PROGRAM

ACPP | 2024

Changchun, China
August 3–7, 2024

ASIAN CONFERENCE ON PLANT PATHOLOGY 2024

Crop Health in Modern Agriculture

Host Organizer: Chinese Society for Plant Pathology

Co-Organizers: Jilin Agricultural University
Jilin University
Jilin Academy of Agricultural Sciences
Jilin Provincial Agro-Tech Extension Center
Jilin Provincial Association for Science and Technology
Beijing Academy of Agriculture and Forestry Sciences
China Agricultural University
Jilin Society for Plant Pathology
Jilin Society for Plant Protection
Changchun Association for Science and Technology



Asian Association of Societies for Plant Pathology & Chinese Society for Plant Pathology

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1. Invitation to Participate in the Asian Conference on Plant Pathology 2024

Dear Colleagues,

We hope this letter finds you well. On behalf of the organizing committee, we are delighted to invite you to the Asian Conference on Plant Pathology (ACPP) that will be held from August 3rd to 6th, 2024, in Changchun, China.

ACPP hosted by the Asian Association of Societies for Plant Pathology (AASPP), is a prestigious event that brings together researchers, scholars, and practitioners in the field of plant pathology from across Asia and beyond. ACPP 2024 is organized by the Chinese Society for Plant Pathology and promises to be a stimulating and enriching experience, featuring keynote presentations, panel discussions, oral and poster presentations, and networking.

The theme of ACPP 2024 is "Crop Health in Modern Agriculture," reflecting our commitment to fostering dialogue and collaboration towards addressing the challenges facing agricultural productivity and food security in the region.

We believe that your participation will greatly enrich the conference discussions and contribute valuable insights from your organization's expertise in the field of plant pathology. Your involvement will not only enhance the academic exchange but also facilitate networking and collaboration opportunities with fellow researchers and institutions.

Furthermore, with its rich cultural heritage and scenic beauty, Changchun provides an ideal backdrop for the conference, offering participants a unique opportunity to explore the local culture and attractions.

We sincerely hope that you will consider participating in ACPP 2024 and contribute to its success.

We have attached further details pertaining to the conference program, registration process, and accommodation options.

For additional details and registration, please visit the official website: http://acpp2024.tri-think.cn/.

Should you have any inquiries or require additional information, please do not hesitate to contact us.

Thank you for considering our invitation, and we look forward to welcoming plant pathologists from Asia and Australasia to Changchun in August 2024.

Yours sincerely,

Yong-Hwan Lee, You-Liang Peng, Wenxian Sun

2024 ACPP Organizing Committee

The Organizing Committee of ACPP 2024

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2. Conference Agenda

Time	Agenda	Location
Aug 3, 2024 (Beijing time, China)		
10:00-18:00	Registration	Convention Center 1st F
18:00-22:00	Poster Setup	Convention Center 2nd F 201
18:00-20:00	Reception	Convention Center 3rd F 301 & 302
Aug 4, 2024 (Beijing time, China)		
8:00-8:30	Poster Viewing	Convention Center 2nd F 201
8:30-9:00	Opening Ceremony	Convention Center 1st F Main Hall
9:10-10:40	Plenary Lecture I	Convention Center 1st F Main Hall
10:40-11:00	Tea Break	Lobby
11:00-12:00	Plenary Lecture II	Convention Center 1st F Main Hall
12:00-13:15	Lunch	Convention Center 3rd F 301 & 302
14:00-15:40	Concurrent session 1: Plant Pathogenic Fungal & Oomycete Diseases I	Convention Center 3rd F 302
	Concurrent session 2: Disease Control I	Convention Center 3rd F 301
	Concurrent session 3: Plant Pathogenic Bacterial Diseases	Holiday Inn Hotel B1-1
	Concurrent session 4: Plant Pathogenic Virus Diseases I	Convention Center 2nd F 202
	Concurrent session 5: Plant Nematode Diseases	Holiday Inn Hotel B1-2
15:40-16:00	Tea Break	Lobby
16:00-17:40	Concurrent session 1: Plant Pathogenic Fungal & Oomycete Diseases II	Convention Center 3rd F 302
	Concurrent session 2: Disease Control II	Convention Center 3rd F 301
	Concurrent session 3: Plant Pathogens and Mutualists	Holiday Inn Hotel B1-1
	Concurrent session 4: Plant Pathogenic Virus Diseases II	Convention Center 2nd F 202
	Concurrent session 5: Plant Hormone Biology	Holiday Inn Hotel B1-2
18:00-19:00	Dinner	Convention Center 1st F Main Hall
19:00-21:30	Concurrent session 1: Special Session for Student Presentation I	Convention Center 3rd F 302
	Concurrent session 2: Special Session for Student Presentation II	Convention Center 3rd F 301
	Concurrent session 3: Special Session for Student Presentation III	Convention Center 2nd F 202
19:00-21:30	Poster Viewing	Convention Center 2nd F 201
Aug 5, 2024 (Beijing time, China)		
8:00-8:30	Poster Viewing	Convention Center 2nd F 201
8:30-10:10	Concurrent session 1: Plant Pathogenic Fungal & Oomycete Diseases III	Convention Center 3rd F 302
	Concurrent session 2: Disease Control III	Convention Center 3rd F 301
	Concurrent session 3: Plant Immunity and Resistance I	Convention Center 2nd F 202
	Concurrent session 4: Genomics and Phytobiome I	Holiday Inn Hotel B1-1
	Concurrent session 5: Effector Biology I	Holiday Inn Hotel B1-2
10:10-10:20	Tea Break	Lobby
10:20-12:00	Concurrent session 1: Plant Pathogenic Fungal & Oomycete Diseases IV	Convention Center 3rd F 302
	Concurrent session 2: Disease Control IV	Convention Center 3rd F 301
	Concurrent session 3: Plant Immunity and Resistance II	Convention Center 2nd F 202
	Concurrent session 4: Genomics and Phytobiome II	Holiday Inn Hotel B1-1
	Concurrent session 5: Effector Biology II	Holiday Inn Hotel B1-2

12:00-13:15	Lunch	Convention Center 1st F Main Hall
14:00-15:40	Country and Region Report I	Convention Center 1st F Main Hall
15:40-16:00	Tea Break	Lobby
16:00-17:20	Country and Region Report II	Convention Center 1st F Main Hall
17:20-17:30	Introduction of *Phytopathology Research*	Convention Center 1st F Main Hall
17:30-18:10	Chinese Traditional Show	Convention Center 1st F Main Hall
18:20-20:00	Gala Dinner	Convention Center 3rd F 301 & 302
Aug 6, 2024 (Beijing time, China)		
8:00-8:30	Poster Viewing	Convention Center 2nd F 201
8:30-10:00	Plenary Lecture III	Convention Center 1st F Main Hall
10:00-10:20	Tea Break	Lobby
10:20-11:20	Plenary Lecture IV	Convention Center 1st F Main Hall
11:30-12:00	Closing Ceremony	Convention Center 1st F Main Hall
12:00-14:00	Lunch	Convention Center 3rd F 301 & 302

