

Scientific Programme: MiGC14

15 March 2021 (Monday)

Time	Event
9:00 – 9:30	<p><i>Emcee:</i> <i>Dr. Muhammad Aidil Ibrahim, Universiti Teknologi MARA</i></p> <p>WELCOMING & OPENING CEREMONY</p>
9:30 – 10:30	<p><i>Chairperson:</i> <i>Prof. Dr. Abd. Rahman Milan, Persatuan Genetik Malaysia</i></p> <p>MENDEL LECTURE</p> <p>Dr. Nik Serena Nik Zainal University of Cambridge, United Kingdom</p> <p>Harnessing the Value of Whole Genome Sequencing in the Management of Human Cancer</p>
10:30 – 11:30	<p><i>Chairperson:</i> <i>Prof. Dr. Zilfalil Alwi, Universiti Sains Malaysia</i></p> <p>KEYNOTE</p> <p>Datuk Dr. Hishamshah Bin Mohd Ibrahim Deputy Director General of Health Ministry of Health, Malaysia (Research & Technical Support)</p> <p>The Genetics of the Malaysian Covid-19 pandemic</p>
<p>SYMPOSIUM 1</p>	
11:30 – 12:00	<p><i>Chairperson:</i> <i>Prof. Dr. Zarina Abd Latiff, Universiti Kebangsaan Malaysia</i></p> <p>TRACK 1: Medicine & Health Sciences (Plenary 1)</p> <p>Prof. Dr. Sok Ching Cheong University of Malaya, Malaysia</p> <p>Identification of the Genetic Vulnerabilities of Oral Cancers using</p>

CRISPR/Cas9 Gene Editing

12:00 – 12:30

**TRACK 2: Food & Agriculture
(Plenary 2)**

Prof. Dr. Wendy Harwood
John Innes Centre, UK

Advances in Genome Editing in Cereal Crops

14:00 – 14:30

TECHNOLOGY TALK 1

Chairperson:

Dr. Muhammad Aidil Ibrahim, Universiti Teknologi MARA

Vanitha Palaeya (QIAGEN)
Analisa Resources (M) Sdn Bhd

QIAcuity: The Future is Digital

SYMPOSIUM 2

**TRACK 1
Medicine & Health
Sciences**

Chairperson:
Assoc. Prof. Dr.
Norshariza Nordin,
Universiti Putra
Malaysia

**TRACK 2
Food &
Agriculture**

Chairperson:
Dr Mohd Din
Amiruddin, Malaysian
Palm Oil Board

**TRACK 3
Forestry, Conservation
& Biodiversity**

Chairperson:
Assoc. Prof. Dr. Shamsiah
Abdullah, Universiti
Teknologi MARA

14:30 – 14:50

**Lead Paper
(LM1)**

Assoc. Prof. Dr.
Noor Azmi
Shaharuddin
Universiti Putra
Malaysia, Malaysia

Biochemical Evaluations
of *Zingiberaceae* Sp. and
Transcriptomics
Analysis of UV-
Irradiated Human
Fibroblast Cells for Anti-
Aging Effect

