



14TH MALAYSIA
INTERNATIONAL
GENETICS
CONGRESS
(MIGC14) REPORT

15-17 March 2021

THEME

'Translating Genes for A Better Future'

VIRTUAL CONFERENCE

A. SECRETARY REPORT

- The MiGC14 2021 conference were organized by the Malaysian Genetic Society (PGM) in collaboration with the Malaysian Node of Human Variome Project (MyHVP). With the theme “Translating Genes for a Better Future’, it was the first conference conducted online via Cisco WebEx platform conducted entirely by the technical committee from USM.
- The organization of the MiGC14 2021 conference was a collaboration from 10 universities consisting USM, UKM, Perdana University, UMS, UMK, UIAM, UPM, UM, UNIMAS, UiTM as well 3 organizations, which were FRIM, IMR and MPOB.
- The MiGC14 2021 conference was successfully held online on 15-17 March 2021, with 201 participations consisting of 28 speakers, 97 paid participants, 39 forum participants, 3 participants from sponsoring companies and 34 committee members.
- The MiGC14 2021 conference involved 28 speakers of which, 9 were speakers were international speakers (United Kingdom, Singapore, Netherlands, USA, Thailand, Germany) while another 19 were local speakers from institutions such as the Ministry of Health Malaysia, UKM, UPM, UM, IMR, MPOB, FRIM, UIA, National Veterinary Biodiversity Institute, UNIMAS, UMT and UMP.
- The Scientific Program was coordinated by the Scientific Committee consisting of Mendel Lecture, Keynote, Plenary and Symposium. A total of 3 main tracks were compiled in the conference for each session which were Medicine & Health Sciences, Food & Agriculture and Forestry, Conservation & Biodiversity. A total of 10 plenary slots and 8 symposium slots were included in the Scientific Program. Each symposium slot consists of Lead Paper based on main track. A special symposium on the topic of COVID-19 Infections consisting of 1 plenary slot, 5 Lead Paper slots and 1 oral presentation slot.
- The Welcoming & Opening Ceremony, Technology Talk and Closing Ceremony were successfully hosted by Dr Muhammad Aidil Ibrahim from UiTM Kuala Pilah.
- Invitation link to participate the video conferencing was emailed by the Technical & Graphic Committee on 14/03/2021 to all the speakers and conference participants. There were 2 speakers informing that they could not participate in the Welcoming & Opening Ceremony session because they did not receive the invitation link.
- The conference was a success with an engagement of 34 committee members who were appointed from various institutions such as USM, UKM, UPM, UM, UMK, UMS, UNIMAS, Perdana University, UIA, UiTM, MPOB, FRIM and IMR. The full list of committee members are as follows:

No.	Committee	Name	Institution
1	Advisor	Professor Dr. Abd Rahman Milan	UMS
2	Chairman	Professor Dr. Zilfalil Bin Alwi	USM
3	Co-Chairman	Professor Dr. Zarina Abdul Latiff	UKM
4	Secretary	Mrs Norunaluwar Jalil	UKM
5	Assistant Secretary	Dr. Sharifah Nany Rahayu Karmila Syed Hassan	USM
6	Treasurer	Dr. Wan Faiziah Wan Abdul Rahman	USM

7	Assistant Treasurer I	Mrs Sharifah Azween Syed Omar	UKM
8	Assistant Treasurer II	Mrs Che Nor Ayunni Che Zainul Bahri	USM
9	Secretariat & Registration Committee	Mrs Che Nor Ayunni Che Zainul Bahri (Lead)	USM
10		Dr. Nik Norliza Nik Hassan	USM
11		Dr. Sharifah Nany Rahayu Karmila Syed Hassan	USM
12		Dr. Nurul 'Ain Abu Bakar	USM
13	Scientific Committee	Ts. Dr. Azreena Mohamad Azzeme (Lead)	UPM
14		Professor Dr. Abd. Rahman Milan	UMS
15		Professor Dr. Zarina Abdul Latiff	UKM
16		Professor Dr. Zilfalil Alwi	USM
17		Professor Dr. Thong Meow Keong	UM
18		Assoc. Professor Dr. Chan Soon Choy	PERDANA UNIVERSITY
19		Assoc. Professor Dr. Norshariza Nordin	UPM
20		Assoc. Professor Dr. Shamsiah Abdullah	UiTM
21		Assoc. Professor Dr. Zarina Zainuddin	IIUM
22		Dr. Mohd Din bin Amiruddin	MPOB
23		Ts. Dr. Nor' Aishah Hasan	UiTM
24		Assoc. Professor Dr. Teoh Seong Lin	UKM
25		Dr. Hasnita Che Harun	UMK
26		Assoc. Professor Dr. Azwan Awang	UMS
27		Dr. Mamat Hamidi Kamalludin	UPM
28		Dr. Norwati Muhammad	FRIM
29		Assoc. Professor Dr. Mohd Hasnain Md Hussain	UNIMAS
30	Publicity & Sponsorship Committee	Dr Waliyuddin Hanis bin Zainal Abidin (Lead)	USM
31		Dr Wan Rohani Wan Taib	UNISZA
32		Mrs Marini Marzuki	IMR
33		Assoc. Professor Dr. Azwan Awang	UMS
34	Assoc. Professor Dr. Mohd Hasnain Md Hussain	UNIMAS	
35	Technical & Graphic Committee	Mr Abdul Halim Fikri bin Hashim (Lead)	USM
36		Mr Hisyam Bin Yacob	USM
37		Mr Solahasni B. Abd. Aziz	USM
38		Mr Mohd Kamarulzaman Bin Noh	USM
39		Mr Nasruddin Haji Zainal Abidin	USM
40		Mr Mohd Nasaruddin Bin Yunus	USM

B. TREASURER REPORT

- The total of payment received details are as follows:

Type of Payment	Details	Amount (RM)
Sponsorships	ScienceVision Sdn Bhd	500.00
	Analisa Resources (M) Sdn bhd	4,000.00
	Research Instruments Sdn Bhd	3,500.00
	Centogene	975.93
	Apical Scientific Sdn Bhd	500.00
Payment from participants	Non PGM Member: 25 x RM200.00	5,000.00
	PGM Member: 10 x RM150.00	1,500.00
	Student (Non PGM Member): 35 x RM120.00	4,200.00
	Student (PGM Member): 13 x RM100.00	1,300.00
	Student (Group): 11 x RM80.00	880.00
	PGM Member (Group): 1 x RM120.00	120.00
	Student (International): 1 x USD50.00	193.25
	International: 1 x RM400.00	400.00
	Forum: 39 x RM10.00	390.00
TOTAL		23,459.18

- There were 3 participants from Lembaga Koko Malaysia made the payment via Purchase Order (PO) process valued RM550.00. However, actual payment is still pending (*at time this report was prepared*), but the amount was included in the table above.
- Expenses details for the MIGC14 2021 Conference are listed as follows:

No	Descriptions	Unit	Price (RM) /unit	Total (RM)
1	Razman Catering	1	720.00	720.00
2	1 st prize oral	3	200.00	600.00
3	1 st prize poster	3	200.00	600.00
4	2 nd prize oral	3	150.00	450.00
5	2 nd prize poster	3	150.00	450.00
6	3 rd prize oral	3	100.00	300.00
7	3 rd prize poster	3	100.00	300.00
8	Printing program book	15	17.50	262.50
9	Honorarium Secretariat MyHVP	2	1,000.00	2,000.00
10	Postage Programme Book MiGC14	1	7.80	7.80
11	Postage Programme Book MiGC14	1	16.50	16.50
Total				5,706.80

- Approximation of profit are as follows:

The total amount of income gained for this MiGC14 2021 Conference from sponsorship by local and international companies and also registration payment from the participants was RM23,459.18.

