discovery and utilization of peanut germplasm resources	李国卫 Guowei Li, Shandong Academy of Agricultural Sciences
09:20-09:40	T2T genome assemblies facilitate peanut agronomic trait improvement	刘晓芹 Xiaoqin Liu, Institute of Advanced Agricultural Sciences, Peking University
09:40-10:00	Integrated PacBio HiFi and Nanopore sequencing enables high-quality nuclear and mitochondrial genome assembly in peanut	王晓波 Xiaobo Wang, Henan Academy of Agricultural Sciences

Session V · Agronomic Trait Mapping and Gene Mining
Convener: **Xingjun Wang** · Venue: Chimelong Hall
Session chairs: **Xingjun Wang** (10:00–11:00), **Dongxin Huai** (11:00–12:00)

Time	Title	Speaker
10:00-10:20	From genetic dissection to field application: Uncovering the genetic basis of oil content and breeding of high-oil peanut varieties	万勇善 Yongshan Wan, Shandong Agricultural University
10:20-10:40	How evolutionary history set in motion peanut's genetic adventure	David J. Bertioli, University of Georgia
10:40-11:00	Mapping, functional identification and breeding utilization of peanut *AhRt* gene for improving seed anthocyanin accumulation	赵传志 Chuanzhi Zhao, Shandong Academy of Agricultural Sciences
11:00-11:20	Phenotypic identification, genetic mapping and germplasm utilization of bacterial wilt resistance in groundnut	罗怀勇 Huaiyong Luo, Oil Crops Research Institute, CAAS
11:20-11:40	Discovery and functional validation of key regulators governing pod size in peanut	赵昆昆 Kunkun Zhao, Henan Agricultural University
11:40-12:00	Progress on peanut genomics research and breeding application at CRI-GDAAS	鲁清 Qing Lu, Guangdong Academy of Agricultural Sciences
12:00-14:00	Lunch	

Day 2 · Wednesday, 11 November — Afternoon

Session VI · Genome Editing and Frontier Technologies
Convener: **Zheng Zheng** · Venue: Chimelong Hall
Session chairs: **Zheng Zheng** (14:00–15:00), **Chuanzhi Zhao** (15:00–16:00)

Time	Title	Speaker
14:00-14:20	Genomic selection-driven varietal development transforming end to end groundnut commodity chain in India	Sandip Kumar Bera, ICAR-Directorate of Groundnut Research, India
14:20-14:40	Development of novel transgene-free high-oleic peanuts through CRISPR-Cas9 mediated gene editing of two *AhFAD2* homologues	石磊 Lei Shi, Henan Academy of Agricultural Sciences
14:40-15:00	Genetic transformation and genome editing technologies for enhancing quality and stress resistance in peanut	淮东欣 Dongxin Huai, Oil Crops Research Institute, CAAS
15:00-15:20	Peanut single-nucleus transcriptome atlas reveals gene expression heterogeneity during cell development	刘浩 Hao Liu, Guangdong Academy of Agricultural Sciences
15:20-15:40	Integrated optimization of somatic embryogenesis and genetic transformation reveals *ATS3B* as a key regulator of somatic embryo morphogenesis in peanut	李晓云 Xiaoyun Li, South China Normal University
15:40-16:00	Telomere-to-telomere genome assembly of the elite peanut cultivar Yuhua 15 identifies *YABBY* as a key regulator of pod and seed size	孙子淇 Ziqi Sun, Henan Academy of Agricultural Sciences

Session VII · Genetic Improvement and Sustainable Cultivation
Convener: **Yong Lei** · Venue: Chimelong Hall
Session chairs: **Yong Lei** (16:00–17:00), **Suoyi Han** (17:00–18:00)