**Lead paper
(LF1)**

Dr. Dheeraj Rathore
Teagasc, Ireland

Ensifer Mediated
Transformation (EMT)
Technology for Plant
Genetic Improvement

**Lead Paper
(LB1)**

Dr. Zulkifli Yaakub
Malaysian Palm Oil Board,
Malaysia

Creating A Sustainable
Oil Palm Genetic
Resource

14:50 – 15:05	<p>OM1 Rifhan Azwani Mazlan University Malaya Medical Centre, Kuala Lumpur Malaysia</p> <p>Non-directiveness in Genetic Counselling in Prenatal Diagnosis and Termination of Pregnancy</p>	<p>OF1 Izwan Bharudin Universiti Kebangsaan Malaysia, Malaysia</p> <p>Mating-Type Genes in <i>Ganoderma boninense</i></p>	<p>OB1 Salmah Yaakop Universiti Kebangsaan Malaysia, Malaysia</p> <p>New Insight into Distribution of Pest, <i>Metisa plana</i> (Lepidoptera: Psychidae) in the West Coast of Peninsular Malaysia using Three Molecular Markers Towards Its Management Strategy</p>
15:05 – 15:20	<p>OM2 Jonathan Jun-Yong Lim Nara Institute of Science and Technology, Japan</p> <p>Investigation of CRISPR-Cas9 as a Novel Method to Generate Organ-Deficient Mouse Model</p>	<p>OF2 Aliif Ihsaan Akmal Shukri Universiti Teknologi MARA, Malaysia</p> <p>Genetic Diversity of Malaysia Upland Rice Accessions Based on Agro-morphological Traits</p>	<p>OB2 Juanita Joseph Universiti Malaysia Sabah, Malaysia</p> <p>Genetic Techniques as a Tool in Understanding the Biology of Marine Turtles for Better Conservation Management in Malaysia</p>
15:20 – 15:35	<p>OM3 Izzah Syahira Omar Universiti Sains Malaysia, Malaysia</p> <p>A Study on Rapidly Mutating Y-Str Among Male Monozygotic Twins</p>	<p>OF3 Hazel Marie Kugan University of Malaya, Malaysia</p> <p>Progress in Pulse Crop Genetics for a Sustainable Food Future</p>	<p>OB3 Muhd Nazmi Amir Mazlan Universiti Kebangsaan Malaysia, Malaysia</p> <p>Phylogenetic Relationship of Red Junglefowl (<i>Gallus gallus</i>) in Peninsular Malaysia</p>
15:35 – 15:50	<p>OM4 Chai Teng Chear Institute for Medical Research, Malaysia</p> <p>The Structural Impact of NLRC4 Q657L Mutation Associated with Spontaneous Inflammasome Activation Using</p>	<p>OF4 Norzulaiha Binti Abd. Karim Universiti Malaysia Sabah, Malaysia</p> <p>Inhibitory Properties of Single Chain 2S Albumin Seed Storage Protein from <i>Theobroma cacao</i></p>	<p>OB4 Johan Ariff Mohtar Universiti Malaysia Perlis, Malaysia</p> <p>Molecular Identification of Cave-Dwelling Spiders Indigenous to Gua Kelam, Perlis State Park</p>

	Computational Approaches		
15:50 – 16:05	<p>OM5 Sweta Raikundalia Universiti Sains Malaysia, Malaysia</p> <p>MIR-32-5P Controls Cell Apoptosis, Cell Cycle Progression and Wound Repair by Regulating Choline Kinase Alpha Gene Expression</p>	<p>OF5 Rafida Razali Universiti Malaysia Sabah, Malaysia</p> <p>Production, Catalytic and Structural Properties of Codon-optimized Recombinant Bromelain from MD2 Pineapple</p>	<p>OB5 Qi Luan Lim Kyoto University, Japan</p> <p>Genetic Diversity and Phylogenetic Relationship of Malayan Tapir (<i>Tapirus indicus</i>) Populations in the Malay Peninsula Based on the Mitochondrial Control Region</p>
16:05 – 16:20	<p>OM6 Adiratna Mat Ripen Institute for Medical Research</p> <p>Concordance and Discordance between Whole-Exome Sequencing Findings and Clinical Diagnoses for Inborn Errors of Immunity</p>	<p>OF6 Azzreena Mohamad Azzeme Universiti Putra Malaysia</p> <p>Phenolics and Their Actions in Regulating Expression of Browning Associated Genes and Vegetative Growth of <i>In Vitro</i> Banana</p>	<p>OB6 Muhammad Fadli Bin Mazlan Universiti Teknologi MARA, Malaysia</p> <p>Sequence Analysis of Civet Species using Cytochrome</p>
16:20 – 17:35	POSTER VIEWING		

16 March 2021 (Tuesday)

SYMPOSIUM 3

Chairperson:

Associate Prof. Dr. Zarina Zainuddin, International Islamic University Malaysia

9:00 – 9:30

**TRACK 1: Medicine & Health Sciences
(Plenary 3)**

Prof. Dr. Johan den Dunnen
Leiden University Medical Center (LUMC), Netherland

For A Better Future - Share What You Know !