3. List of Plenary Lectures

Aug 4, 2024 Convention Center 1st F Main Hall				
Plenary Lecture I				
Time	Title	Speaker	Organization	Chairs
9:10-9:40	Exploiting intergenic spaces to build durable stress resistance in plants	Jan Leach	Colorado State University, USA	Yasuyuki Kubo, Setsunan University, Japan
9:40-10:10	Molecular battles between *Colletotrichum orbiculare* and cucurbits	Yoshitaka Takano	Kyoto University, Japan	
10:10-10:40	Unleashing plant broad-spectrum disease resistance by disrupting susceptibility genes targeted by effectors conserved in multiple pathogens	Youliang Peng	China Agricultural University, China	
Tea Break				
Plenary Lecture II				
11:00-11:30	Overlapping and distinct pathogen effector recognition specificities conferred by independently evolved NLR proteins in plants	Kee Hoon Sohn	Seoul National University, Korea	Doil Choi, Seoul National University, Korea
11:30-12:00	Importin alpha 2 provides immunity against rice sheath blight pathogen	Binod Bihari Sahu	National Institute of Technology Rourkela, India	

Aug 6, 2024 Convention Center 1st F Main Hall				
Plenary Lecture III				
Time	Title	Speaker	Organization	Chairs
8:30-9:00	Phloem restriction of a plant virus facilitates insect transmission	Xueping Zhou	Chinese Academy of Agricultural Sciences, China	Kook-Hyung Kim, Seoul National University, Korea
9:00-9:30	Tomato rhizosphere microbiota and syntrophic microbial interactions for bacterial wilt management	Seon-Woo Lee	Dong-A University, Korea	
9:30-10:00	Mitigation of defense-growth tradeoff through damage-associated peptide receptor PEPR in plants	Yusuke Saijo	Nara Institute of Science and Technology, Japan	
Tea Break				
Plenary Lecture IV				
10:20-10:50	Basic genetic mechanisms in bacterial diseases of plants: Can basic research inform crop improvement?	Frank White	University of Florida, USA	Yuanchao Wang, Nanjing Agricultural University, China
10:50-11:20	The future of plant health: The global plant health assessment	Serge Savary	Editor-in-Chief of Food Security, France	

4. List of Concurrent sessions

Aug 4, 2024 Convention Center 3rd F 302				
Concurrent session 1: Plant Pathogenic Fungal & Oomycete Diseases I				
Time	Title	Speaker	Organization	Chairs
14:00-14:20	Regulatory mechanisms underlying mating and sexual development in *Fusarium graminearum*: From a physical cue to gene regulation	Sung-Hwan Yun	Soonchunhyang University, Korea	Jun Liu, China Agricultural University, China Kyoung Su Kim, Kangwon National University, Korea
14:20-14:40	A forward genetic screen in *Sclerotinia sclerotiorum*: Finding the most unexpected	Xin Li	University of British Columbia, Canada	
14:40-15:00	Niemann-Pick Type C (NPC) proteins are required for plant infection of *Colletotrichum orbiculare*: A perspective of fungal model system for the human NPC autosomal recessive lysosomal disorder	Yasuyuki Kubo	Setsunan University, Japan	
15:00-15:20	The occurrence and control of *Fusarium* diseases of maize	Wende Liu	Chinese Academy of Agricultural Science, China	
15:20-15:40	Screening wheat and its wild relatives for resistance to the eyespot pathogens *Oculimacula yallundae* and *O. acuformis*	Timothy D. Murray	Washington State University, USA	
Tea Break				
Concurrent session 1: Plant Pathogenic Fungal & Oomycete Diseases II				
16:00-16:20	Gene silencing underpins host specialization in late blight pathogen lineage	Suomeng Dong	Nanjing Agricultural University, China	Yongli Qiao, Shanghai Normal University, China Motoaki Tojo, Osaka Metropolitan University, Japan
16:20-16:40	Low-pH solutions can effectively suppress root rot in hydroponically grown Welsh onion caused by *Pythium* spp., which do not form sexual structures	Motoaki Tojo	Osaka Metropolitan University, Japan	
16:40-17:00	Screening baby leaf salad greens for downy mildew resistance	Shunping Ding	California Polytechnic State University, USA	
17:00-17:20	The interaction between *Peronophythora litchii* cell wall degrading enzyme and host immunity	Guanghui Kong	South China Agricultural University, China	
17:20-17:40	Plant-Oomycete interactions in the apoplast	Yan Wang	Nanjing Agricultural University, China	

Aug 4, 2024 Convention Center 3rd F 301				
Concurrent session 2: Disease Control I				
Time	Title	Speaker	Organization	Chairs
14:00-14:20	Fungicide resistance monitoring and resistance mechanisms of *Botrytis cinerea* from strawberry in Korea	Hyunkyu Sang	Chonnam National University, Korea	Xili Liu, China Agricultural University, China Kwang Hyung Kim, Seoul National University, Korea
14:20-14:40	Molecular mechanisms of resistance to isoprothiolane in *Magnaporthe oryzae*	Chaoxi Luo	Huazhong Agricultural University, China	
14:40-15:00	The occurrence, pathogen diversity and prevention and control techniques of anthracnose in *Euonymus japonicus*	Wentao Qin	Beijing Academy of Agriculture and Forestry Sciences, China	
15:00-15:20	1,2,3-triazoles derivatives inhibit appressorium formation of the rice blast fungus by targeting D-lactic acid dehydrogenase	Jun Yang	China Agricultural University, China	
15:20-15:40	Activity and resistance-related point mutation in target protein ORP1 of the OSBPI fungicides in *Phytophthora* spp.	Jianqiang Miao	Northwest Agriculture and Forestry University, China	
Tea Break				
Concurrent session 2: Disease Control II				
16:00-16:20	Discovery of virus cross-kingdom transmission and its potential biocontrol application	Liying Sun	Northwest Agriculture and Forestry University, China	Daohong Jiang, Huazhong Agricultural University, China Hiromitsu Moriyama, Tokyo University of Agriculture and Technology, Japan
16:20-16:40	Microbiome homeostasis on rice leaves is regulated by a precursor molecule of lignin biosynthesis	Yong Liu	Hunan Academy of Agricultural Sciences, China	
16:40-17:00	Effective knowledges of mycoviruses in fungi, lower eukaryote and plants	Hiromitsu Moriyama	Tokyo University of Agriculture and Technology, Japan	
17:00-17:20	Plant modifies fungal non-self recognition to facilitate mycovirus transmission	Jiatao Xie	Huazhong Agricultural University, China	
17:20-17:40	Exploring *Bacillus* sp. strain 55-7: A dual-function bioagent for sustainable agriculture in Thailand	Lakha Salaipeth	King Mongkut's University of Technology Thonburi, Thailand	