Time	Title	Speaker
16:00-16:20	Regulatory theory and techniques for high-efficiency nitrogen utilization throughout the peanut growth cycle	万书波 Shubo Wan, Shandong Academy of Agricultural Sciences
16:20-16:40	Crop design—integration of synthetic biology with plant breeding	Scott Allen Jackson, University of Georgia
16:40-17:00	The improvement and promotion of peanut in saline-alkali land	迟晓元 Xiaoyuan Chi, Shandong Peanut Research Institute
17:00-17:20	Harnessing translational genomics and pre-breeding to build climate-resilient groundnuts	Manish K. Pandey, International Crops Research Institute for the Semi-Arid Tropics
17:20-17:40	The mechanism of sugarcane-peanut intercropping in alleviating peanut bacterial wilt	唐秀梅 Xiumei Tang, Guangxi Academy of Agricultural Sciences
17:40-18:00	Drip irrigation and fertilization strategies shape soil bacterial community and nutrient utilization in summer peanut	刘娟，Juan Liu, Henan Academy of Agricultural Sciences
18:00-20:00	Dinner	

Day 3 · Thursday, 12 November — Morning

Session VIII · Biotic and Abiotic Stress Resistance
Convener: **Shihua Shan** · Venue: Chimelong Hall
Session chairs: **Shihua Shan** (08:00–09:00), **Huaiyong Luo** (09:00–10:00)

Time	Title	Speaker
08:00-08:20	Identification of candidate genes associated with leaf size in peanut (*Arachis hypogaea* L.)	韩锁义 Suoyi Han, Henan Academy of Agricultural Sciences
08:20-08:40	Accelerating genetic gain in African groundnut improvement through genomics-enabled selection, quality assurance, and multi-environment evaluation	Happy Makuru Daudi, International Maize and Wheat Improvement Center (CIMMYT)
08:40-09:00	Analysis of genetic diversity and functional gene discovery for cold tolerance in groundnut	王欣 Xin Wang, Oil Crops Research Institute, CAAS
09:00-09:20	Development of high-oil, salt-tolerant germplasms and breeding of new varieties in peanut	乔利仙 Lixian Qiao, Qingdao Agricultural University
09:20-09:40	Deciphering flavonoid-mediated stress responses and biological mitigation strategies in peanut (*Arachis hypogaea* L.)	Rabia Amir, National University of Sciences and Technology, Islamabad
09:40-10:00	QTL mapping and genetic dissection of key agronomic traits in peanut domestication and breeding	陈光辉 Guanghui Chen, Shandong Peanut Research Institute

Session IX · Processing and Industrial Applications
Convener: **Aimin Shi** · Venue: Chimelong Hall
Session chairs: **Aimin Shi** (10:00–11:00), **Jin Wang** (11:00–12:00)

Time	Title	Speaker
10:00-10:20	Processing-induced interfacial remodeling of peanut oil body emulsions: Mechanisms regulating hydrophobic bioactive delivery	陈复生 Fusheng Chen, Henan University of Technology
10:20-10:40	Impacts of cold plasma with ultrasonic treatment on the structure, functional property and allergenicity of peanut proteins	王进 Jin Wang, Southeast University
10:40-11:00	Advances in dietary lipids and human health	李铎 Duo Li, Qingdao University
11:00-11:20	The impact of food processing on the allergenicity of peanut proteins	陈红兵 Hongbing Chen, Nanchang University
11:20-11:40	Sustainable production of fragrant peanut oil through bio-modulation of precursor formation for flavor intensification	徐学兵 Xuebing Xu, Wilmar (Shanghai) Biotechnology R&D Center
11:40-12:00	Moderate processing of peanut oil & full-chain high-value utilization	张明华 Minghua Zhang, Shandong Jinsheng Group
12:00-14:00	Lunch	

Day 3 · Thursday, 12 November — Afternoon

Session X · Young Scholars Forum
Convener: **Qing Lu** · Venue: Chimelong Hall
Session chairs: **Qianxia Yu** (14:00–15:00), **Mingqing Wang** (15:00–16:00), **Chao Zhong** (16:00–16:30)

