

CONFERENCE
PROGRAM

8TH EDITION OF GLOBAL CONGRESS ON

**PLANT
BIOLOGY
AND
BIOTECHNOLOGY**

25-27
MARCH, 2024

SINGAPORE



IN-PERSON:

Village Hotel Changi

1 Netheravon Rd, Singapore 508502



VIRTUAL:

Greenwich Mean Time Zone

DAY 01

Monday, March 25
(In-person)

08:00-08:50	Registrations
08:50-09:00	Opening Ceremony and Introduction
09:00-12:50	In-person Keynote Presentations
13:50-17:10	In-person Oral Presentations
17:10-18:00	In-person Poster Presentations

DAY 02

Tuesday, March 26
(In-person)

08:50-09:00	Opening Remarks
09:00-12:50	In-person Keynote Presentations
13:50-18:00	In-person Oral Presentations

DAY 03

Wednesday, March 27
(Virtual)

08:30-09:00	AV check
09:00-10:40	Virtual Keynote Presentations
10:40-14:40	Virtual Oral Presentations
14:40-15:40	Virtual Poster Presentations
15:40-17:20	Virtual Keynote Presentations
17:20-20:40	Virtual Oral Presentations

 IN-PERSON
 VIRTUAL

Day 01 Break Timings (In-person)

10:40-11:10	Coffee Break
12:50-13:50	Lunch Break
17:10-18:00	Coffee Break

Day 02 Break Timings (In-person)

10:40-11:10	Coffee Break
12:50-13:50	Lunch Break
16:10-16:40	Coffee Break

Important Note

- The conference follows Singapore Time (SGT) for In-person and Greenwich Mean Time (GMT) for Virtual sessions.
- When the program refers to “Local Timings,” it means that the timing mentioned is based on the time zone of the presenter’s country
- In-person presentations will take place in the Sphere 2 & 3 @ Village Hotel Changi, Singapore and Virtual presentations will take place in Zoom meetings
- Please remain accessible in the hall or on Zoom throughout the day as there could be minor program adjustments due to technical issues or presenter no-shows.

KEYNOTE PRESENTATIONS

Singapore Time (SGT)

@SPHERE 2 & 3

08:00–08:50 | Registrations

08:50–09:00 | Opening Ceremony and Introduction

Moderator:

Paulo Cesar Baleeiro, The University of Queensland, Australia

09:00–09:50

In-person

Mohammad Babadoost
University of Illinois, United States

Title: Importance of biotechnology in developing effective management of fruit rots of apples

09:50–10:40

In-person

Mary Cole
The University of Melbourne, Australia

Title: Using the urban and farming waste streams to improve soil health in agricultural systems

Group Photo

10:40–11:10 | Coffee Break @Foyer

11:10–12:00

In-person

Kasiviswanathan Muthukumarappan
South Dakota State University, United States

Title: Develop smart biochar-based control release nitrogen fertilizers to improve the sustainability of corn production

12:00–12:50

In-person

Abdul Khalil Gardezi
Colegio de Posgraduados, Mexico

Title: Enhancing tomato crop growth in wastewater-irrigated soils: Exploring the potential of bacterial consortia for bioremediation

12:50–13:50 | Lunch @Oval Foyer

ORAL PRESENTATIONS

Chairs:

Mohammad Babadoost, University of Illinois, United States
Kasiviswanathan Muthukumarappan, South Dakota State University, United States
Mary Cole, The University of Melbourne, Australia
Abdul Khalil Gardezi, Colegio de Posgraduados, Mexico

13:50–14:10 In-person

Paulo Cesar Baleeiro
The University of Queensland,
Australia

Title: Islands in the desert – Exploring the genetic diversity and structure of eriocaulon in the springs of the Great Artesian Basin, Australia

14:10–14:30 In-person

Ramon Garza Garcia
INIFAP, Mexico

Title: Breeding of new common bean varieties from preferred native genotypes in Mexico