Aug 4, 2024 Holiday Inn Hotel B1-1				
Concurrent session 3: Plant Pathogenic Bacterial Diseases				
Time	Title	Speaker	Organization	Chair
14:00-14:20	Different pathogenesis by catalase activities in *Erwinia amylovora*	Duck-Hwan Park	Kangwon National University, Korea	Wei Qian, Chinese Academy of Sciences, China
14:20-14:40	Kill the enemy, bacteria predate pathogenic fungi by extracellular vesicles	Wei Qian	Chinese Academy of Sciences, China	
14:40-15:00	The designer TAL effector: A potent biotechnological tool for exploring plant bacterial disease susceptibility and gene regulation networks	Zhao Peng	Jilin Agricultural University, China	
15:00-15:20	PQIs inhibit the *phc* quorum sensing system in *Ralstonia solanacearum* species complex and attenuate its virulence	Kenji Kai	Osaka Metropolitan University, Japan	Kenji Kai, Osaka Metropolitan University, Japan
15:20-15:40	Molecular and phenotypic characterization of *Xanthomonas oryzae* pv. *oryzae* races from Bangladesh	Mohammad Rashidul Islam	Bangladesh Agricultural University, Bangladesh	
Tea Break				

Aug 4, 2024 Holiday Inn Hotel B1-1				
Concurrent session 3: Plant Pathogens and Mutualists				
Time	Title	Speaker	Organization	Chair
16:00-16:20	Plant immunity under suboptimal conditions	Jonghum Kim	Pohang University of Science and Technology, Korea	Kenichi Tsuda, Huazhong Agricultural University, China
16:20-16:40	Plant immunity turns harmful bacteria into beneficial by suppressing virulence	Kenichi Tsuda	Huazhong Agricultural University, China	
16:40-17:00	Molecular mechanisms underlying fungal beneficial plant infection strategies under varying nutrient conditions together with a microbial partner	Kei Hiruma	The University of Tokyo, Japan	
17:00-17:20	Endophyte of grasses - a fungus that evolved as a plant protector	Takemoto Daigo	Nagoya University, Japan	Jonghum Kim, Pohang University of Science and Technology, Korea
17:20-17:40	Cholesterol-chitosan based emulsification and nanolyzation of daidzin enhanced the immunity of pepper seedlings against *Phytophthora capsici* by activating apoptotic death in the invading pathogen	Justice Norvienyeku	Hainan University, China	

Aug 4, 2024 Convention Center 2nd F 202				
Concurrent session 4: Plant Pathogenic Virus Diseases I				
Time	Title	Speaker	Organization	Chairs
14:00-14:20	A parasitic RNA of cucumber mosaic virus: short non-coding RNA that promotes wing formation of its insect vector	Hangil Kim	Kangwon National University, Korea	Fangfang Li, Chinese Academy of Agricultural Science, China Salit Supakitthanakorn, Kasetsart University, Thailand
14:20-14:40	Complex interactions between insect-borne rice viruses and their vectors	Taiyun Wei	Fujian Agriculture and Forestry University, China	
14:40-15:00	Rapid detection of tomato necrotic ringspot virus (TNRV) using colorimetric one-step reverse transcription loop-mediated isothermal amplification (RT-LAMP) technique	Salit Supakitthanakorn	Kasetsart University, Thailand	
15:00-15:20	6A-dependent defense and anti-defense mechanism in plant-virus interaction	Chengguo Duan	Chinese Academy of Sciences, China	
15:20-15:40	Barley yellow dwarf virus 17K protein targets HvTHIC and disrupts thiamine synthesis to facilitate viral infection	Yan Shi	Henan Agricultural University, China	
Tea Break				
Concurrent session 4: Plant Pathogenic Virus Diseases II				
16:00-16:20	Incidence of viral diseases in vegetable crops in Southeast Asian countries by metatranscriptomic analysis	Jisuk Yu	Seoul National University, Korea	Taiyun Wei, Fujian Agriculture and Forestry University, China Jisuk Yu, Seoul National University, Korea
16:20-16:40	Arms race on viral RNA beyond RNAi	Fangfang Li	Chinese Academy of Agricultural Science, China	
16:40-17:00	The distributed characterization of orthotospovirus particles in the host plant cells	Zhongkai Zhang	Yunnan Academy of Agricultural Science, China	
17:00-17:20	Plant rhabdovirus regulates activity of insect vectors for efficient transmission	Xianbing Wang	China Agricultural University, China	
17:20-17:40	Virus transmission mediated by insect salivary proteins to plant phloem	Qian Chen	Fujian Agriculture and Forestry University, China	

Aug 4, 2024 Holiday Inn Hotel B1-2				
Concurrent session 5: Plant Nematode Diseases				
Time	Title	Speaker	Organization	Chairs
14:00-14:20	Agricultural important nematode diseases integrated nematode managements (INM)	Deliang Peng	Chinese Academy of Agricultural Science, China	Hongli Ji, Sichuan Academy of Agricultural Sciences, China Deliang Peng, Chinese Academy of Agricultural Science, China
14:20-14:40	Isolation, identification and nematocidal activity of endophytic bacteria GDW1 and T3-2-1 from pine wood nematode -resistant masson pine (*Pinus massoniana*)	Xinrong Wang	South China Agricultural University, China	
14:40-15:00	Molecular mechanism of interactions between root-knot nematodes and host plants	Jianlong Zhao	Chinese Academy of Agricultural Science, China	
15:00-15:20	Identification and characterization of G16B09-like effector family from *Heterodera avenae*	Qian Liu	China Agricultural University, China	
15:20-15:40	Occurrence and control of *Aphelenchoides besseyi* in China	Hongli Ji	Sichuan Academy of Agricultural Sciences, China	
Tea Break				