Time	Title	Speaker
14:00-14:15	A flexible genotyping platform for peanut breeding	张惠媛 Huiyuan Zhang, MolBreeding Biotechnology
14:15-14:30	Genipin-crosslinked okara nanocellulose-peanut protein conjugates for improved emulsification and *Lactiplantibacillus plantarum* protection	于淼 Miao Yu, Liaoning Academy of Agricultural Sciences
14:30-14:45	Peanut product development and primary processing equipment creation	王明清 Mingqing Wang, Shandong Peanut Research Institute
14:45-15:00	Elucidating flavor formation molecular mechanisms in peanut roasting through multi-omics analysis	向飞 Fei Xiang, Institute of Food Science and Technology, CAAS
15:00-15:15	Alternative splicing mediated by a G-box variant in the *AhWRI1a* promoter confers quantitative regulation of seed oil biosynthesis in peanut	余倩霞 Qianxia Yu, Guangdong Academy of Agricultural Sciences
15:15-15:30	A unique COPII regulator mediates ER-to-symbiosome trafficking essential for nitrogen-fixing symbiosis in peanut	郑召 Zhao Zheng, South China Normal University
15:30-15:45	Fine mapping of *qDPA07.1* and candidate gene identification for pod rot resistance in peanut (*Arachis hypogaea* L.)	李星 Xing Li, Shandong Agricultural University
15:45-16:00	Genetic basis and identification of key genes underlying high-latitude adaptation in peanut	钟超 Chao Zhong, Shenyang Agricultural University
16:00-16:15	Evaluation of phosphorus efficiency and mining of key regulatory genes in peanut germplasm	赵立宸 Lichen Zhao, Shandong Agricultural University
16:15-16:30	Mechanisms and oviposition preferences of *Plodia interpunctella* on different peanut varieties	王晨 Chen Wang, Henan University of Technology
16:30-16:45	Deciphering the low-calcium response in peanut roots via single-cell RNA-seq and ATAC-seq	杨泽茂 Zemao Yang, Hunan Agricultural University
16:45-17:00	Natural variation in *AhRAV1* reveals a negative regulatory mechanism of seed size in peanut	Muhammad Jawad Umer, Guangdong Academy of Agricultural Sciences

Session XI · AAGB Development Forum and launch of the International Collaboration Network
Venue: Chimelong Hall
Session chair: **Xiaoping Chen** (17:00-17:50)