14:30–14:50 In-person

Carmen Jacinto-Hernandez
INIFAP, Mexico

Title: Polyphenol oxidase activity in common beans with different post-harvest time

14:50–15:10 In-person

Maria do Carmo Horta
Polytechnic Institute of Castelo
Branco, Portugal

Title: Recovery of N and P from livestock and agro-industrial effluents: Physical-chemical processes and agronomic efficiency

15:10–15:30 In-person

Pakhawat Pookhamsak
Suranaree University of Technology,
Thailand

Title: Pyramiding of powdery mildew and leaf spot resistance genes in mungbean using marker-assisted backcrossing

15:30–15:50 In-person

Shrishail
Kuvempu University, India

Title: Phytochemical and physicochemical characterization of apiary honeys from the different regions of Central Western Ghats of Karnataka, South India

15:50–16:10 In-person

Geetha Balakrishnan Sreedevi
Kerala State Council for Science
Technology and Environment, India

Title: Braided botany: My thrills of scientific plant research at botanic garden

16:10–16:30 In-person

Januka Pradhan
Sikkim Manipal Institute of Medical
Sciences, India

Title: In-vitro antibacterial activity of the Sikkim Himalayan medicinal plant Hippophae salicifolia: Promising source of new drug for (Multi Drug Resistance) MDR pseudomonas aeruginosa

16:30–16:50 In-person

Theivasigamani Parthasarathi
Vellore Institute of Technology, India

Title: Mitigation of abiotic stresses by using phyto-microbiome

Resmi A
SN College Punalur, India

Title: Substitutes of Albizia lebbeck (L.) Benth in ayurveda: Comparative analysis of properties and prospective for scientific validation

(17:10-18:00) POSTER PRESENTATIONS @FOYER

PP01

In-person

Alice Dulaj
University of Copenhagen, Denmark

Title: The presence of rol genes in nature and the applications of the rol-technology via non-GMO breeding to improve horticultural plant traits

PP02

In-person

Khin Mar Cho
Temasek Polytechnic, Singapore

Title: Developing innovative soil-less microgreens cultivation

PP03

In-person

Kowit Hengphasatporn
University of Tsukuba, Japan

Title: Insights into molecular metabolism of herbicide-resistant CYP81As through molecular docking and MM/GBSA analysis

PP04

In-person

Karine Sarikyan
Head of Department Breeding and Cultivation Technology Solanaceae Crops of the Scientific Center Vegetables and Industrial Crops of the Ministry Economy RA, Armenia

Title: Breeding and latest cultivation technologies of a Solanaceae vegetable crops in Armenia

PP05

In-person

Melyan Gayane
Armenian National Agrarian University, Armenia

Title: In vitro propagation of grapevine (*Vitis vinifera* L.) cultivar 'Sveni' by direct organogenesis

PP06

In-person

Alimzhanova Mereke
Al-Farabi Kazakh National University, Kazakhstan

Title: Co₂ extract of tobacco (*Nicotiana*) as antifungal materials of grape diseases

PP07

In-person

Alimzhanova Mereke
Al-Farabi Kazakh National University, Kazakhstan

Title: Biopesticides against apple disease *Erwinia amylovora*

DAY 2

IN-PERSON

MARCH 26, 2024

Tuesday

KEYNOTE PRESENTATIONS

Singapore Time (SGT)

@SPHERE 2 & 3

08:50–09:00 | Opening Remarks

Moderator:
Arti Jamwal Sharma, Career Point University, India

09:00–09:50

In-person

Dol Prasad Dhakal
Freelance Researcher, United States

Title: Study of the diseases of large cardamom (*Amomum subulatum* roxb.) in the Eastern Hills of Nepal

09:50–10:40

In-person

Bijayalaxmi Mohanty
National University of Singapore,
Singapore

Title: Plant systems biology: Application to rice for understanding metabolic and regulatory characteristics under different abiotic and biotic stress conditions