Aug 4, 2024 Holiday Inn Hotel B1-2				
Concurrent session 5: Plant Hormone Biology				
Time	Title	Speaker	Organization	Chairs
16:00-16:20	NLR-mediated antiviral immunity	Xiaorong Tao	Nanjing Agricultural University, China	Yuelin Zhang, Sichuan University, China Xiaorong Tao, Nanjing Agricultural University, China
16:20-16:40	Survive from wounding damage-peptide REF1 is a local wound signal promoting plant regeneration	Chuanyou Li	Shandong Agricultural University, China	
16:40-17:00	Updates on salicylic acid biosynthesis and signaling	Yuelin Zhang	Sichuan University, China	
17:00-17:20	ABCG18 forms homodimer and heterodimerizes with ABCG1 mediate JA transport for resistance to *Botrytis cinerea* in *Arabidopsis*	Yina Jiang	East China Normal University, China	
17:20-17:40	The metabolic regulation of jasmonic acid in plant defense	Lijing Liu	Shandong University, China	

Aug 4, 2024 Convention Center 3rd F 302				
Concurrent session 1: Special Session for Student Presentation I				
Time	Title	Speaker	Organization	Chairs
19:00-19:15	Transcriptome analysis reveals high-temperature response during appressorium formation of *Pyricularia oryzae*	Sutthiphai Thanathip	Kasetsart University, Thailand	Yong Wang, Guizhou University, China; Daowan Lai, China Agricultural University, China
19:15-19:30	The secreted feruloyl esterase of *Verticillium dahliae* modulates host immunity via degradation of GhDFR	Yajuan Wang	Northwest Agriculture and Forestry University, China	
19:30-19:45	Anaplerotic roles of pyruvate carboxylase in plant pathogenic fungi	Soobin Shin	Seoul National University, Korea	
19:45-20:00	A dual function *Rhizoctonia solani* AA9 lytic polysaccharide monooxygenase in promoting rice sheath blight infection and triggering plant immunity	Jie Qin	Chinese Academy of Sciences, China	
20:00-20:15	Pathogenicity chromosome of *Fusarium oxysporum* f. sp. *cepae*	Kosei Sakane	Tottori University, Japan	
20:15-20:30	Virulence dynamics (2007-2021) and population structure of wheat leaf rust (*Puccinia tritici*) in China	Hongfu Li	Chinese Academy of Agricultural Sciences, China	
20:30-20:45	Cell type-specific responses to fungal infection in plants revealed by single-cell transcriptomics	Bozeng Tang	The Sainsbury Laboratory, United Kingdom	
20:45-21:00	*Fusarium*-produced vitamin B6 promotes the evasion of soybean resistance by *Phytophthora sojae*	Xiaoyi Zhang	Nanjing Agricultural University, China	
21:00-21:15	World-wide characterisation of guided entry of tail-anchored proteins in *Magnaporthe oryzae*	Abah Felix	Fujian Agriculture and Forestry University, China	
21:15-21:30	Specific research on the specificity of the fungal transcription factor Sge1	Zheng Luo	Beijing Forestry University, China	

Aug 4, 2024 Convention Center 3rd F 301				
Concurrent session 2: Special Session for Student Presentation II				
Time	Title	Speaker	Organization	Chairs
19:00-19:15	Flagellar motility of *Pseudomonas syringae* pv. *actinidiae* biovar 3 contributes to bacterial infection through stomata	Giyu Usuki	University of Tsukuba, Japan	Bo Li, Huazhong Agricultural University, China Wei Zhang, Beijing Academy of Agriculture and Forestry Sciences, China
19:15-19:30	The triose phosphate/phosphate translocator exports photosynthetic glyceraldehyde 3-phosphate from chloroplasts to trigger antimicrobial immunity in plants	Dengpan Zuo	China Agricultural University, China	
19:30-19:45	Discovering the underground ecology of *Tricholoma matsutake* habitat using Whole-Genome Shotgun sequencing	In-Hyup Bae	Seoul National University, Korea	
19:45-20:00	Transcriptome analysis and functional verification reveal the roles of copper in resistance to potato virus Y infection in tobacco	Huiyan Guo	Shenyang Agricultural University, China	
20:00-20:15	Virulence mechanisms of the Jujube Witches' Broom phytoplasma effector SJP39	Shuang Yang	The Sainsbury Laboratory, United Kingdom	
20:15-20:30	Recognition of different microbial-derived glycoside hydrolase family 12 proteins by a receptor-like protein	Mengzhu Zeng	Nanjing Agricultural University, China	
20:30-20:45	Occurrence of a deletion in FLS2 and its expansion after domestication caused global dissemination of melon cultivars defective in flagellin recognition	Chujia Jin	Kyoto University, Japan	
20:45-21:00	Novel function of the PsDMAP1 protein in regulating the growth and pathogenicity of *Phytophthora sojae*	Fan Zhang	China Agricultural University, China	
21:00-21:15	Sensitivity of dimethomorph and gene diversity in *Phytophthora colocasiae*	Linhan Li	Fujian Agriculture and Forestry University, China	
21:15-21:30	A pair of E3 ubiquitin ligases modulate immunity and flowering by targeting different ELF3 proteins in rice	Xiao Xu	Chinese Academy of Agricultural Sciences, China	

Aug 4, 2024 Convention Center 2nd F 202				
Concurrent session 3: Special Session for Student Presentation III				
Time	Title	Speaker	Organization	Chairs
19:00-19:15	Determining the minimum data size for the development of artificial neural network-based prediction models for rice pests in Korea	Wonjae Jeong	Seoul National University, Korea	Hao Feng, Northwest Agriculture and Forestry University, China Xiangling Fang, Lanzhou University, China
19:15-19:30	Diversity of ascomycota in Jilin: Introducing novel woody litter taxa in *Cucurbitariaceae*	Wenxin Su	Jilin Agricultural University, China	
19:30-19:45	LysR-type transcriptional regulator contributes to *Pseudomonas cannabina* pv. *alisalensis* virulence by responding to nutrient conditions and functioning as a global regulator	Kanon Yamamoto	University of Tsukuba, Japan	
19:45-20:00	Thrive in adversity: Heat damage trigger root releasing nucleotides to recruit rhizo-microbiota for progeny saving under multiple stresses	Haijiao Liu	China Agricultural University, China	
20:00-20:15	Morphological characterization and genetic diversity of rice blast fungus in Vietnam using Indel markers and avirulence gene sequence variations	Thuy Nguyen Thi Xuan	Kasetsart University, Thailand	
20:15-20:30	The functional complementarity of the stem core microbiome assists maize in resisting stalk rot	Da Li	Chinese Academy of Sciences, China	
20:30-20:45	A fungal transcription factor BOT6 transitions a beneficial root endophyte into an anthracnose leaf pathogen	Ren Ujimatsu	University of Tokyo, Japan	
20:45-21:00	Plant vaccines promote the optimization of the rice microecological environment and research on the mechanism of resistance to rice false smut	Yilu Chen	Huazhong Agricultural University, China	
21:00-21:15	Manipulation of citrus native microbiome for preventing dysbiosis against citrus Huanglongbing	Ayesha Ahmed	Yunnan Agricultural University, China	
21:15-21:30	Antifungal effect of *Bacillus velezensis* ZN-S10 against plant pathogen *Colletotrichum changpingense* and its inhibition mechanism	Qingling Ye	Zhejiang A & F University, China	