The total amount of spending for this MiGC14 2021 Conference was RM5,706.80.

Therefore, after deducting the spending, the profit gained was RM17,752.38.

RM23,459.18 – RM5,706.80 = **RM17,752.38**

C. SECRETARIAT & REGISTRATION COMMITTEE REPORT

- Total participants registered are as follows:

Category	No. of Person
Committee Members	34
Speakers	28
Conference Participants	97
Forum Participants	39
Company Representatives	3
TOTAL	201

- Presentation category breakdown are as follows:

Category	No. of Person
Oral	26
e-Poster	38
Speakers	28
Non-presenters	109
TOTAL	201

- Paid participants breakdown are as follows:

Category	No. of Person
Non PGM Member	25
Student (Non PGM Member)	35
PGM member	11
Student (PGM Member)	24
Student (International)	1
International	1
Forum	39
TOTAL	136

- Participants breakdown by the institutions:

No.	Institution	No. of Person
1	Universiti Kebangsaan Malaysia	36
2	Universiti Sains Malaysia	29
3	Universiti Malaysia Sabah	20
4	Institute for Medical research	17
5	Universiti Putra Malaysia	16
6	Universiti Malaya	10
7	Universiti Teknologi MARA	7
8	Universiti Malaysia Sarawak	5
9	Forest Research Institute	4
10	Lembaga Koko Malaysia	3
11	Universiti Islam Antarabangsa	3
12	Malaysian Palm Oil Board	3
13	Universiti Malaysia Kelantan	2
14	CRAUN Research Sdn Bhd	2

15	Malaysian Agricultural Research and Development Institute (MARDI)	2
16	Clinical Research Malaysia (CRM)	2
17	The John Innes Centre, United Kingdom	2
18	Universiti Sultan Zainal Abidin	1
19	Persatuan Genetik Malaysia	1
20	Clinical Research Centre	1
21	Perdana University	1
22	Department of Chemistry Malaysia	1
23	Universiti Malaysia Perlis	1
24	Infectious Disease society	1
25	Genetic Counselling Asia	1
26	Department of Veterinary services	1
27	Questra Clinical research Center	1
28	Xiamen University Malaysia	1
29	Management Science University	1
30	Universiti of Nottingham Malaysia	1
31	Taylor University	1
32	Nara Institute of science and Technology, Japan	1
33	Universitas Ciputra Surabaya	1
33	Wildlife Research Center of Kyoto University	1
34	Zes Rokman Resources	1
35	University of Cambridge, United Kingdom	1
36	Bahagian Penyelidikan Dan Sokongan Teknikal, Kementerian Kesihatan, Malaysia	1
37	Leiden University Medical Center, The Netherland	1
38	Duke–National University of Singapore Medical School, Singapore	1
39	Universiti Malaysia Terengganu	1
40	Institute of Farm Animal Genetics, Germany	1
41	Institut Biodiversiti Veterinar Kebangsaan	1
42	Walailak University, Thailand	1
43	Malaysia Genome Institute	1
44	Arizona State University, United States	1
45	Universiti Malaysia Pahang	1
46	Crop Science Department, Teagasc, Ireland	1
47	Genetic Counselling Society Malaysia	1
48	Malaysian Society of Animal Production Animal Genetics	1
49	Analisa Resources Sdn Bhd	2
50	Centogene	1
51	Asia Pacific, Pacific Bioscience	1
52	QIAGEN Malaysia	1

D. SCIENTIFIC COMMITTEE REPORT

1. Scientific Committee Members

- Total of 17 committee members for MiGC14 2021 Conference are as follows:

No.	Name	Institutions
1	Ts. Dr. Azzreena Mohamad Azzeme (Chairman)	UPM
2	Professor Dr. Abd Rahman Milan	UMS
3	Professor Dr. Zarina Abdul Latiff	UKM
4	Professor Dr. Zilfalil Alwi	USM
5	Professor Dr. Thong Meow Keong	UMMC
6	Assoc. Professor Dr. Chan Soon Choy	Perdana University
7	Assoc. Professor Dr. Norshariza Nordin	UPM
8	Assoc. Professor Ts Dr. Shamsiah Abdullah	UiTM
9	Assoc. Professor Dr. Zarina Zainuddin	IIUM
10	Assoc. Professor Dr. Azwan Awang	UMS
11	Assoc. Professor Dr. Mohd Hasnain Bin Md Hussain	UNIMAS
12	Assoc. Professor Dr. Teoh Seong Lin	UKM
13	Ts. Dr. Nor' Aishah Hasan	UiTM
14	Dr. Mohd Din bin Amiruddin	MPOB
15	Dr. Mamat Hamidi Kamalludin	UPM
16	Dr. Norwati Muhammad	FRIM
17	Dr. Hasnita Che Harun	UMK

2. MiGC14 2021 Conference Scientific Programme

- Refer **ATTACHMENT 1**
- MiGC14 was held for 3 days and it was breakdown into Symposium 1 until Symposium 8.
- For this time around MiGC14 Conference, special symposium namely Genetics of COVID-19 Infection was initiated under the Symposium 4 held on the second day of the congress (16 March 2021).

3. Invited Speakers


- Invited speakers for MiGC14 2021 Conference was categorised into 4 which is Mendel Lecture, Keynote, Plenary and Lead Paper.
- For Mendel Lecture, Dr. Nik Serena Nik Zainal from University of Cambridge, UK was invited and participate.






Dr. Nik Serena Nik Zainal
University of Cambridge, UK






Title of presentation: Harnessing the value of whole genome sequencing in the management of human cancer



- For Keynote speaker, Datuk Dr. Hishamshah Bin Mohd Ibrahim, Deputy Director General of Health (Research and Technical Support) from Ministry of Health, Malaysia was invited and participate.

	<p>Datuk Dr. Hishamshah Bin Mohd Ibrahim Deputy Director General of Health (Research and Technical Support), Ministry of Health, Malaysia</p> <p>Title of presentation: The genetics of the Malaysian COVID-19 pandemic</p>
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- For Plenary sessions, there were 10 speakers (5 local speakers dan 5 interntaional speakers was invited and participate. The list are as follows:



	<p>Plenary 1:</p> <p>Professor Dr. Sok Ching Cheong University of Malaya, Malaysia</p> <p>Title of presentation: Identification of the genetic vulnerabilities of oral cancers using CRISPR/Cas9 gene editing</p>
	<p>Plenary 2:</p> <p>Professor Dr. Wendy Harwood The John Innes Centre, United Kingdom</p> <p>Title of presentation: Advances in genome editing in cereal crops</p>
	<p>Plenary 3:</p> <p>Professor Dr. Johan den Dunnen Leiden University Medical Center, The Netherland</p> <p>Title of presentation: For a better future - share what you know!</p>



	<p>Plenary 4:</p> <p>Dr. Brande Wulff The John Innes Centre, United Kingdom</p> <p>Title of presentation: Sustainable control of disease resistance – the case for GM wheat</p>
	<p>Plenary 5:</p> <p>Dr. Kevin Ng Kit Siong Forest Research Institute Malaysia, Malaysia</p> <p>Title of presentation: The genome of <i>Shorea leprosula</i> (Dipterocarpaceae) highlights the ecological relevance of drought in aseasonal tropical rainforests</p>
	<p>Plenary 6:</p> <p>Professor Dr. Wang Linfa Duke–National University of Singapore Medical School, Singapore</p> <p>Title of presentation: COVID-19: from virus origin to vaccine</p>
	<p>Plenary 7:</p> <p>Professor Datin Dr. Norlinah Mohamed Ibrahim The National University of Malaysia, Malaysia</p> <p>Title of presentation: Could gene therapies be the long-awaited hope for neurodegenerative diseases?</p>
	<p>Plenary 8:</p> <p>Professor Dato' Dr. Mohd Tajuddin Abdullah Universiti Malaysia Terengganu, Malaysia</p> <p>Title of presentation: Greater Kenyir landscapes and biodiversity bank</p>