17:50-18:00	**Closing Ceremony**
18:00-20:00	Dinner

Conference Arrival & Accommodation

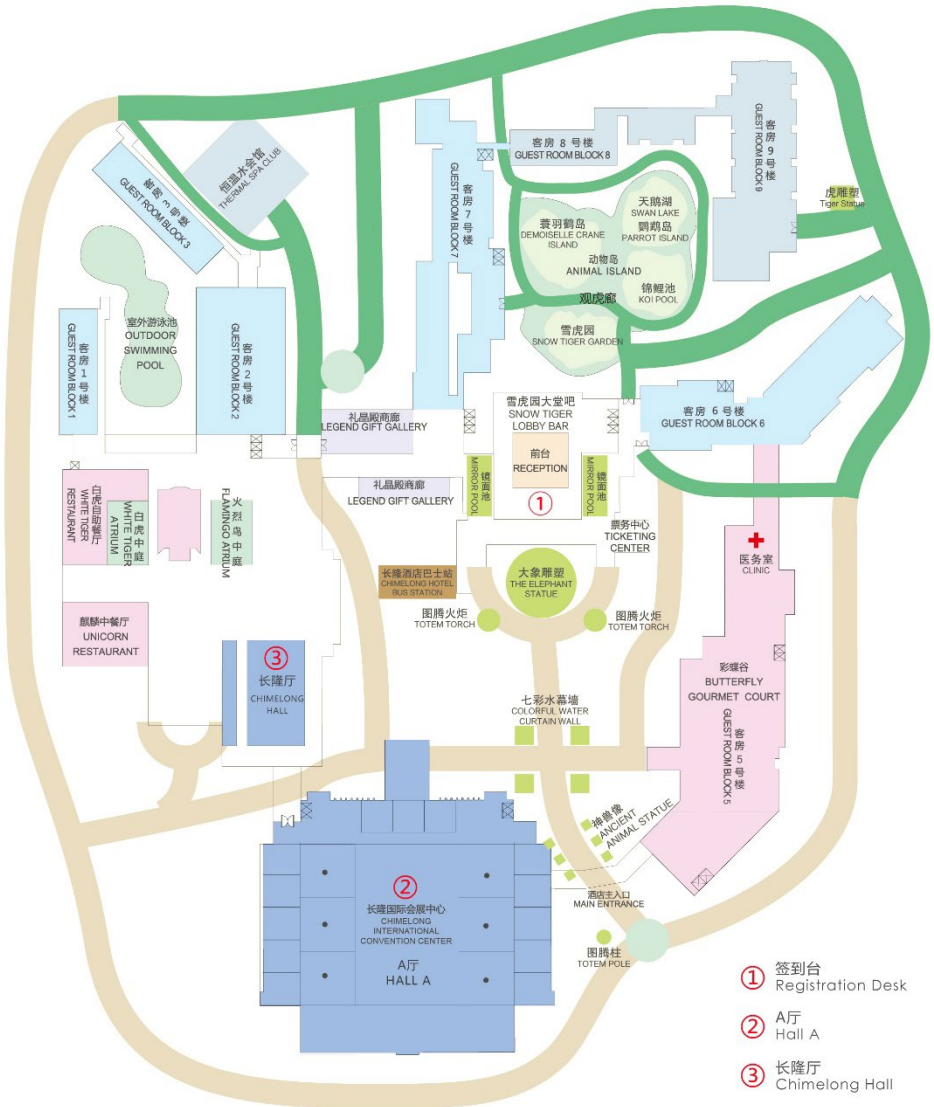
Conference Arrival Venue: Guangzhou Chimelong Hotel

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

Deluxe Single Room (one 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 completing your conference arrival at the registration desk, 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.

Venue Map



Registration Information

• Registration Method

(1) Online Registration

Visit the registration page at https://aagb2026.scievent.com/register.html
or scan the QR code below to complete your registration and payment.

Time: April 3 – October 31, 2026

(2) On-site Registration

After the online registration closes, participants who have not yet registered may register and pay in person at the Conference Registration Desk during the conference.

Time: November 9: 12:00–20:00; November 10 -12: 9:00—17:00

• Registration Fees

Category	Standard
Regular Delegate	$360 USD
Student	$220 USD

Note: 1) Students must provide a valid student ID upon registration;
2) The registration fee does not include accommodation or travel.

• 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.

Participant Communications & Attendance Response Form

• Conference WeChat Group

To ensure timely delivery of program updates, schedule changes and on-site guidance, we have created an official WeChat group for AAGB-2026. Participants are kindly requested to scan the QR code below or visiting the link to join, and to rename their group display name in the format "**Name – Institution**" (e.g., "San Zhang – GDAAS ") after joining.

Note: **1)** The WeChat group is intended for conference communication only and does **not** serve as a registration channel. Registration must still be completed through the online registration system or at the on-site Registration Desk. **2)** Participants who do not use WeChat can get all essential updates from https://aagb2026.scievent.com/notices.html

• Attendance Response Form

Participants are kindly requested to complete the AAGB-2026 Attendance Response Form by scanning the QR code below or clicking the link. Please provide your arrival and departure details as well as any transfer and dietary requirements, so that we can arrange catering, accommodation and airport / railway station transfers accordingly.

The form takes about 2 minutes to complete, **one form per participant**. If you are registering several participants, please submit and reopen the link to complete a separate form for each of them. If your travel plans change, simply resubmit — the latest submission will be used.

Conference WeChat Group
Scan the QR code or click the link below:
https://aagb2026.scievent.com/qr/30b87790ae6c43118f9424f389127a88

Attendance Response Form
Scan the QR code or click the link below:
https://aagb2026.scievent.com/xf/attend/submit/

Contact Us

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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

OCTOBER 2026, Guangzhou