Aug 5, 2024 Convention Center 3rd F 302				
Concurrent session 1: Plant Pathogenic Fungal & Oomycete Diseases III				
Time	Title	Speaker	Organization	Chairs
8:30-8:50	Unknown within the known: Nucleolus in the rice blast fungus	Junhyun Jeon	Yeungnam University, Korea	Wende Liu, Chinese Academy of Agricultural Science, China Tofazzal Islam, Bangabandhu Sheikh Mujibur Rahman Agricultural University, Bangladesh
8:50-9:10	Transcriptional regulation of stress tolerance and fungal virulence in *Fusarium graminearum*	Hokyoung Son	Seoul National University, Korea	
9:10-9:30	Single-cell and spatial transcriptomics reveals a stereoscopic response of rice leaf cells to *Magnaporthe oryzae* infection	Jun Liu	China Agricultural University, China	
9:30-9:50	Point-of-care diagnosis and molecular breeding for tackling wheat blast disease	Tofazzal Islam	Bangabandhu Sheikh Mujibur Rahman Agricultural University, Bangladesh	
9:50-10:10	International surveillance of southern corn rust pathogens: insights into dispersal and virulence variation	Junmin Liang	Chinese Academy of Sciences, China	
Tea Break				
Concurrent session 1: Plant Pathogenic Fungal & Oomycete Diseases IV				
10:20-10:40	Trehalose metabolism in regulating *Phytophthora* root and stem rot in soybean	Yongli Qiao	Shanghai Normal University, China	Suomeng Dong, Nanjing Agricultural University, China Soohyun Oh, Seoul National University, Korea
10:40-11:00	Contribution of oxidative enzymes in appressorium-mediated infection of *Colletotirchum orbiculare*	Sayo Kodama	Setsunan University, Japan	
11:00-11:20	Effector-mediated nonhost resistance against *Phytophthora* spp.	Soohyun Oh	Seoul National University, Korea	
11:20-11:40	Hunt for crop resistance genes from wild plants	Xiao Lin	Chinese Academy of Sciences, China	
11:40-12:00	Sequence diversification of plant small RNA-generating loci contributes to plant immunity	Yingnan Hou	Shanghai Jiao Tong University, China	

Aug 5, 2024 Convention Center 3rd F 301				
Concurrent session 2: Disease Control III				
Time	Title	Speaker	Organization	Chairs
8:30-8:50	Point mutations in vacuolar H^+-ATPase subunit-α confer resistance of *Phytophthora capsici* to fluopicolide and fluopimomide	Xili Liu	China Agricultural University, China	Chaoxi Luo, Huazhong Agricultural University, China Matthias Hahn, University of Kaiserslautern-Landau, Germany
8:50-9:10	To kill or to be killed: Infection strategies of *Botrytis*, and perspectives for its control	Matthias Hahn	University of Kaiserslautern-Landau, Germany	
9:10-9:30	How can we get novel target proteins of fungicides?	Yiping Hou	Nanjing Agricultural University, China	
9:30-9:50	Development of Loop-Mediated Isothermal Amplification (LAMP) based assays for rapid detection of plant pathogenic fungal and bacterial diseases	Quoc Nguyen	Nong Lam University, Vietnam	
9:50-10:10	Genetic mapping of resistant genes to *Corynespora cassiicola* in cucumber	Changlong Wen	Beijing Academy of Agriculture and Forestry Science, China	
Tea Break				
Concurrent session 2: Disease Control IV				
10:20-10:40	Development of *Streptomyces murinus* JS029 as a potential biological control agent for soil-borne diseases	Sook-Young Park	Sunchon National University, Korea	Yun Chen, Zhejiang University, China Sook-Young Park, Sunchon National University, Korea
10:40-11:00	Indigenous endophytes are the hope of ending citrus Huanglongbing disease	Yueqiu He	Yunnan Agricultural University, China	
11:00-11:20	Interactions between biocontrol bacteria and *Fusarium graminearum*	Yun Chen	Zhejiang University, China	
11:20-11:40	Metagenomic guideline for isolation and construction of a plant growth-promoting *Bacillus* consortium against sheath blight disease in rice (*Oryza sativa* L.) caused by *Rhizoctonia solani*	Chatsuda Sakdapetsiri	Kasetsart University, Thailand	
11:40-12:00	Pathogenicity analyses of rice blast fungus (*Pyricularia oryzae*) from Japonica rice area of northeast China	Jichun Wang	Jilin Academy of Agricultural Sciences, China	

Aug 5, 2024 Convention Center 2nd F 202				
Concurrent session 3: Plant Immunity and Resistance I				
Time	Title	Speaker	Organization	Chairs
8:30-8:50	Cytoplasmic Ca^{2+} influx mediates ferroptosis during rice-*M. oryzae* interactions	Namsoo Jwa	Sejong University, Korea	Yan Li, Sichuan Agricultural University, China Namsoo Jwa, Sejong University, Korea
8:50-9:10	RNA helicases modulate powdery mildew resistance via phase-separation that is manipulated by a *B. graminis* effector	Qianhua Shen	Chinese Academy of Sciences, China	
9:10-9:30	The lignin barrier spatially restricts invading pathogens in plant immunity	Ohkmae K. Park	Korea University, Korea	
9:30-9:50	The regulatory mechanisms by which miRNAs coordinate rice disease resistance with yield traits	Yan Li	Sichuan Agricultural University, China	
9:50-10:10	Ambient temperature and humidity regulate the interaction between rice and *Magnaporthe oryzae*	Yanjun Kou	China National Rice Research Institute, China	
Tea Break				
Concurrent session 3: Plant Immunity and Resistance II				
10:20-10:40	Ubiquitination-mediated rice immunity against *Magnaporthe oryzae*	Yuese Ning	Chinese Academy of Agricultural Sciences, China	Qianhua Shen, Chinese Academy of Sciences, China Yuese Ning, Chinese Academy of Agricultural Sciences, China
10:40-11:00	OsMPK5-OsDRB pathway negatively regulates rice resistance	Kabin Xie	Huazhong Agricultural University, China	
11:00-11:20	Biomolecular condensates modulate resistance to Fusarium head blight in wheat	Gang Li	Nanjing Agricultural University, China	
11:20-11:40	Molecular basis of anthracnose leaf blight resistance in maize	Vijai Bhadauria	China Agricultural University, China	
11:40-12:00	The function study of rice calcium-dependent protein kinases in innate immunity	Jiyang Wang	China Agricultural University, China	