	<p>Plenary 9:</p> <p>Dr. Bjoern Petersen Institute of Farm Animal Genetics, Germany</p> <p>Title of presentation: Applications of genome editing in farm animals</p>
	<p>Plenary 10:</p> <p>Assoc. Professor Dr. Faisal Ali Anwarali Khan Universiti Malaysia Sarawak, Malaysia</p> <p>Title of presentation: Evolution and biogeography of Southeast Asian roundleaf bats</p>

- For Lead Paper speakers, on every tracks and symposium, there were 11 speakers invited and participate. The list of speakers are as follows:

	<p>LM1</p> <p>Assoc. Professor Dr. Noor Azmi Shaharuddin Universiti Putra Malaysia, Malaysia</p> <p>Title of presentation: Biochemical evaluations of <i>Zingiberaceae</i> sp. And transcriptomics analysis of UV-irradiated human fibroblast cells for anti-aging effect</p>
	<p>LF1</p> <p>Dr. Dheeraj Rathore, Ireland</p> <p>Title of presentation: <i>Ensifer</i> mediated transformation (EMT) technology for plant genetic improvement</p>
	<p>LB1</p> <p>Dr. Zulkifli Yaakub Malaysia Palm Oil Board, Malaysia</p> <p>Title of presentation: Creating a sustainable oil palm genetic resource</p>

	<p>LM2 Assoc. Professor Dr. Norlelawati A. Talib International Islamic University Malaysia, Malaysia</p> <p>Title of presentation: Molecular genetic testing for cancers in diagnostic laboratory: SASMEC@IIUM experience.</p>
	<p>LF2 Mr. Mohd Hafiz bin Abdul Rahman Institut Biodiversiti Veterinar Kebangsaan, Malaysia</p> <p>Title of presentation: Redevelopment of Mafriwal cattle breed for milk production in Malaysia</p>
	<p>LB2 Assoc. Professor Dr. Potjamarn Suraninpong Walailak University, Thailand</p> <p>Title of presentation: Phylogenetic analysis of Nepenthes in Thailand</p>
	<p>LC1 Datuk Professor Dr. Awang Bulgiba Awang Mahmud University of Malaya, Malaysia</p> <p>Title of presentation: COVID-19 pandemic containment measures in Malaysia</p>
	<p>LC2 Mr. Mohd Noor Mat Isa Malaysia Genome Institute, Malaysia</p> <p>Title of presentation: The genomic surveillance of Malaysia SARS-CoV-2 virus</p>
	<p>LC3 Dr. Rozainanee binti Mohd Zain Institute for Medical Research, Malaysia</p> <p>Title of presentation: COVID-19 diagnostic testing in Malaysia</p>

	<p>LC4 Dr. Hajar Fauzan Ahmad Universiti Malaysia Pahang, Malaysia</p> <p>Title of presentation: Remote sequencing strategy: Decoding D614G mutation of SARS-CoV-2 virus isolated from Pahang, Malaysia Cases</p>
	<p>LC5 Dr. Abdelazeem Elhabyan Arizona State University, United States</p> <p>Title of presentation: Genetics of severe COVID-19</p>

4. Oral and Poster Presentation

- MiGC14 received 26 orals presentation and 38 posters presentation. The follows are the breakdown based on topic tracks and symposium:

Oral	
Track / Symposium	No. of Person
Track 1: Medicine & Health	7
Track 2: Food & Agriculture	6
Track 3: Forestry, Conservation & Biodiversity	12
Symposium 4: Genetics of COVID-19 Infection	1
TOTAL	26

Poster	
Track / Symposium	No. of Person
Track 1: Medicine & Health	21
Track 2: Food & Agriculture	14
Track 3: Forestry, Conservation & Biodiversity	3
TOTAL	38

- Refer **ATTACHMENT 2** and **3** for the orals and posters information.

- All the submitted abstracts were evaluated by the Scientific Committee Members based on their speciality. The list of respective committee members are as follows:

Track 1: Medicine & Health
<ul style="list-style-type: none"> • Professor Dr. Thong Meow Keong (Lead) • Professor Dr. Zilfalil Alwi • Professor Dr. Zarina Abdul Latiff • Assoc. Professor Dr. Chan Soon Choy • Assoc. Professor Dr. Norshariza Nordin • Mrs Sharifah Azween Syed Omar
Track 2: Food & Agriculture
<ul style="list-style-type: none"> • Assoc. Professor Ts. Dr. Shamsiah Abdullah (Lead) • Professor Dr. Abd Rahman Milan • Assoc. Professor Dr. Zarina Zainuddin • Dr. Mohd Din Amiruddin • Ts. Dr. Nor'Aishah Hasan • Ts. Dr. Azzreena Mohamad Azzeme
Track 3: Forestry, Conservation & Biodiversity
<ul style="list-style-type: none"> • Dr. Norwati Muhammad (Lead) • Assoc. Professor Dr. Azwan Awang • Dr. Mamat Hamidi Kamaluddin • Dr Hasnita Che Harun

5. Transaction Persatuan Genetik Malaysia 11 (tPGM11)

- MiGC14 received 11 extended abstracts to be published in tPGM11.
- All extended abstracts were handover to Assoc. Professor Ts. Dr. Shamsiah for further action.
- Sub-Committee for tPGM 11 are as follows:

Chairperson	Professor Dr. Abd Rahman Milan
Members	Assoc. Professor Ts. Dr. Shamsiah Abdullah
	Professor Dr. Thong Meow Keong
	Dr. Norwati Muhammad

6. Appointment of Chairperson MiGC14

- Total of 14 appointed chairpersons to chair every session of symposiums and tracks. The list of respective chairpersons are as follows:

No.	Chairperson	Institution / Organization
1.	Professor Dr. Abd. Rahman Milan	Persatuan Genetik Malaysia
2.	Professor Dr. Zilfalil Alwi	Universiti Sains Malaysia
3.	Professor Dr. Zarina Abd Latiff	Universiti Kebangsaan Malaysia
4.	Professor Dr. Thong Meow Keong	Universiti Malaya
5.	Assoc. Professor Dr. Norshariza Nordin	Universiti Putra Malaysia
6.	Assoc. Professor Ts. Dr. Shamsiah Abdullah	Universiti Teknologi MARA
7.	Dr. Mohd Din Amiruddin	Lembaga Minyak Sawit Malaysia
8.	Assoc. Professor Dr. Zarina Zainuddin	Universiti Islam Antarabangsa Malaysia
9.	Assoc. Professor Dr. Chan Soon Choy	Perdana University
10.	Assoc. Professor Dr. Azwan Awang	Universiti Malaysia Sabah
11.	Dr. Muhammad Aidil Ibrahim	Universiti Teknologi MARA
12.	Dr. Nor'Aishah Hassan	Universiti Teknologi MARA
13.	Dr. Hasnita Che Hassan	Universiti Malaysia Kelantan
14.	Dr. Mamat Hamidi Kamalludin	Universiti Putra Malaysia
15.	Mrs Sharifah Azween Syed Omar	Universiti Kebangsaan Malaysia