10:40–11:10 | Coffee Break @Foyer

11:10–12:00

In-person

Rameshkumar K B
Jawaharlal Nehru Tropical Botanic
Garden and Research Institute, India

Title: Plant volatile organic compounds – An avenue of possibilities

12:00–12:50

In-person

Manuel Tornel Martinez
Instituto Murciano de Investigación
y Desarrollo Agrario y Alimentario,
Spain

Title: Expanding global table grape production and consumption trends driven by new seedless varieties

12:50–13:50 | Lunch @Oval Foyer

ORAL PRESENTATIONS

Chairs:

Dol Prasad Dhakal, Nepal Agroforestry Foundation, United States
Bijayalaxmi Mohanty, National University of Singapore, Singapore
Manuel Tornel Martinez, Instituto Murciano de Investigación y Desarrollo Agrario y Alimentario, Spain
Rameshkumar K B, Jawaharlal Nehru Tropical Botanic Garden and Research Institute, India

13:50–14:10

In-person

Siti Nor Akmar Abdullah
Universiti Putra Malaysia, Malaysia

Title: Unravelling molecular mechanism at early stage of *Ganoderma boninense* infection of oil palm for an effective disease mitigation strategies

14:10–14:30 In-person

Ananda Virginia de Aguiar
Embrapa Florestas, Brazil

Title: Biotechnologies applied to the improvement of pine for resin production

14:30–14:50 In-person

Pannaga Krishnamurthy
National University of Singapore,
Singapore

Title: Salt tolerance in plants; lessons learnt from mangroves

14:50–15:10 In-person

Arti Jamwal Sharma
Career Point University, India

Title: Phytochemical profiling and radical scavenging activity of *Fagopyrum esculentum* moench under drought stress: A potential medicinal herb of Himalayas

15:10–15:30 In-person

Rajeev Kumar
Lovely Professional University, India

Title: Biocontrol activity of weed leaf extract against phytopathogenic, phytophthora and fusarium fungi

15:30–15:50 In-person

Navneeti Chamoli
H.N.B. Garhwal University, India

Title: Assessment of genetic diversity and population structure of French bean accessions of Garhwal Himalayas by SSR markers and morpho-agronomic traits

15:50–16:10 In-person

Birendra Kumar Bhattachan
Agriculture and Forestry University,
Nepal

Title: Toposequential terraces environment and use of fertilizer influenced grain yield of rainfed lowland rice in the mid-hills of Nepal

16:10–16:40 | Coffee Break @Foyer

16:40–17:00 In-person

Chaichi Wissem
University of Blida 1, Algeria

Title: Effect of vegetable oils and aqueous extracts on antifungal activities and strategic crop development mechanisms

17:00–17:20 In-person

Nirmalendu Das
Barasat Government College, India

Title: Application of endobacterial isolates for sustainable production of Oyster mushroom

17:20–17:40 In-person

Nisha Singh
Gujarat Biotechnology University,
India

Title: Identification of genes to improve seed and nutrition quality traits in pigeonpea using genome wide association study

17:40–18:00 In-person

Francis Machumi
Muhimbili University of Health and
Allied Sciences, Tanzania, United
Republic of

Title: Antimicrobial properties of Tanzanian combretum species

KEYNOTE PRESENTATIONS

GMT

Local Timings

@ZOOM MEETING

08:30–09:00 GMT | AV check

Moderators:

Pratibha Pandey, Noida Institute of Engineering and Technology, India
Sangeeta Singh, International Centre for Genetic Engineering and Biotechnology, India
Marouane Ben Massoud, University College Cork, Ireland

09:00–09:50

10:00–10:50

Carlos Ruiz Garvia

UN Climate Change, Adaptation Division, UNFCCC, Germany

Title: Shifting paradigms with bamboo: Prominent solutions for climate change and sustainability

09:50–10:40

15:20–16:10

T. S. Suryanarayanan

VINSTROM, India

Title: Plant endobiome and climate change

ORAL PRESENTATIONS

Chair:

