

CURRICULUM VITAE

i. Full Name : NORAZAH MOHAMMAD NAWAWI

ii. Academic Qualifications:

No.	Academic Qualification	Institution/Country	Year of Graduation
1	Doctor of Philosophy (Biotechnology)	UPM, Malaysia	2016
2	Master of Science (Genetics)	UKM, Malaysia	2004
3	Bachelor of Science (Molecular Biology-Microbiology)	UKM, Malaysia	1999

iii. Current Professional Membership:

No.	Professional Body	Position/Title	Year
1	National STEM Association	Secretary	2019-to date

iv. Current Teaching and Administrative Responsibilities:

a. Current Subject(s) taught :

No.	Code	Name Of Subject
1	FKA 1221	Chemistry Laboratory Ii
2	FUA 1332	Basic Genetic And Biodiversity
3	MPU 3472	Green Awareness And Sustainability Community
4	MPU 3143	Bahasa Melayu Komunikasi Ii
5	MPU 2143	Bahasa Melayu Komunikasi I
6	MPU2422	Event Management
7	MPU2452	Community Service

b. Administrative Responsibilities :

No.	Description	Date
1	Program Coordinator, Foundation in Science, UNISEL	2018-to date
2	Research Fellow Institute Bio-IT Selangor, UNISEL	2018
3	Laboratory Coordinator (Industrial Biotechnology & Green Chemistry) Institute Bio-IT Selangor, UNISEL	2008-to date
4	Secretariat Women in Science Program Institute Bio-IT Selangor, UNISEL	2012-to date
5	Head of Program, Bachelor of Biotechnology Industry	2005-2007

v. Previous Employment:

No.	Employer Name and Address	Position	Years	
			Start	End
1	Universiti Selangor	Lecturer	2004	2010

2	Malaysia Agriculture Research Institute	Research Officer	2003	2004
3	Universiti Kebangsaan Malaysia	Research Assistant	2000	2002

vi. Conferences and Training:

No.	Title	Venue	Date
1	Training on Molecular Biology Technique	Faculty of Life Sciences, University of Manchester, UKM	17 November 2012-24 December 2012
2	Training on Genomic & Molecular Biology Evolution	Department of Genetics, University of Cambridge, UK	1-30 July 2008
	Culture Collection Requirement Bangkok Culture Collection	Bangkok Thailand	15-19 December 2008
3	Secretariat, International Conference on Life Sciences Revolution 2016	Concorde Hotel, Shah Alam	29-30 November 2016
4	Director, Women in Science International Seminar		
	International Conference On Science Technology, Engineering And Management	Chennai, India.	,26-27 March 2015
5	Treasurer, International Conference on Life Sciences Revolution 2015	Concorde Hotel, Shah Alam	24-25 November 2015
6	Mentor-Mentee STEM Program	Selangor	October-November 2017
7	1 st National STEM Seminar	Universiti Malaya	31 July-1 August 2018
8	3rd International Conference on Biosciences	GC Universiti Lahore, Pakistan.	9 -11 Mei 2018
9	2019 Classroom Teaching Research for All Students Conference (CTRAS)	Normal Beijing University, China	28-30 th June 2019,
10	3rd International Conference on Molecular Biology and Biotechnology 2019 (ICMBB2019)	UCSI Kuala Lumpur	24-25 th April 2019
11	Persidangan Kebangsaan Pengajian Asasi dan Umum (Persepadu 2019)	UNISEL	November 2019
12	National Pre-University Seminar (NPREUS) 2019	KUIS	23 October 2019

vii. Research and Publications:

No.	Title	Year
	Research Project	
1	Exploitation of marine microorganism from Pulau Jemor for discovery of natural products	2006-2008
2	Building of Genomics-Led Green Chemistry for Industrial Biotechnology:	2008-2010
3	Establishment of Microbial Culture Collection of Institute Bio-IT Selangor, UNISEL	2009-2010
4	Biodegradation of Phenol in <i>Rhodococcus</i> spp. Isolated from Peninsular Malaysia	2009-2016