9:30 – 10:00

**TRACK 2: Food & Agriculture
(Plenary 4)**

Dr. Brande Wulff
John Innes Centre, UK

Sustainable Control of Disease Resistance – the Case for GM Wheat

10:00 – 10:30

**TRACK 3: Forestry, Conservation & Biodiversity
(Plenary 5)**

Dr Kevin Ng Kit Siong
Forest Research Institute Malaysia, Malaysia

The Genome of *Shorea leprosula* (Dipterocarpaceae)
Highlights the Ecological Relevance of Drought in
Aseasonal Tropical Rainforests

SYMPOSIUM 4

Genetics of COVID-19 Infection

Chairperson:

Prof. Dr. Thong Meow Keong, University of Malaya

10:30 – 11:00

Plenary 6

Prof. Dr. Wang Linfa
Duke-NUS Medical School, Singapore

COVID-19: From Virus Origin to Vaccine

11:00 – 11:20	<p style="text-align: center;">Lead Paper (LC1) Datuk Prof. Dr. Awang Bulgiba Awang Mahmud University of Malaya, Malaysia</p> <p style="text-align: center;">COVID-19 Pandemic Containment Measures in Malaysia</p>
11:20 – 11:40	<p style="text-align: center;">(LC2) Mr. Mohd Noor Mat Isa Malaysia Genome Institute, Malaysia</p> <p style="text-align: center;">The Genomic Surveillance of Malaysia SARS-CoV-2 Virus</p>
11:40 – 12:00	<p style="text-align: center;">(LC3) Dr. Rozainanee Mohd Zain Institute for Medical Research, Malaysia</p> <p style="text-align: center;">COVID-19 Diagnostic Testing in Malaysia</p>
12:00 – 12:20	<p style="text-align: center;">(LC4) Dr. Hajar Fauzan Ahmad Universiti Malaysia Pahang, Malaysia</p> <p style="text-align: center;">Remote Sequencing Strategy: Decoding D614G Mutation of SARS-CoV-2 Virus Isolated from Pahang, Malaysia Cases</p>
12:20 – 12:35	<p style="text-align: center;">(LC5) Dr. Abdelazeem Elhabyan Arizona State University, United States</p> <p style="text-align: center;">Genetics of Severe COVID-19</p>
12:35 – 12:50	<p style="text-align: center;">(OC1) Saidatul Wahidah Maisin Universiti Malaysia Sabah</p> <p style="text-align: center;">Development of RT-PCR for Detection Of COVID-19 from Saliva in Accordance to ISO 17025:2015: A Quality Practice And Trust In Results</p>
12:50 – 14:00	POSTER VIEWING

**Meet the Experts Session:
Career Pathways in Genetics**

Moderator:

Dr. Norwati Muhammad

Deputy Director General (Research)
Forest Research Institute Malaysia

Panelist 1

Mrs. Yoon Sook-Yee

President
Genetic Counseling Society Malaysia
(Human Genetics)

Panelist 2:

Prof. Dr. Abdul Rahman Milan

President
Genetics Society of Malaysia
(Plant Genetics)

Panelist 3:

Prof. Dr. Mohamed Ariff Omar

Former President
Malaysian Society of Animal Production
(Animal Genetics)

14.00 - 15:30

15.30 - 17:00

PGM 26th Annual General Meeting
(For PGM Members)

15:00 - 17:00

POSTER VIEWING

17 March 2021 (Wednesday)

SYMPOSIUM 5

Chairperson:

Assoc. Prof. Dr. Chan Soon Choy, Perdana University

9:00 – 9:30	<p>TRACK 1 Medicine & Health Sciences (Plenary 7)</p> <p>Prof. Datin Dr. Norlinah Mohamed Ibrahim Universiti Kebangsaan Malaysia</p> <p>Could Gene Therapies be the Long Awaited Hope for Neurodegenerative Diseases?</p>
9:30 – 10:00	<p>TRACK 3: Forestry, Conservation & Biodiversity (Plenary 8)</p> <p>Prof. Dato' Dr. Mohd Tajuddin Abdullah Universiti Malaysia Terengganu</p> <p>Greater Kenyir Landscapes and Biodiversity Bank</p>
10:00 – 10:30	<p>TECHNOLOGY TALK 2 <i>Chairperson:</i> <i>Dr. Muhammad Aidil Ibrahim, Universiti Teknologi MARA</i></p> <p>Dr. Zuwei Qian Pacific Biosciences sponsored by Research Instrument Sdn Bhd</p> <p>PacBio's HiFi Sequencing: Advancing Genomics for a Better Future</p>