Valasia Lakovoglou, UNESCO chair Con-E-Ect, International Hellenic University, Greece

10:40–11:00

19:40–20:00

Akio Tateya

Japan Fumigation Technology Association, Japan

Title: Alternatives used in plant quarantine treatment and appropriate use of methyl bromide in Japan

11:00–11:20

19:00–19:20

Guangyue Li

Chinese Academy of Agricultural Sciences, China

Title: Enhancing the production of Xenocoumacin 1 in *Xenorhabdus nematophila* CB6 by a combinatorial engineering strategy

11:20–11:40

19:20–19:40

Yifeng Wang

China National Rice Research Institute, China

Title: ABF1 positively regulates rice chilling tolerance via inducing trehalose biosynthesis

11:40–12:00

17:10–17:30

Pushpa Lohani

G B Pant University of Agriculture & Technology, India

Title: Zinc–chitosan–salicylic acid nanoparticles enhance tolerance and augment yield in wheat (*Triticum aestivum* L.) during drought

12:00–12:20

17:30–17:50

Shumaila Shahid

ICAR– Indian Agricultural Research Institute, India

Title: Fusarium wilt disease of cucurbits – Its importance and management

GMT Local Timings

12:20–12:40 17:50–18:10

Neeraj Bainsal
Chandigarh University, India

Title: Antianxiety activity of *Thalictrum foliolosum* (roots) and *Shorea robusta* (resin): Research outcomes from animal experimentation studies

12:40–13:00 18:10–18:30

Pratibha Pandey
Noida Institute of Engineering and Technology, India

Title: Plant based compounds targeting dysregulated cell signaling pathways in several human carcinomas

13:00–13:20 18:30–18:50

Rolika Gupta
Career Point University, India

Title: Technologies for the production of tissue raised quality rich *Swertia chirayita* using LED lamps

13:20–13:40 18:50–19:10

Vijayan Gurumurthy Iyer
Bihar Institute of Public Administration & Rural Development, India

Title: Total Quality and Environmental Management (TQEM) from product quality to environmental performance excellence for the sustainable seed–cotton (or kapas) development

13:40–14:00 19:10–19:30

Om Prakash Shukla
JK Paper Ltd, India

Title: Tree breeding for development of triploid hybrid in *leucaena leucocephala* to resolve wood sustainability in India

14:00–14:20 17:30–17:50

Soroor Khorramdel
Ferdowsi University of Mashhad, Iran (Islamic Republic of)

Title: Evaluation of sunn pest resistance in bread wheat genotypes/cultivars using agronomic characteristics

14:20–14:40 19:50–20:10

Sangeeta Singh
International Centre for Genetic Engineering and Biotechnology, India

Title: Genomic advancements: Unveiling a 62K genic–SNP chip array for precision genetic studies and breeding applications in pigeonpea (*Cajanus cajan* L. millsp.)

POSTER PRESENTATIONS

14:40–14:50 18:40–18:50

Kirakosyan Gohar
Scientific Center Vegetables and Industrial Crops Ministry of Economy Republic of Armenia, Armenia

Title: Study of the several genetic resources beans in Armenia

14:50–15:00 18:50–19:00

Gayane Shaboyan
CJSC of the Ministry of Economy, Armenia

Title: Study of the several genetic resources lentils from ICARDA in Armenia

15:00–15:10 19:00–19:10

Gayane Martirosyan
Ministry of Economy of the Republic of Armenia, Armenia

Title: Impact of grafting on bio morphological and economically valuable particularities of watermelon

15:10–15:20

18:40–18:50

Sahel Haghighi

Sari University of Agricultural
Sciences and Natural Resources, Iran
(Islamic Republic of)

Title: Investigating Vetiver plant eco physiology and shear stress changes in different regions in Iran

15:20–15:30

18:50–19:00

Sahel Haghighi

Sari University of Agricultural
Sciences and Natural Resources, Iran
(Islamic Republic of)