5	Bioprospecting Of Local Isolated Microalgae For Natural Products Recovery	2017-to date
6	Development of Natural-Based Disinfectant for Control of Pathogenic Organism in Freshwater Fish	2017-to date
7	Natural Pigment from Microalgae from Selangor, Malaysia (Leader) December 2018-June 2020 Fund: Selangor State Government, Malaysia	2018-to date
8	High cell density cultivation of <i>Rhodococcus</i> sp. for the production of lipase from waste cooking oil and its application as halal food biocatalyst (Member) December 2018-June 2020 Fund: Selangor State Government, Malaysia	2018-to date
9	Antibacterial Potential of Biosynthesized Silver Nano particle Against Aquatic Pathogen	2020-2023
	Publication (Book/Chapter in a Book)	
7	<i>Rhodococcus</i> UKMP-5M: A Versatile Bioremediation Microorganism. September 2016 In book: Biodegradation: Properties, Analysis and Performance, Edition: 2016-4th Quarter, Chapter: <i>Rhodococcus</i> UKMP-5M: A Versatile Bioremediation Microorganism, Publisher: Nova Science Publishers, Editors: Jaime Alvarez, pp.258	2016
	Publication (Journal)	
8	Iswandi Harahapi, , Abdul Salam @ Zulkifli B. Muhamad Shukriiii, Mohammad Aizat Jamaludin, Norazah Mohammad Nawawi. The concept of Tahawwul as a Determinant for Ruling of Halal for Food and Beverages Produced Through Fermentation Process. <i>Al-Qanadir</i> . 17(1): 29-39.	2020
9	Iswandi Harahap, Abdul Salam @ Zulkifli B. Muhamad Shukri, Mohammad Aizat Jamaludin, Norazah Mohammad Nawawi, Rozila Alias And Zaharim, A. The Application Of Tahawwul (Transformation) Process For Determination Of Vinegar Status In The Malaysia Market. <i>Food Research</i> . 4(3):896-905.DOI:10.26656/Fr.2017.4(3).393	2020
10	Norazah Mohammad Nawawi, Saraswathy Selvakumar, Norasyiqin Bakeri, Noor Azmahera Ghafar, Roshani Othman, Farah Nazuha Mansor, Nor Suhaila Yaacob, Noor Azlin Mokhtar. Preliminary Extraction Of Chlorophyll A And B From Micro Algae Isolated From Selangor Sea Water. <i>Selangor Science & Technology Review (SeSTeR)</i> . 4(1).	2020
11	Rozila Alias, Thivyah Karunageran, Maimunah Mustakim, Siti Nurfatehah Kamal, Siti Hasmah Mohtar, Siti Rahayu Hassan, Murni Salina, Siti Amalina Ahmad Khairuddin, Hasliza Muhammad Ali, Norazah Mohammad Nawawi, Mohd Nizam Lani and Abdul Latif Ibrahim. Evaluation of Ampicillin, Vancomycin and Gentamycin Antibiotic Resistant Among Lactobacillus Isolates (2019) <i>Journal of Academia Uitm Negeri Sembilan</i> . 7(2): 104-111.	2019
12	Hazeeq Hazwan Azman, Maegala Nallapan Maniyam, Marini Ibrahim, Hasdianty Abdullah, Khairil Bariyyah Hassan, Hasnur Hidayah Kamaruddin, Rahayu Md. Khalid, Norhisyam Mat Sout, Norazah Mohammad Nawawi, Normawati@Nadzirah Abu Samah, Rozila Alias, Nor	2019