7. Oral and Poster Award

- Assoc. Professor Dr. Chan Soon Choy appointed as the moderator for the award session.
- For Oral Award, it was open to students only while for the Poster Award, it is open to all participants of MiGC14 2021 Conference.
- Judges was appointed to evaluate the orals and posters presentation. The list of respective judges are as follows:

No.	Name	Institution / Organization
1.	Assoc. Professor Dr. Chan Soon Choy	Perdana University
2.	Professor Dr. Abd. Rahman Milan	Persatuan Genetik Malaysia
3.	Professor Dr. Zarina Abdul Latiff	Universiti Kebangsaan Malaysia
4.	Professor Dr. Thong Meow Keong	Universiti Malaya
5.	Assoc. Professor Dr. Norshariza Nordin	Universiti Putra Malaysia

6.	Assoc. Professor Dr. Syahida Ahmad	Universiti Putra Malaysia
7.	Assoc. Professor Dr. Zarina Zainuddin	Universiti Islam Antarabangsa Malaysia
8.	Assoc. Professor Dr. Azwang Awang	Universiti Malaysia Sabah
9.	Assoc. Professor Dr. Teoh Seong Lin	Universiti Kebangsaan Malaysia
10.	Dr. Nik Norliza Nik Hassan	Universiti Sains Malaysia
11.	Dr. Mohd Din Amiruddin	Lembaga Kelapa Sawit Malaysia
12.	Ts. Dr. Nor' Aishah Hasan	Universiti Teknologi MARA
13.	Ts. Dr. Azzreena Mohamad Azzeme	Universiti Putra Malaysia
14.	Dr. Mamat Hamidi Kamaluddin	Universiti Putra Malaysia
15.	Dr. Hasnita Che Harun	Universiti Malaysia Kelantan
16.	Dr. Ng Wei Lun	Xiamen University
17.	Mrs Sharifah Azween Syed Omar	Universiti Kebangsaan Malaysia

- Based on the judge's evaluation, the Oral and Poster Awards winners as **ATTCHMENT 4**.
- The winners of both awards category will have received the following amounts (RM) of prices:

i. Oral Awards

Track 1 (Medicine and Health Science)		Track 2 (Food and Agriculture)		Track 3 (Forestry, Conservation and Biodiversity)	
1st prize	RM200	1st prize	RM200	1st prize	RM200
2nd prize	RM150	2nd prize	RM150	2nd prize	RM150
3rd prize	RM100	3rd prize	RM100	3rd prize	RM100

ii. Poster Awards

Track 1 (Medicine and Health Science)		Track 2 (Food and Agriculture)		Track 3 (Forestry, Conservation and Biodiversity)	
1st prize	RM200	1st prize	RM200	1st prize	RM200
2nd prize	RM150	2nd prize	RM150	2nd prize	RM150
3rd prize	RM100	3rd prize	RM100	3rd prize	RM100

8. Career Forum

- MiGC14 2021 Conference also successfully held Career Forum whereby it has been facilitated as a Meet the Experts Session: Career Pathways in Genetics.
- The sessions were moderated by YBhg Professor Dr. Zarina Abd Latiff from Universiti Kebangsaan Malaysia.
- The total of 3 panellist representing Human Genetics, Plants Genetics and Animal Genetics fields invited. The list of panellists are as follows:

Field	Panellist
Human Genetics	Mrs. Yoon Sook-Yee President, Genetic Counseling Society Malaysia
Plants Genetics	Professor Dr. Abd. Rahman Milan President, Genetics Society of Malaysia
Animal Genetics	Professor Dr. Mohamed Ariff Omar Former President, Malaysian Society of Animal Production

E. PUBLICITY & SPONSORSHIPS COMMITTEE REPORT

- The results of the announcements and publicity of the coming conference that have been carried out during the pre-conference period have managed to get participants from 9 public universities which are USM, UPM, UM, UIA, UKM, UMK, UiTM, UMS and Unimas as well as private organizations and international universities such as Nara Institute of Science and Technology, Japan, Wildlife Research Center of Kyoto University and Ciputra University, Surabaya.
- The announcement of the career forum in the field of genetics in the Biomedical Sciences Facebook page that has been done previously has been well received and managed to increase the participation up to 39 participants.
- Total of 5 companies sponsoring the conference. The list and the total of sponsorship are as follows:

No.	Company	Amount (RM)
1	ScienceVision Sdn. Bhd	500.00
2	Analisa Resources (M) Sdn Bhd	4,000.00
3	Research Instrument Sdn Bhd	3,500.00
4	Centogene	975.93
5	Apical Scientific Sdn Bhd	500.00
TOTAL		9,475.93

F. TECHNICAL & GRAPHIC COMMITTEE REPORT

- A total of 3 separate rooms were utilised during the virtual MiGC14 2021 conference.
- ICT infrastructure was provided by the respective IT department USM.
- There were several issues occurred during the conference which are listed below:

No.	Problem	Solutions / Future Improvement
1	Too many different links provided for everyday of sessions.	The same link has been up loaded on the website to make it easier for participants to follow the program throughout the conference. This link is updated the day before the next program. The technical team has informed this to the participants in advance via email.
2	Some speakers did not receive official invitation via email.	The email addresses received by the technical team are emails that are not frequently used by speakers. Alternatively, the technical team was invited manually before the program began using a new one.
3	Chat box or Q&A Some questions raised from participants did not read by the chairperson.	The host has forwarded the questions to the chairperson. However, due to time constraints, there were questions that could not be read to the speaker. There were also speakers answering the question via chat after session.
4	There was also feedback from participants stating that the question did not reach the speakers.	Problem was due to internet network connectivity.
5	Virtual Background The majority of MiGC14 speakers and chairpersons had participated in the trial run prior to the day of the conference. There are only a few of them who do not use a virtual background due to the minimum requirements of insufficient computer hardware and software.	Virtual backgrounds are not required for those who do not meet the minimum requirements for WebEx virtual backgrounds.

- The Participation and Appreciation Certs were prepared in a softcopy and was email to each speakers, participants and committee members.
- The official flyer for MiGC14 2021 Conference is as below:

Final Announcement

MIGC 14



14th Malaysia International Genetics Congress

Virtual Conference

15 - 17 March 2021

Translating Genes for A Better Future

Mendel Lecture Dr. Serena Nik-Zainal



Department of Medical Genetics,
University of Cambridge, UK
Recipient of Dr Josef Steiner
Cancer Research Prize 2019
(commonly dubbed the "Nobel Prize in cancer research")

Keynote speaker



Datuk Dr. Hishamshah Bin Mohd Ibrahim
Deputy Director General of Health
(Research & Technical Support)
Ministry of Health, Malaysia

Special symposium on the genetics of COVID-19 infection

MEET THE EXPERT SESSION: CAREER PATHWAYS IN GENETICS FEE: RM10

Plenary Speakers

Prof. Dr. Sok Ching Cheong, Malaysia | Prof. Dato' Dr. Mohd Tajuddin Abdullah, Malaysia | Prof. Datin Dr. Norlinah Mohamed Ibrahim, Malaysia
Prof. Dr. Johan den Dunnen, The Netherlands | Prof. Dr. Wendy Harwood, United Kingdom | Dr. Bjoern Petersen, Germany
Prof. Dr. Wang Linfa, Singapore | Dr. Kevin Ng Kit Siong, Malaysia | Dr. Brande Wulff, United Kingdom