Aug 5, 2024 Holiday Inn Hotel B1-1				
Concurrent session 4: Genomics and Phytobiome I				
Time	Title	Speaker	Organization	Chairs
8:30-8:50	Microbial genomics and metagenomics for plant health and disease	Jihyun Kim	Yonsei University, Korea	Mengceng Wang, Zhejiang University, China Jihyun Kim, Yonsei University, Korea
8:50-9:10	Crop protection activity and colonization behavior of *Allorhizobium vitis* VAR03-1, a biocontrol agent for grapevine grown gall	Noutoshi Yoshiteru	Okayama University, Japan	
9:10-9:30	Utilizing seed endophytes to enhance tomato plant health	Kihyuck Choi	Dong-A University, Korea	
9:30-9:50	Leaf microbiome signaling switches fungal pathogenicity	Mengceng Wang	Zhejiang University, China	
9:50-10:10	Competition for nutrient niches within the microbiota in apple flowers	Hyun Gi Kong	Chungbuk National University, Korea	
Tea Break				
Concurrent session 4: Genomics and Phytobiome II				
10:20-10:40	Genome mining of phytopathogenic fungi for pharmacological products	Tom Hsiang	University of Guelph, Canada	Yasufumi Hikichi, Kochi University, Japan Tom Hsiang, University of Guelph, Canada
10:40-11:00	Evidences for nitrogen metabolism governing conidiation and virulence of *Cochliobolus heterostrophus*	Xianghui Zhang	Jilin University, China	
11:00-11:20	Infection routes of *Ralstonia pseudosolanacearum* strain OE1-1 in tomato roots and its quorum sensing	Yasufumi Hikichi	Kochi University, Japan	
11:20-11:40	Population genetic analysis of rice blast populations in Thailand from whole-genome sequences	Worrawit Suktrakul	Kasetsart University, Thailand	
11:40-12:00	Systematic analysis of Cys2-His2 zinc finger transcription factors reveals novel insights into fruit anthracnose disease caused by *Colletotrichum scovillei*	Teng Fu	Kangwon National University, Korea	

Aug 5, 2024 Holiday Inn Hotel B1-2				
Concurrent session 5: Effector Biology I				
Time	Title	Speaker	Organization	Chairs
8:30-8:50	The *Magnaporthe oryzae* snodprot1 homolog (MSP1) directly interacts with a putative LRR receptor (MRH, MSP1 binding receptor) to induce PAMP-triggered immunity in rice	Sun Tae Kim	Pusan National University, Korea	Xiaojie Wang, Northwest Agriculture and Forestry University, China Alberto Macho, Chinese Academy of Sciences, China
8:50-9:10	Virulence mechanism of rice false smut fungal effector UvCBP1/UvGH18.1	Guobang Li	Sichuan Agricultural University, China	
9:10-9:30	Manipulation of plant cellular functions by the bacterial pathogen *Ralstonia solanacearum*	Alberto Macho	Chinese Academy of Sciences, China	
9:30-9:50	*Fusarium graminearum* effectors target wheat proteins to facilitate infection	Cuijun Zhang	Chinese Academy of Agricultural Sciences, China	
9:50-10:10	Targeting *Magnaporthe oryzae* effector MoErs1 and host papain-like protease OsRD21 interaction to combat rice blast	Muxing Liu	Nanjing Agricultural University, China	
Tea Break				
Concurrent session 5: Effector Biology II				
10:20-10:40	Effector tactics and recognition via calcium channels	Joo Hyun Lee	Seoul National University, Korea	Wangsheng Zhu, China Agricultural University, China Joo Hyun Lee, Seoul National University, Korea
10:40-11:00	A nucleus-targeting effector of wheat stripe rust disturbs plant phase separation to manipulate host immunity	Chunlei Tang	Northwest Agriculture and Forestry University, China	
11:00-11:20	An *Ustilaginoidea virens* glycoside hydrolase 42 protein is an essential virulence factor and elicits plant immunity as a PAMP	Dan Zhao	Jilin Agricultural University, China	
11:20-11:40	Virulence mechanisms of type III secreted effectors in *Xanthomonas oryzae* pv. *oryzicola*	Shanzhi Wang	Southwest University, China	
11:40-12:00	Functional characterization of effector in *Fusarium pseudograminearum*	Haiyang Li	Henan Agricultural University, China	

5. List of Country and Region Reports

Aug 5, 2024 📍 Convention Center 1st F Main Hall				
Country and Region Report I				
Time	Title	Speaker	Organization	Chairs
14:00-14:20	Country report on plant disease status and plant pathology activities in South Korea	Chang-Sik Oh	Seoul National University, Korea	Jun Fan, China Agricultural University, China
14:20-14:40	Social implementation activities related to plant pathology in Japan	Kazuyuki Hiratsuka	Yokohama National University, Japan	
14:40-15:00	Emerging crop diseases in China and their management	Wenxian Sun	Jilin Agricultural University, China	
15:00-15:20	Country report on plant disease status in Australia	Andrew Geering	The University of Queensland, Australia	
15:20-15:40	Country report of plant pathology activities in Republic of Singapore	Sek Man Wong	National University of Singapore, Singapore	
Tea Break				
Country and Region Report II				
16:00-16:20	Studies on the common root rot of wheat and identification of its causal agents in the Aktobe and Almaty regions	Yerlan Dutbayev	Kazakh National Agrarian Research University, Kazakhstan	Sek Man Wong, National University of Singapore, Singapore
16:20-16:40	The Vietnamese Phytopathological Society: Status of plant diseases and available technologies for sustainable management in Vietnam	Pham Van Du	The Phytopathological Society of Vietnam, Vietnam	
16:40-17:00	Persistent threat of emerging diseases in Bangladesh: need of climate resilient management system	Mohammad Salahuddin Mahmood Chowdhury	Sher-e-Bangla Agricultural University, Bangladesh	
17:00-17:20	*Candidatus* Liberibacter solanacearum and *Xylella fastidiosa* outbreak in Israel	Abed Gera	Agricultural Research Organization, the Volcani Center, Israel	

6. Introduction of *Phytopathology Research*



Aims and Scope

Phytopathology Research is an open access journal dedicated to advancing our understanding of plant diseases and developing effective environment-friendly measures for disease control.