	Suhaila Yaacob, Yusmi Mohd Yunus, Noraini Idris. Stem Outreach Via Science Forensic Module-The Impact Of The Near-Peer Mentoring Approach (2019). Southeast Asian Mathematics Education Journal. 1(1): 77-80.	
13	Siti Aqlima Ahmad, Gayathrie Asokan, Nur Adeela Yasid, Norazah Mohammad Nawawi, Kavilasni Subramaniam, Nur Nadhirah Zakaria, Mohd Yunus Syukor (2018) Effect of Heavy Metals on Biodegradation of Phenol by antarctica bacterium: <i>Arthrobacter bambusae</i> strain AQ5-003. <i>Malaysian Journal of Biochemistry and Molecular Biology</i> . 2: 47-58.	2018
14	Nur Nadhirah Zakaria, Siti Aqlima Ahmad, Lee, Gillian Li Yin, Nur Adeela Yasid, Manogaran, Motharasan, Subramaniam, Kavilasni, Tengku Athirrah Tengku Mazuki, Norazah Mohammad Nawawi, Mohd Yunus Shukor (2018) Effect of Heavy Metals on Biodegradation of Phenol by antarctica bacterium: <i>Rhodococcus baikonurensus</i> strain AQ5-001 in the presence of heavy metals. <i>Malaysian Journal of Biochemistry and Molecular Biology</i> . 3: 40-48.	2018
15	Norazah M.N. , Ahmad, S.A., Latif, A.I. 2017. Effect of Different Phenol Concentration on Phenol Degradation by <i>Rhodococcus</i> spp. <i>Fundamental and Applied Life Sciences</i> . 7 (1) January-March: 39-44	2017
16	Norazah M.N. , Ahmad, S.A. Shukor, M.Y., Syed, M.A., Latif, A.I. 2016. Statistical Optimisation for Improvement of Phenol Degradation by <i>Rhodococcus</i> sp. NAM 81. <i>Journal of Environmental Biology</i> .	2016
17	Norazah M.N. , Maegala N.M, Ahmad, S.A. Shukor, M.Y., Syed, M.A., Latif, A.I. 2016. Biotransformation of phenol y the resting cells of <i>Rhodococcus</i> sp. NAM 81. <i>Indian Journal of Fundamental and Applied Life Sciences</i> , 6 (1) January-March: 101-107	2016
18	Norazah M.N. , Ahmad, S.A. Shukor, M.Y., Syed, M.A., Latif, A.I. 2015. Immobilisation Rhodococcal cells: A competent approach for phenol degradation by <i>Rhodococcus</i> sp. NAM 81. <i>Journal Of Pure And Applied Microbiology</i> 9(2): 1301-1316.	2015
19	Norazah M.N. , Ahmad, S.A. Shukor, M.Y., Syed, M.A., Latif, A.I. 2015. Disrupting <i>Rhodococcus</i> sp.: A competent method for genomics and proteomics. <i>Journal of Chemical and Pharmaceutical Sciences</i> 8(2): 336-341.	2015
20	Norazah M.N. , Ahmad, S.A. Shukor, M.Y., Syed, M.A., Latif, A.I. 2014. Isolation and Characterization of Phenol-Degrading Microorganism: Recent Advances. <i>Journal of Environmental Bioremediation and Toxicology</i> 2(1): 11-22.	2014
21	Norazah M.N. , Ahmad, S.A., Latif, A.I. 2017. Effect of Different Phenol Concentration by <i>Rhodococcus</i> spp. 29-30 November 2016. Shah Alam, Malaysia.	2016
22	Norazah M.N. , Ahmad, S.A. Shukor, M.Y., Syed, M.A., and Latif, A.I. 2012. Biological removal of phenol from simulated wastewater using free, resting and immobilized <i>Rhodococcus</i> cells. In Proceedings of the International Conference on Life	2015

	Sciences Revolution, 24-25 November 2015. Shah Alam, Malaysia.	
23	Norazah M.N. , Ahmad, S.A. Shukor, M.Y., Syed, M.A. and Latif, A.I. 2015. Disrupting <i>Rhodococcus</i> sp.: A competent method for genomics and proteomics. In Proceeding of International Conference on Science Technology. Engineering and Management, 26-27 March 2015. Chennai, India.	2015
24	Norazah M.N. , Shukor, M.Y., Syed, M.A. and Latif, A.I. Degradation od phenol by ortho-cleavage pathway by <i>Rhodococcus</i> sp. NAM 81. In Proceeding of Science Symposium, 18-19 June 2015. Bandar Sunway, Malaysia	2015
25	Norazah Mohammad Nawawi , Mohd Yunus Shukor, Aqlima Ahmad, Mohd Arif Syed and Abdul Latif Ibrahim. 2014. Review on Recent Characterization of Phenol Degading Bacteria. Unisel Journal of Science Engineering Technology.	2014
26	Jayesree Nagarajan, Norazah Mohammad Nawawi , and Abdul Latif Ibrahim. 2014. Characterization of Lipase Producing <i>Rhodococcus</i> sp. from Peninsular Malaysia. Journal of Life Sciences and Technologies (2) 1: 12-19.	2014
27	Shamala Salvamani, Norazah Mohammad Nawawi . 2014. Macroscopic And Microscopic Approaches For Identification Of Fungi From Plant Soil Of Cameron Highlands. Bioremediation Science & Technology Research (2)1: 14-18	2014
28	Shamala Salvamani, Norazah Mohammad Nawawi . 2014. Molecular Approach for Identification of Fungi From Soilsof Cameron Highlands. Journal Of Biochemistry, Microbiology And Biotechnology (1): 7-16	2014
29	Jayesree Nagarajan, Norazah Mohammad Nawawi & Abdul Latif Ibrahim. 2014. <i>Rhodococcus</i> UKMP-5M, an endogenous lipase producing actinomycete from Peninsular Malaysia. <i>Biologia</i> (69)2: 123—132.	2014
30	Parveen Devi Pattiram, Baskaran Gunasekaran, Noraza Mohammad Nawawi . 2014. Identification of Bacteria from Soil of Cameron Highlands. <i>Asian Journal of Plant Biology</i> , (2)2: 1- 9.	2014
Publication (Proceedings)		
31	Biological Removal of Phenol From Simulated Wastewater Using Resting Cells of <i>Rhodococcus</i> sp. NAM81. 3rd International Conference on Molecular Biology and Biotechnology 2019 (ICMBB2019) 24-25 th April 2019, UCSI Kuala Lumpur	2019
32	Preliminary Extraction Of Chlorophyl A And B From Microalgae Isolated From Selangor Sea Water. <i>Persidangan Kebangsaan Pengajian Asasi dan Umum (Persepadu 2019)</i>	2019
33	STEM Carnival: Survey of Public Awareness on STEM education, In Proceeding, 2019 Classroom Teaching Research for All Students Conference (CTRAS), 28-30 th June 2019, Normal Beijing University, China	2019