SYMPOSIUM 6

	TRACK 1 Medicine & Health Sciences	TRACK 2 Food & Agriculture	TRACK 3 Forestry, Conservation & Biodiversity
	<p><i>Chairperson:</i> <i>Puan Sharifah Azween, Universiti Kebangsaan Malaysia</i></p>	<p><i>Chairperson:</i> <i>Assoc. Prof. Dr. Azwan Awang, Universiti Malaysia Sabah</i></p>	<p><i>Chairperson:</i> <i>Dr. Nor'Aishah Hassan, Universiti Teknologi MARA</i></p>
10:30 – 10:50	Lead paper	Lead paper	Lead Paper

	(LM2) Assoc. Prof. Dr. Norlelawati A. Talib International Islamic University Malaysia, Malaysia Molecular Genetic Testing for Cancers in Diagnostic Laboratory: SASMEC@IIUM experience	(LF2) Mohd Hafiz bin Abdul Rahman Institut Biodiversiti Veterinar Kebangsaan, Malaysia Redevelopment of Mafriwal Cattle Breed for Milk Production in Malaysia	(LB2) Assoc. Prof. Dr. Potjamarn Suraninpong, Walailak University, Thailand Phylogenetic Analysis of Nepenthes in Thailand
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SYMPOSIUM 7

Chairperson:

Dr. Hasnita Che Hassan, Universiti Malaysia Kelantan

10:50 – 11:05	OB7 Merrie Corette Charles Management & Science University, Malaysia Molecular Method for Sex Identification of Pheasants (<i>Argusianus argus</i> and <i>Polyplectron malacense</i>) from Non-invasively Collected Samples using Three Independent Primer Sets
11:05 – 11:20	OB8 Bak Zaibah binti Fazal Universiti Malaysia Sabah, Malaysia Screening, Isolation and Characterization of Bacteria Producing Thermostable α -Amylases from Sabah Hot Springs
11:20 – 11:35	OB9 Muhd Amsyari Morni Universiti Malaysia Sarawak, Malaysia Assessing the Genetic Diversity Within <i>Crocidura monticola</i> Species Complex (Soricidae: Crocidurinae) Using mtDNA Cytochrome b Sequences
11:35 – 11:50	OB10 Nurshafrina Aida binti Yahya Universiti Malaysia Sabah, Malaysia Genome Analysis of <i>Thermoflavifilum aggregans</i> and Characterization of its Cellulase Degrading Enzyme
11:50 – 14:00	

POSTER VIEWING

SYMPOSIUM 8

Chairperson:

Dr. Mamat Hamidi Kamalludin, Universiti Putra Malaysia

14:00 – 14:30

TRACK 2 Food & Agriculture

(Plenary 9)

Dr. Bjoern Petersen

Friedrich-Loeffler-Institut

Federal Research Institute for Animal Health, Germany

Applications of Genome Editing in Farm Animals

14:30 – 15:00

TRACK 3 Forestry, Conservation & Biodiversity

(Plenary 10)

Assoc. Prof. Dr. Faisal Ali Anwarali Khan

Universiti Malaysia Sarawak, Malaysia

Evolution and Biogeography of Southeast Asian Roundleaf Bats

15:00 – 15:15

OB11

Julius William-Dee

Universiti Malaysia Sarawak,

Malaysia

Phylogeography of the Bornean Shrew (Family Soricidae: *Crocidura foetida*)
Inferred from Cytochrome B Gene Sequences and Cranio-dental Data

15:15 – 15:30

OB12

Nor Al-Shuhadah Binti Sabarudin

Universiti Malaysia Sarawak,

Malaysia

Genetic, Morphology and Echolocation Variation within Bamboo Bats in
Malaysia

15:30 – 15:45

OM7

Hasif Adli Zakariah

University of Malaya, Malaysia

Association analysis of a *GSTP1* functional polymorphism with
methamphetamine dependence and associated symptoms in a multiethnic
Malaysian population

15:45 – 16:45

Emcee:

Dr. Muhammad Aidil Ibrahim, Universiti Teknologi MARA

CLOSING CEREMONY