The journal publishes fundamental and applied research on broad aspects of plant diseases. These include but are not limited to genetics and molecular biology of plant disease resistance or susceptibility, molecular analysis of relevant traits in agriculturally important phytopathogens, the ecology of pathogens and plant-associated beneficial micro-organisms, disease etiology, epidemiology and disease management, and technical innovations that advance the phytopathology research. Articles are selected based on novelty, importance, scientific validity, and interest to the readers.

Indexing Services

All articles published in *Phytopathology Research* are included in: BIOSIS, Baidu, Biological Abstracts, CAB Abstracts, CLOCKSS, CNKI, CNPIEC, Current Contents/ Agriculture, Biology & Environmental Sciences, DOAJ, Dimensions, EBSCO Discovery Service, Google Scholar, Meta, Naver, OCLC WorldCat Discovery Service, Portico, ProQuest ExLibris Primo, ProQuest ExLibris Summon, SCImago, SCOPUS, Science Citation Index Expanded (SCIE), TD Net Discovery Service, Wanfang

2023 Citation Impact

3.2 - 2-year Impact Factor
3.7 - 5-year Impact Factor

2023 Speed

7 days submission to first editorial decision for all manuscripts (Median)
125 days submission to accept (Median)

Article Processing Charges

The publication costs for *Phytopathology Research* are covered by Chinese Society for Plant Pathology so authors do not need to pay an article-processing charge.

Wechat: PR 植物病理学研究
Twitter: @PhytopatholRes
E-mail: phytopr@cau.edu.cn
Website: https://phytopatholres.biomedcentral.com/

7. Kind Reminder

(1) Guidelines

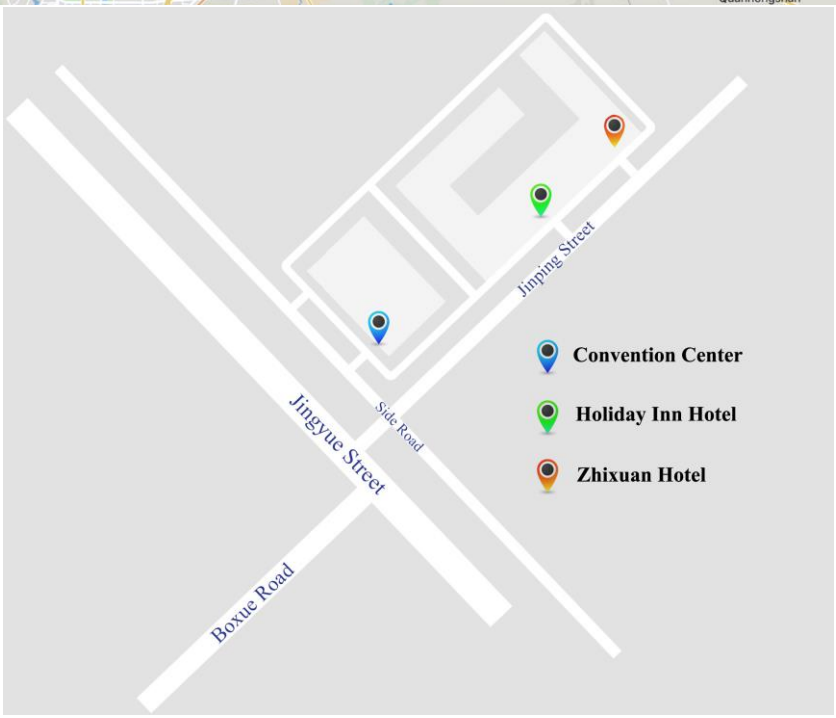
- Registration Time: Aug 3, 2024, 10:00-18:00.
- Registration Place: Holiday Inn Convention Center 1st F.
- Speakers for oral presentations are required to upload their Powerpoint slides to the ACPP staff upon registration for testing purposes. The recommended size for the Powerpoint is widescreen (16:9).
- The posters are displayed in Convention Center 2nd F 201 during 8:00 on Aug. 4 to 12:00 on Aug. 6. Posters will be collected by ACPP staff if they are not taken away after12:00 on Aug. 6.
- Please arrive 15 minutes earlier for the conference, and turn off your mobile phone or set it to vibrate.
- No smoking in the venue.

(2) Venues & Hotels

Venues:

- Holiday Inn Convention Center (Changchun Jingyue).
- Holiday Inn Hotel (Changchun Jingyue).
- Address: No. 3070 Jingyue Street, Jingyue District, Changchun City, Jilin Province, 130000 P. R. China.
- Note: Plenary lectures and most concurrent sessions will be in Convention Center, and part of concurrent sessions will be in Holiday Inn Hotel B1-1 & B1-2 (Hotel Basement). The Convention Center is adjacent to the Hotel, and the two buildings are interconnected via an underground passage.


From **Changchun Longjia International Airport**
(Approximately 40 mins by Taxi to Holiday Inn Changchun Jingyue)
From **Changchun Railway Station**
(Approximately 50 mins by Taxi to Holiday Inn Changchun Jingyue)
Holiday Inn
Changchun Longjia International Airport
Changchun Luyuan Economic Development Zone
Kuancheng District
Tuanshan
Beihu
Beiwan
Xinglongshan
Balibao
Yuanda
Linyuan
Tiexi
Qunying
Changqing
Zhengyang
Luyuan
Dongfeng
Huxi
Chaoyang
Nanhu
Nanguan
Erdao
Shiji
Hongcheng
Huizhan
Yingjun
Quanyan
Quannongshan
Mingzhu
Yitong River
Development Area Stadium
Eurasia Shopping Mall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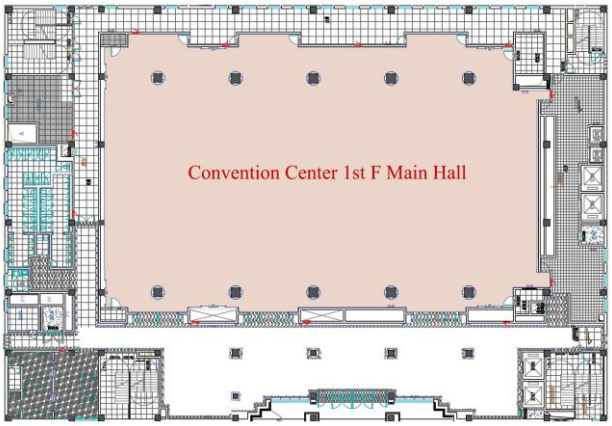
Convention Center
Holiday Inn Hotel
Zhixuan Hotel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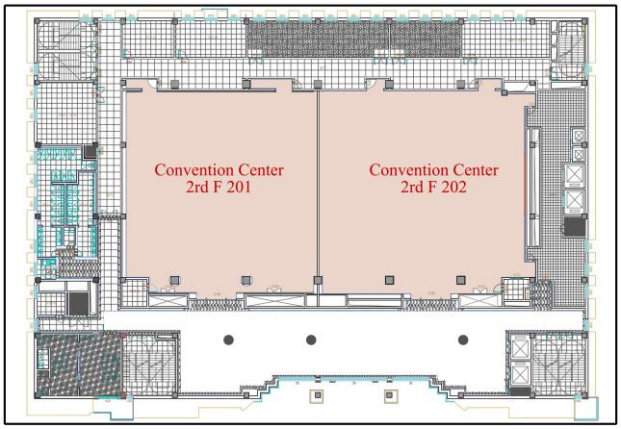
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2rd F 201
Convention Center
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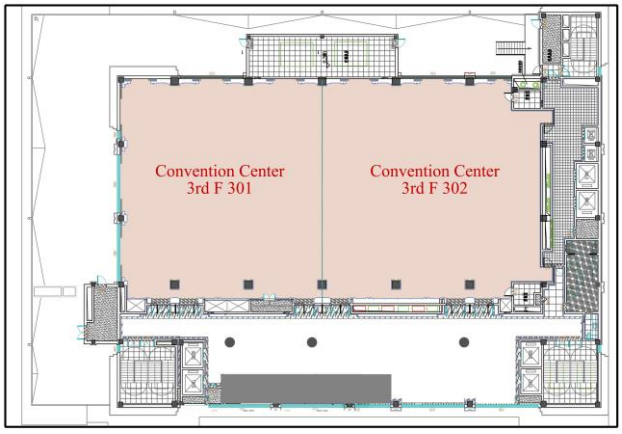