Invited Speakers

Datuk Prof. Dr. Awang Bulgiba Awang Mahmud, Malaysia | Assoc. Prof. Dr. Noor Azmi Shaharuddin, Malaysia |
Assoc. Prof. Dr. Norlelawati A. Talib, Malaysia | Assoc. Prof. Dr. Potjarn Suraninpong, Thailand | Dr. Zulkifli Yaakub, Malaysia |
Dr. Rozainanee binti Mohd Zain, Malaysia | Dr. Hajar Fauzan Ahmad, Malaysia | Dr. Abdelazeem Elhabyan, United States |
Dr. Dheeraj Rathore, Ireland | Mr. Mohd Noor Mat Isa, Malaysia | Mr. Mohd Hafiz bin Abdul Rahman, Malaysia

Registration Fee

Registration & more info



<https://migc-pgm.com/>

Important Deadlines

Abstract & extended abstract* submission

15 Feb 2021

*Extended abstract will be published in Transactions of Persatuan Genetik Malaysia (TPGM)

Call for papers

ORAL & POSTER

Category:
• Medicine & Health Sciences
• Food & Agriculture
• Forestry, Conservation & Biodiversity

CONFERENCE AWARDS

• Best Oral Award
• Best Poster Award

Student (PGM Member)	: RM100
PGM Member	: RM150
Student (Non-PGM)	: RM120
Non-member	: RM200
Student (International)	: USD50
International	: USD100
Group registration*	: 20% discount



*Group registration is applicable to Genetic Society of Malaysia (PGM) members only. A minimum of 5 PGM members is required for group registration.

All correspondence and further enquiries should be addressed to:
Conference secretariat:

Email: secretariat.migc@gmail.com
Phone: +609-767 6531

G. CONCLUSION

Prepared by,



.....
(Norunaluwar Binti Jalil)

Secretary

MiGC14 Conference 2021

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Date: 24 March 2021

Checked by,



.....
(Dr Nik Norliza Nik Hassan)

Secretariat,

MiGC14 Conference 2021

Email: nnorliza69@gmail.com

Date: 28 March 2021

Verified by,



.....
(Professor Dr. Zilfalil Alwi)

Chairman

MiGC14 Conference 2021

Email: zilfalil@gmail.com

Date: 30 March 2021

15 March 2021 (Monday)

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

	Identification of the Genetic Vulnerabilities of Oral Cancers using CRISPR/Cas9 Gene Editing		
12:00 – 12:30	<p align="center">TRACK 2: Food & Agriculture (Plenary 2)</p> <p align="center">Professor Dr. Wendy Harwood John Innes Centre, UK</p> <p align="center">Advances in Genome Editing in Cereal Crops</p>		
14:00 – 14:30	<p align="center">TECHNOLOGY TALK 1</p> <p align="center"><i>Chairperson:</i> <i>Dr. Muhammad Aidil Ibrahim, Universiti Teknologi MARA</i></p> <p align="center">Vanitha Palaeya (QIAGEN) Analisa Resources (M) Sdn Bhd</p> <p align="center">QIAcuity: The Future is Digital</p>		
SYMPOSIUM 2			
	<p align="center">TRACK 1 Medicine & Health Sciences</p> <p align="center"><i>Chairperson:</i> <i>Assoc. Professor Dr. Norshariza Nordin,</i> <i>Universiti Putra Malaysia</i></p>	<p align="center">TRACK 2 Food & Agriculture</p> <p align="center"><i>Chairperson:</i> <i>Dr Mohd Din Amiruddin, Malaysian Palm Oil Board</i></p>	<p align="center">TRACK 3 Forestry, Conservation & Biodiversity</p> <p align="center"><i>Chairperson:</i> <i>Assoc. Professor Dr. Shamsiah Abdullah,</i> <i>Universiti Teknologi MARA</i></p>
14:30 – 14:50	<p align="center">Lead Paper (LM1)</p> <p align="center">Assoc. Professor Dr. Noor Azmi Shaharuddin Universiti Putra Malaysia, Malaysia</p> <p align="center">Biochemical Evaluations of <i>Zingiberaceae</i> Sp. and Transcriptomics Analysis of UV-</p>	<p align="center">Lead paper (LF1)</p> <p align="center">Dr. Dheeraj Rathore Teagasc, Ireland</p> <p align="center">Ensifer Mediated Transformation (EMT) Technology for Plant Genetic Improvement</p>	<p align="center">Lead Paper (LB1)</p> <p align="center">Dr. Zulkifli Yaakub Malaysian Palm Oil Board, Malaysia</p> <p align="center">Creating A Sustainable Oil Palm Genetic Resource</p>

	Irradiated Human Fibroblast Cells for Anti-Aging Effect		
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 High Yielding Rice Accession 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>OF4 Norzulaiha Binti Abd. Karim Universiti Malaysia Sabah, Malaysia</p>	<p>OB4 Johan Ariff Mohtar Universiti Malaysia Perlis, Malaysia</p>

	The Structural Impact of NLRC4 Q657L Mutation Associated with Spontaneous Inflammasome Activation Using Computational Approaches	Inhibitory Properties of Single Chain 2S Albumin Seed Storage Protein from <i>Theobroma cacao</i>	Molecular Identification of Cave-Dwelling Spiders Indigenous to Gua Kelam, Perlis State Park
15:50 – 16:05	OM5 Sweta Raikundalia Universiti Sains Malaysia, Malaysia MIR-32-5P Controls Cell Apoptosis, Cell Cycle Progression and Wound Repair by Regulating Choline Kinase Alpha Gene Expression	OF5 Rafida Razali Universiti Malaysia Sabah, Malaysia Production, Catalytic and Structural Properties of Codon-optimized Recombinant Bromelain from MD2 Pineapple	OB5 Qi Luan Lim Kyoto University, Japan Genetic Diversity and Phylogenetic Relationship of Malayan Tapir (<i>Tapirus indicus</i>) Populations in the Malay Peninsula Based on the Mitochondrial Control Region
16:05 – 16:20	OM6 Adiratna Mat Ripen Institute for Medical Research Concordance and Discordance between Whole-Exome Sequencing Findings and Clinical Diagnoses for Inborn Errors of Immunity	OF6 Azzreena Mohamad Azzeme Universiti Putra Malaysia Phenolics and Their Actions in Regulating Expression of Browning Associated Genes and Vegetative Growth of <i>In Vitro</i> Banana	OB6 Muhammad Fadli Bin Mazlan Universiti Teknologi MARA, Malaysia Sequence Analysis of Civet Species using Cytochrome
16:20 – 17:35	POSTER VIEWING		

16 March 2021 (Tuesday)

SYMPOSIUM 3

Chairperson:

*Associate Professor Dr. Zarina Zainuddin, International Islamic University
Malaysia*

9:00 – 9:30	<p>TRACK 1: Medicine & Health Sciences (Plenary 3)</p> <p>Professor Dr. Johan den Dunnen Leiden University Medical Center (LUMC), Netherland</p> <p>For A Better Future - Share What You Know!</p>
9:30 – 10:00	<p>TRACK 2: Food & Agriculture (Plenary 4)</p> <p>Dr. Brande Wulff John Innes Centre, UK</p> <p>Sustainable Control of Disease Resistance – the Case for GM Wheat</p>
10:00 – 10:30	<p>TRACK 3: Forestry, Conservation & Biodiversity (Plenary 5)</p> <p>Dr Kevin Ng Kit Siong Forest Research Institute Malaysia, Malaysia</p> <p>The Genome of <i>Shorea leprosula</i> (Dipterocarpaceae) Highlights the Ecological Relevance of Drought in Aseasonal Tropical Rainforests</p>