Title: The place of electrophysiology in sustainable management of rangeland ecosystems using Vetiver in Iran

15:30–15:40

17:30–17:40

Kenoni Moyo

Central University of Technology,
South Africa

Title: Eco–organic system and silicon–based biostimulant as a strategy for vegetable production under multistress conditions in South Africa: A review

KEYNOTE PRESENTATIONS

15:40–16:30

17:40–18:30

Valasia Lakovoglou

UNESCO chair Con–E–Ect,
International Hellenic University,
Greece

Title: Nature–based solutions for sustainable management of ecosystems

16:30–17:20

10:30–11:20

Edgar Omar Rueda Puente

Universidad de Sonora, Mexico

Title: The potential of beneficial microorganisms with the interaction with halophytes in desert and/or arid saline areas

ORAL PRESENTATIONS

17:20–17:40

19:20–19:40

Phumzile Sibisi

University of South Africa, South
Africa

Title: Identification and characterization of microRNAs as role players in the wheat (*Triticum aestivum*) defence response against the Russian wheat aphid

17:40–18:00

18:40–19:00

Odewade Joseph Oluwaseun

Federal University Dutsin–Ma, Nigeria

Title: In vitro assessment of antidiarrheic properties of root fractions of *Chrysophyllum albidum* root extract

18:00–18:20

19:00–19:20

Zsolt Ponya

Hungarian University of Agriculture
and Life Sciences, Hungary

Title: The potential use of the analysis of biophoton emission profiles in monitoring plant health state

18:20–18:40

19:20–19:40

Sirangelo Tiziana Maria

ENEA–Italian National Agency for
New Technologies, Italy

Title: Innovative approaches to investigate pathogen resistant cannabis crops

18:40–19:00	19:40–20:00	Likeng Li Ngue Benoit Constant University of Yaounde I, Cameroon	Title: Genetic diversity of <i>Hibiscus sabdariffa</i> collected in some countries of the Central African sub-region
19:00–19:20	19:00–19:20	Graham Matthews Imperial College, United Kingdom	Title: A future for ultra-low volume application of biological and selected chemical pesticides
19:20–19:40	20:20–20:40	Ayadi Radia University of Blida 1, Algeria	Title: Chemical analysis and evaluation of anti-microbial activities of extracts from aerial and underground parts of Algerian <i>Echinops spinosus</i>
19:40–20:00	19:40–20:00	Marouane Ben Massoud University College Cork, Ireland	Title: Effect of exogenous treatment with Nitric Oxide (NO) on redox homeostasis in barley seedlings (<i>Hordeum vulgare</i> L.) under copper stress
20:00–20:20	17:00–17:20	Anabela Silveira de Oliveira Centro Universitario da Regiao da Campanha, Brazil	Title: Pampas cacti: Ecology, diversity and conservation
20:20–20:40	14:20–14:40	Borja Barbero Barcenilla Texas A&M University, United States	Title: Growing beyond earth: Telomere tales of <i>Arabidopsis thaliana</i> in lunar regolith simulant and on international space station
20:40–21:00	20:40–21:00	Yapo Yomeh Cynthia Viviane Universite Alassane Ouattara, Cote d'Ivoire	Title: Antimicrobial medicinal plants used in the grands ponts region (Cote d'Ivoire): Ethnobotanical study and evaluation of the antibacterial, antifungal and toxic activities of the most frequently used taxa
21:00–21:20	21:00–21:20	Ana P G C Marques CBQF, Portugal	Title: Can phytoremediation be a solution for the food vs fuel problem?

END NOTE

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*We wish to meet you again at our
upcoming events*

9th Edition of Global Conference on
Plant Science and Molecular Biology

September 16 – 18, 2024

Rome, Italy | Hybrid Event

<https://plant-science-biology-conferences.magnusgroup.org/>

9th Edition of Global Congress on
Plant Biology and Biotechnology

March 27-29, 2025 | Singapore

<https://plantbiologyconference.com/>

Questions? Contact

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