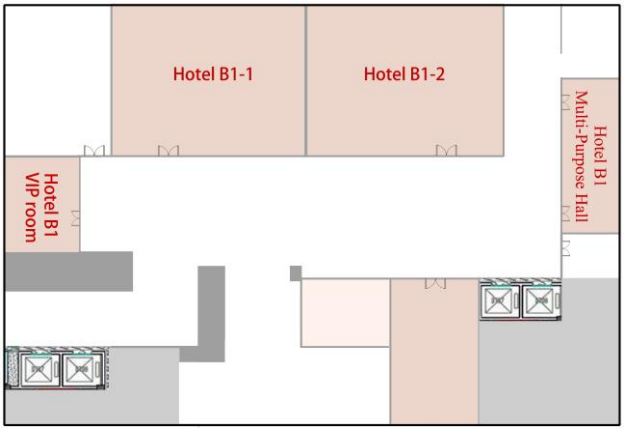

Hotels & Contacts

Hotels	Holiday Inn Hotel (Changchun Jingyue)	Changchun Shengjie Zhongmao Apartment Hotel	Changchun Huayou New Century Mingdu Hotel	Holiday Inn Express Ecological Square
Contacts	假日素态酒店联系人 尚妍妍	盛捷酒店接待负责人—戴鹏	开元酒店接待负责人 刘泓锐	生态智选酒店接待负责人-赵悦
Hotels	Hotel of National Prosecutors College	Pure Time Hotel	Hotel of Jilin Agricultural University	Beixu Hotel
Contacts	检察官宾馆接待负责人-樊雨鑫	假日素态酒店联系人 尚妍妍	农大宾馆接待负责人-王鹏	北煦宾馆接待负责人-刘帅

(3) Catering

Aug 03, 2024

Reception: Convention Center 3rd F 301 & 302.

Aug 04, 2024

Breakfast: Hotel.

Lunch: Convention Center 3rd F 301 & 302.

Dinner: Convention Center 1st F Main Hall.

Aug 05, 2024

Breakfast: Hotel.

Lunch: Convention Center 1st F Main Hall.

Gala Dinner: Convention Center 3rd F 301 & 302.

Aug 06, 2024

Breakfast: Hotel.

Lunch: Convention Center 3rd F 301 & 302.

(4) Medical Service

- If you need help, please contact Zhao Peng, Phone: 1375668**** (Foreign attendants); Doctor Guo, Phone: 1800445**** (Domestic attendants).
- The medical emergency number is 120.

(5) Conference contacts

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  Dayong Li, Phone: 1554328****; E-mail: 446030428@qq.com

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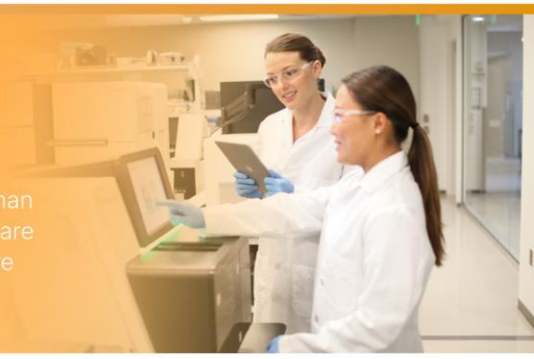
illumina®

Who we are

Illumina is a leading developer, manufacturer, and marketer of life science tools and integrated systems dedicated to making genomics useful for all. Innovating at the intersection of technology, biology, and health, we are reimagining what's possible for human health and the health of our planet, including how diseases—from cancer to COVID-19—are discovered, detected, diagnosed, and treated. We provide sequencing innovations that are enabling researchers and clinicians to usher in the future of personalized medicine.



Fast facts

Founded in
1998

Number of employees
~9,250

Annual revenue (2023)[1]
$4.50B USD

Cumulative sequencing installed base
> 25,000

Headquarters
San Diego, California, USA

Countries served
> 160

Chief Executive Officer
Jacob Thaysen

Sequencing systems

Next-generation sequencing (NGS) is revolutionizing research, enabling experiments that weren't possible before. Illumina offers a range of innovative NGS platforms that deliver exceptional data quality and accuracy, at a massive scale.



NovaSeq™ X/X Plus | NovaSeq 6000/6000Dx* | NextSeq™ 1000/2000 — **Production-scale systems**

NextSeq 550/550Dx* | MiSeq™ and MiSeqDx* | MiniSeq™ | iSeq™ 100 — **Benchtop systems**

Applications

- Oncology
- Genetic disease
- Infectious disease
- Multiomics
- Drug discovery
- Microbial genomics
- Reproductive health
- Molecular and cell biology
- Agriculture
- Conservation and sustainability

Customers

- Clinics
- Hospitals
- Research labs
- Health care systems
- Academic institutions
- Government agencies
- Pharmaceutical companies

For Research Use Only. Not for use in diagnostic procedures.
*For *In Vitro* Diagnostic Use. Not available in all regions and countries.