SYMPOSIUM 4

Genetics of COVID-19 Infection

Chairperson:

Professor Dr. Thong Meow Keong, University of Malaya

10:30 – 11:00	<p>Plenary 6</p> <p>Professor Dr. Wang Linfa Duke–NUS Medical School, Singapore</p>
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COVID-19: From Virus Origin to Vaccine	
11:00 – 11:20	<p style="text-align: center;">Lead Paper (LC1)</p> <p style="text-align: center;">Datuk Professor 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)</p> <p style="text-align: center;">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)</p> <p style="text-align: center;">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)</p> <p style="text-align: center;">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)</p> <p style="text-align: center;">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)</p> <p style="text-align: center;">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

14:00 – 15:30	<p align="center">Meet the Experts Session: Career Pathways in Genetics</p> <p align="center">Moderator: Dr. Norwati Muhammad Deputy Director General (Research) Forest Research Institute Malaysia</p> <p align="center">Panelist 1 Mrs. Yoon Sook-Yee President Genetic Counseling Society Malaysia (Human Genetics)</p> <p align="center">Panelist 2: Professor Dr. Abdul Rahman Milan President Genetics Society of Malaysia (Plant Genetics)</p> <p align="center">Panelist 3: Professor Dr. Mohamed Ariff Omar Former President Malaysian Society of Animal Production (Animal Genetics)</p>
15:30 – 17:00	<p>PGM 26th Annual General Meeting <i>(For PGM Members)</i></p>
15:00 – 17:00	POSTER VIEWING

17 March 2021 (Wednesday)

SYMPOSIUM 5

Chairperson:

Assoc. Professor Dr. Chan Soon Choy, Perdana University

9:00 – 9:30	<p>TRACK 1 Medicine & Health Sciences (Plenary 7)</p> <p>Professor 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>Professor 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

	<p>TRACK 1 Medicine & Health Sciences</p> <p><i>Chairperson:</i> <i>Puan Sharifah Azween,</i> <i>Universiti Kebangsaan Malaysia</i></p>	<p>TRACK 2 Food & Agriculture</p> <p><i>Chairperson:</i> <i>Assoc. Professor Dr. Azwan Awang,</i> <i>Universiti Malaysia Sabah</i></p>	<p>TRACK 3 Forestry, Conservation & Biodiversity</p> <p><i>Chairperson:</i> <i>Dr. Nor'Aishah Hassan,</i> <i>Universiti Teknologi MARA</i></p>
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10:30 – 10:50	<p>Lead paper (LM2)</p> <p>Assoc. Professor Dr. Norlelawati A. Talib International Islamic University Malaysia, Malaysia</p> <p>Molecular Genetic Testing for Cancers in Diagnostic Laboratory: SASMEC@IIUM experience</p>	<p>Lead paper (LF2)</p> <p>Mohd Hafiz bin Abdul Rahman Institut Biodiversiti Veterinar Kebangsaan, Malaysia</p> <p>Redevelopment of Mafriwal Cattle Breed for Milk Production in Malaysia</p>	<p>Lead Paper (LB2)</p> <p>Assoc. Professor Dr. Potjamarn Suraninpong, Walailak University, Thailand</p> <p>Phylogenetic Analysis of Nepenthes in Thailand</p>
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SYMPOSIUM 7

Chairperson:

Dr. Hasnita Che Hassan, Universiti Malaysia Kelantan

10:50 – 11:05	<p style="text-align: center;">OB7</p> <p style="text-align: center;">Merrie Corette Charles Management & Science University, Malaysia</p> <p>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</p>
11:05 – 11:20	<p style="text-align: center;">OB8</p> <p style="text-align: center;">Bak Zaibah binti Fazal Universiti Malaysia Sabah, Malaysia</p> <p>Screening, Isolation and Characterization of Bacteria Producing Thermostable α-Amylases from Sabah Hot Springs</p>
11:20 – 11:35	<p style="text-align: center;">OB9</p> <p style="text-align: center;">Muhd Amsyari Morni Universiti Malaysia Sarawak, Malaysia</p> <p>Assessing the Genetic Diversity Within <i>Crocidura monticola</i> Species Complex (Soricidae: Crocidurinae) Using mtDNA Cytochrome b Sequences</p>
11:35 – 11:50	<p style="text-align: center;">OB10</p> <p style="text-align: center;">Nurshabrina Aida binti Yahya Universiti Malaysia Sabah, Malaysia</p>

	Genome Analysis of <i>Thermoflavifilum aggregans</i> and Characterization of its Cellulase Degrading Enzyme
11:50 – 14:00	POSTER VIEWING
SYMPOSIUM 8 <i>Chairperson:</i> <i>Dr. Mamat Hamidi Kamalludin, Universiti Putra Malaysia</i>	
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. Professor 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: <i>Crocidura foetida</i>) 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 <i>GSTP1</i> functional polymorphism with methamphetamine dependence and associated symptoms in a multiethnic Malaysian population
15:45 – 16:45	<i>Emcee:</i> <i>Dr. Muhammad Aidil Ibrahim, Universiti Teknologi MARA</i> CLOSING CEREMONY

LIST OF ORAL PRESENTATION

ORAL ID	PRESENTER	PAPER TITLE
Track 1: Medicine and Health Sciences		
OM1	Rifhan Azwani Mazlan University Malaya Medical Centre	Non-directiveness in Genetic Counselling in Prenatal Diagnosis and Termination of Pregnancy
OM2	Jonathan Jun-Yong Lim Nara Institute of Science and Technology	Investigation of CRISPR-Cas9 as A Novel Method to Generate Organ-Deficient Mouse Model
OM3	Izzah Syahira Omar Universiti Sains Malaysia	A Study on Rapidly Mutating Y-Str Among Male Monozygotic Twins
OM4	Chai Teng Chear National Institutes of Health	The Structural Impact of NLRC4 Q657L Mutation Associated with Spontaneous Inflammasome Activation Using Computational Approaches
OM5	Sweta Raikundalia Universiti Sains Malaysia	MIR-32-5P Controls Cell Apoptosis, Cell Cycle Progression and Wound Repair by Regulating Choline Kinase Alpha Gene Expression
OM6	Adiratna Mat Ripen Institute for Medical Research	Concordance and Discordance between Whole-Exome Sequencing Findings and Clinical Diagnoses for Inborn Errors of Immunity
OM7	Hasif Adli Zakariah University of Malaya	Association analysis of a <i>GSTP1</i> functional polymorphism with methamphetamine dependence and associated symptoms in a multiethnic Malaysian population
Track 2: Food & Agriculture		
OF1	Izwan Bharudin Universiti Kebangsaan Malaysia	Mating-Type Genes in <i>Ganoderma boninense</i>
OF2	Aliif Ihsaan Akmal Shukri Universiti Teknologi MARA	Genetic Diversity of Malaysia Upland Rice Accessions Based on Agro-morphological Traits
OF3	Hazel Marie Kugan University of Malaya	Progress in Pulse Crop Genetics for a Sustainable Food Future
OF4	Norzulaiha Binti Abd. Karim Universiti Malaysia Sabah	Inhibitory Properties of Single Chain 2S Albumin Seed Storage Protein from <i>Theobroma cacao</i>
OF5	Rafida Razali Universiti Malaysia Sabah, Malaysia	Production, Catalytic and Structural Properties of Codon-optimized Recombinant Bromelain from MD2 Pineapple

OF6	Azzreena Mohamad Azzeme Universiti Putra Malaysia	Phenolics and Their Actions in Regulating Expression of Browning Associated Genes and Vegetative Growth of <i>In Vitro</i> Banana
Track 3: Forestry, Conservation & Biodiversity		
OB1	Salmah Yaakop Universiti Kebangsaan Malaysia	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
OB2	Juanita Joseph Universiti Malaysia Sabah	Genetic Techniques as a Tool in Understanding the Biology of Marine Turtles for Better Conservation Management in Malaysia
OB3	Muhd Nazmi Amir Mazlan Universiti Kebangsaan Malaysia	Phylogenetic Relationship of Red Junglefowl (<i>Gallus gallus</i>) in Peninsular Malaysia
OB4	Johan Ariff Mohtar Universiti Malaysia Perlis	Molecular Identification of Cave-Dwelling Spiders Indigenous to Gua Kelam, Perlis State Park
OB5	Qi Luan Lim Universiti Putra Malaysia	Genetic Diversity and Phylogenetic Relationship of Malayan Tapir (<i>Tapirus indicus</i>) Populations in the Malay Peninsula based on the Mitochondrial Control Region
OB6	Muhammad Fadli Bin Mazlan Universiti Teknologi MARA	Sequence Analysis of Civet Species Using Cytochrome
OB7	Merrie Corette Charles Management and Science University	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
OB8	Bak Zaibah binti Fazal Universiti Malaysia Sabah	Screening, Isolation and Characterization of Bacteria Producing Thermostable α -Amylases from Sabah Hot Springs
OB9	Muhd Amsyari Morni Universiti Malaysia Sarawak	Assessing The Genetic Diversity Within <i>Crocidura monticola</i> Species Complex (Soricidae: Crocidurinae) Using mtDNA Cytochrome b Sequences
OB10	Nurshafrina Aida binti Yahya Universiti Malaysia Sabah	Genome Analysis of <i>Thermoflavifilum aggregans</i> and Characterization of its Cellulase Degrading Enzyme
OB11	Julius William-Dee Universiti Malaysia Sarawak	Phylogeography of the Bornean Shrew (Family Soricidae: <i>Crocidura foetida</i>) Inferred from Cytochrome B Gene Sequences and Cranio-dental Data

OB12	Nor Al-Shuhadah Binti Sabarudin Universiti Malaysia Sarawak	Genetic, Morphology and Echolocation Variation within Bamboo Bats in Malaysia
Genetics of COVID-19 Infection		
OC1	Saidatul Wahidah Maisin Universiti Malaysia Sabah	Development of RT-PCR for Detection Of COVID-19 from Saliva in Accordance to ISO 17025:2015: A Quality Practice And Trust In Results

LIST OF POSTER PRESENTATION

POSTER ID	PRESENTER	PAPER TITLE
Track 1: Medicine and Health Sciences		
PM1	Rhanye Mac Guad Universiti Malaya	Association of Anti-Inflammatory Cytokine Interleukin-10 Gene Polymorphism with Dengue in Sabah Population
PM2	Nur Nashyiroh Mastor Universiti Malaysia Sabah	Whole genome sequencing of an <i>Enterococcus faecalis</i> Isolate from A Patient with Cholecystitis in A Tertiary Hospital in Kota Kinabalu, Sabah, Malaysia
PM3	Latifah Ibrahim National Institutes of Health	Endpoint PCR Assay for Rapid Detection of Leptospira Strains from Digestive Tract Samples from Cockroaches
PM4	Nazmul Huda Syed Universiti Sains Malaysia	MicroRNA Microarray Expression Profiling in Tears of Children with Vernal Keratoconjunctivitis
PM5	Siti Aishah Abdul Wahab Institute for Medical Research	Characterization of <i>G6PC</i> Mutations in 12 Patients with Glycogen Storage Disease 1a
PM6	Muttiah Barathan University of Malaya	Hyperforin Induces Cell Death in Triple Negative Breast Carcinoma Cells and Upregulates Pro-Apoptotic Genes
PM7	Affandi Omar National Institute of Health	Lysosomal Acid Lipase Activity in Leucocytes Using 4-Methylumbelliferyl Palmitate for Diagnosis of Wolman Disease and Cholesteryl Ester Storage Disease
PM8	Fatimah Diana Amin Nordin National Institute of Health	Distribution of Neuraminidase Activity in Fibroblasts from Postmortem Samples
PM9	Lua Seok Hian National Institute of Health	Two Novel Mutations in <i>Bscl2</i> and <i>Agpat2</i> Genes Identified in Three Malaysian Families with Berardinelli-Seip Congenital Lipodystrophy
PM10	Kalidasan Vasodavan Universiti Sains Malaysia	Investigating the Antiviral Activity of CRISPR-Mediated Upregulation of Schalfen 11 (SLFN11) Against HIV-1 Infected Cells
PM11	Yusnita Yakob Institute for Medical Research	Laboratory Diagnosis of The Five Common Spinocerebellar Ataxias (Type 1, 2, 3, 6 and 7) in Institute for Medical Research (IMR): Malaysia Experience
PM12	Nor Azimah Abdul Azize Institute for Medical Research	FGFR2 Gene Mutations in Malaysian Patients with Associated Clinical Features of Apert Syndrome and Crouzon Syndrome

PM13	Ilia Nazihah Mohamad Ayob National Institute of Health	Characterization of Six Novel Mutations in <i>ALPL</i> Gene of Three Unrelated Malaysian Families with Hypophosphatasia
PM14	Mohd Farid Baharin Institute for Medical Research	<i>STAT3</i> Gain of Function Mutation Presenting as Lymphoproliferative Syndrome
PM15	Nur Hafiza Binti Md Yusop Department of Chemistry Malaysia Johor State	Study of DNA Degradation in Time-Bound Bone Powder Specimen
PM16	Norashareena Mohamed Shakrin National Institute of Health Malaysia	Determination of 5- Methyltetrahydrofolate in Cerebrospinal Fluid (CSF) by High Performance Liquid Chromatography with Fluorescence Detection for Diagnosis of Dihydropteridine Reductase Deficiency
PM17	Ernie Zuraida Ali National Institute of Health Malaysia	Detection of Mutations in <i>katG</i> and <i>inhA</i> gene of <i>Mycobacterium tuberculosis</i> from Malaysia Clinical Isolates
PM18	Wan Dalila Wan Chik Institute for Medical Research	Chronic Mucocutaneous Candidiasis Diseases with <i>STAT1</i> Gain-Of-Function Mutation
PM19	Lee Ping Chin Universiti Malaysia Sabah	Prevalence of Thalassemia in Southeast Asia
PM20	Norshariza Nordin Universiti Putra Malaysia	Prospective Paracrine Mediation of Brain Derived Neurotrophic Factor (BDNF) on Neurogenic Enhancement of Amniotic Fluid Stem Cells (AFSCs) Treated with <i>Centella asiatica</i>
PM21	Nadia Iryani Najri Universiti Malaysia Sabah	Preliminary Data on The Expression Profiles of Micrnas in Dengue Patients Infected with Denv-1 Serotype
Track 2: Food & Agriculture		
PF1	Nor Farah Nadirah Ahmad Noruddin Universiti Teknologi MARA	Agro-Morphological Characterization Of M ₁ V ₃ Generations of Local Taro Variety (<i>Colocasia Esculenta</i> L. Wangi) Mutant Lines
PF2	Mohd. Hafiz Bin Abd. Wahab Malaysian Agricultural Research and Development Institute	Multivariate Analysis of Biometric Traits in Male Katjang-Boer Crossbred Goat
PF3	Nik Siti Mariani W Hamat Universiti Malaysia Kelantan	Effect of Organic Selenium Supplementation on the Sperm Quality of Matured Boer Bucks
PF4	Faiz Ahmad Universiti Kebangsaan Malaysia	Survival Rate Under Submergence Stress and Molecular Genotyping of New Rice Mutant Varieties NMR 151 and NMR 152 Using SSR Marker Linked to <i>SUB1</i> Gene

PF5	Musherah Binti Khusaini Universiti Malaysia Sabah	Development of Visual Detection Method for Detection of White Spot Syndrome Virus
PF6	Norziha Abdullah Malaysian Palm Oil Board	Performance of Selfed and Reciprocal Intercrossed Oil Palm Deli Ulu Remis Progenies Based on Selected Agronomic Traits
PF7	Khairul Nizam Bin Sehat Universiti Malaysia Sabah	Identification of MicroRNA in Pineapple via High-Throughput Sequencing
PF8	Eric Tzyy Jiann Chong Universiti Malaysia Sabah	Transformation of Sabah Traditional Rice for Combating Blast Disease
PF9	Nor'Aishah Hasan Universiti Putra Malaysia	Genetic Analysis of Yield and Yield Contributing Traits in Rice (<i>Oryza sativa</i> L.) BC ₂ F ₃ Population Derived from MR264 × PS2
PF10	Joanna Ling Siaw Jing Universiti Malaysia Sabah	Assessing Farm Animals Susceptibility towards SARS-CoV-2 through Proteomics - A proposal
PF11	Nurazalia Mohamad Ali Universiti Malaysia Sabah	Preparation of Protein Extraction from <i>Metroxylon sagu</i> Rottb. soft shoot base tissue for Two-Dimensional Electrophoresis Analysis
PF12	Siti Norvahida Hisham Universiti Kebangsaan Malaysia	The Effect of Drought Stress on Agronomical and Physiological Traits of Malaysian Rice Varieties
PF13	Siti Nurdiyana Yusof Universiti Kebangsaan Malaysia	Polymorphism Survey Between Mahsuri Mutant and Tetep Using SSR Markers
PF14	M. Asyraf Md. Hatta	Extensive genetic variation at the <i>Sr22</i> wheat stem rust resistance gene locus in the grasses revealed through evolutionary Genomics and functional analyses
Track 3: Forestry, Conservation & Biodiversity		
PB1	Munirah Adibah Kamarul Zaman Universiti Putra Malaysia	Alkaloid Production in Callus of <i>Polyalthia bullata</i> and Its Potential in Metabolic Engineering
PB2	Siti Nurhafizah Ramli Universiti Putra Malaysia	Elicitation Effect on Alkaloid Production in <i>Polyalthia bullata</i> Callus at Different Growth Incubation Time
PB3	Nurfazlinyana Normanshah Universiti Putra Malaysia	Mutation Induction of <i>Spathoglottis plicata</i> by Chemical Mutagen

ATTACHMENT 4**RESULTS FOR ORAL PRESENTATION****Track 1: Medicine & Health Science**

	Oral ID	Score	Presenter	Institution	Title
1st prize	OM2	80.5	Jonathan Jun-Yong Lim	Nara Institute of Science & Technology, Japan	Investigation of CRISPR-Cas9 as A Novel Method to Generate Organ-Deficient Mouse Model
2nd prize	OM4	74.5	Chai Teng Chear	National Institutes of Health	The Structural Impact of NLRC4 Q657L Mutation Associated with Spontaneous Inflammasome Activation Using Computational Approaches
3rd prize	OM7	74.0	Hasif Adli Zakariah	University of Malaya	Association analysis of a GSTP1 functional polymorphism with methamphetamine dependence and associated symptoms in a multiethnic Malaysian population.

Track 2: Food & Agriculture

	Oral ID	Score	Presenter	Institution	Title
1st prize	OF2	81.0	Aliif Ihsaan Akmal Shukri	Universiti Teknologi MARA	Genetic Diversity of Malaysia Upland Rice Accessions Based on Agro-morphological Traits
2nd prize	OF5	77.5	Rafida Razali	Universiti Malaysia Sabah	Production, Catalytic and Structural Properties of Codon-optimized Recombinant Bromelain from MD2 Pineapple
3rd prize	OF4	74.0	Norzulaiha Binti Abd. Karim	Universiti Malaysia Sabah	Inhibitory Properties of Single Chain 2S Albumin Seed Storage Protein from Theobroma cacao

Track 3: Forestry, Conservation and Biodiversity

	Oral ID	Score	Presenter	Institution	Title
1st prize	OB5	96.0	Qi Luan Lim	Kyoto University, Japan	Genetic Diversity and Phylogenetic Relationship of Malayan Tapir (<i>Tapirus indicus</i>) Populations in the Malay Peninsula based on the Mitochondrial Control Region
2nd prize	OB9	91.0	Muhd Amsyari Morni	Universiti Malaysia Sarawak	Assessing The Genetic Diversity Within <i>Crocidura monticola</i> Species Complex (<i>Soricidae: Crocidurinae</i>) Using mtDNA Cytochrome b Sequences
3rd prize	OB12	88.5	Nor Al-Shuhadah Binti Sabarudin	Universiti Malaysia Sarawak	Genetic, Morphology and Echolocation Variation within Bamboo Bats in Malaysia

RESULTS FOR POSTER PRESENTATION

Track 1: Medicine & Health Science

	Poster ID	Score	Presenter	Institution	Title
1st prize	PM18	83.6	Wan Dalila Wan Chik	Institute for Medical Research	Chronic Mucocutaneous Candidiasis Diseases with STAT1 Gain-Of-Function Mutation
2nd prize	PM17	81.1	Ernie Zuraida Ali	National Institute of Health Malaysia	Detection of Mutations in katG and inhA gene of Mycobacterium tuberculosis from Malaysia Clinical Isolates
3rd prize	PM16	79.1	Norashareena Mohamed Shakrin	National Institute of Health Malaysia	Determination of 5-Methyltetrahydrofolate in Cerebrospinal Fluid (CSF) by High Performance Liquid Chromatography with Fluorescence Detection for Diagnosis of Dihydropteridine Reductase Deficiency

Track 2: Food & Agriculture

	Poster ID	Score	Presenter	Institution	Title
1st prize	PF13	76.2	Siti Nurdiyana Yusof	Universiti Kebangsaan Malaysia	Polymorphism Survey Between Mahsuri Mutant and Tetep Using SSR Markers
2nd prize	PF8	75.0	Eric Tzyy Jiann Chong	Universiti Malaysia Sabah	Transformation of Sabah Traditional Rice for Combating Blast Disease
3rd prize	PF14	74.6	Muhammad Asyraf Md Hatta	Universiti Putra Malaysia	Extensive genetic variation at the Sr22 wheat stem rust resistance gene locus in the grasses revealed through evolutionary Genomics and functional analyses

Track 3: Forestry, Conservation and Biodiversity

	Poster ID	Score	Presenter	Institution	Title
1st prize	PB2	79.6	Siti Nurhafizah Ramli	Universiti Putra Malaysia	Elicitation Effect on Alkaloid Production in Polyalthia bullata Callus at Different Growth Incubation Time
2nd prize	PB1	72.9	Munirah Adibah Kamarul Zaman	Universiti Putra Malaysia	Alkaloid Production in Callus of Polyalthia bullata and Its Potential in Metabolic Engineering
3rd prize	PB3	64.7	Nurfazlinyana Normanshah	Universiti Putra Malaysia	Mutation Induction of Spathoglottis plicata by Chemical Mutagen