34	STEM Outreach Program: An evaluation on students' perspective towards STEM engagement via school-university mentoring partnership, In Proceeding, 2019 Classroom Teaching Research for All Students Conference (CTRAS), 28-30 th June 2019, Normal Beijing University, China	2019
35	A Preliminary Study On Surveillance Of Food Safety Knowledge, Attitude And Practices (KAP) Among Home-Based Food Operators At Shah Alam, Selangor, 4th National Pre-University Seminar (NPREUS) 2019, 23 October 2019	2019
36	Evaluation Of Cytochrome B Porcine Gene In Animal Feeds For Halal Products Authentication, Seminar Antarabangsa Produk dan Perkhidmatan Halalan Tahyyiban Kali ke4, 11-12 Nov 2019, Univ. Islam Sultan Sharif Ali, Brunei	2019
37	Norazah Mohammad Nawawi. Potential of Malaysian Isolated <i>Rhodococcus</i> for Biotechnology Application. In Proceeding, 3rd International Conference on Biosciences, 9 -11 Mei 2018, GC Universiti Lahore, Pakistan.	2018
38	Khairil Bariyyah Hassan, Norazah Mohammad Nawawi , Hasnur Hidayah Kamaruddin and Siti Aisyah Roslan. Selection of Foundation Best Student Award using Hybrid Fuzzy TOPSIS Method. In E-Proceeding 3 rd National Pre-University Seminar, Kolej Universiti Islam Antarabangsa Selangor, 8 November 2018.	2018
39	Maegala Nallapan Maniyam, Norazah Mohammad Nawawi , Norhisyam Mat Sout. STEM Outreach Program: An evaluation on students' perspective towards STEM engagement via school-university mentoring partnership. In E- Proceeding 1 st National STEM Seminar, Universiti Malaya, 31 July-1 August 2018.	2018
40	Norazah M.N. , Ahmad, S.A. Shukor, M.Y., Syed, M.A., And Latif, A.I. 2016. Biological Removal Of Phenol From Simulated Wastewater Using Free, Resting And Immobilized <i>Rhodococcus</i> Cells. In Proceedings Of The International Conference On Life Sciences Revolution, 24-25 November 2015. Shah Alam, Malaysia.	2016
41	Norazah M.N. , Ahmad, S.A. Shukor, M.Y., Syed, M.A. And Latif, A.I. 2015. Disrupting <i>Rhodococcus</i> Sp.: A Competent Method For Genomics And Proteomics. In Proceeding Of International Conference On Science Technology. Engineering And Management, 26-27 March 2015. Chennai, India. (Best Paper Award)	2015
42	Norazah M.N. , Shukor, M.Y., Syed, M.A. And Latif, A.I. Degradation Od Phenol By Ortho- Cleavage Pathway By <i>Rhodococcus</i> Sp. Nam 81. In Proceeding Of Science	2015

	Symposium, 18-19 June 2015. Bandar Sunway, Malaysia	
43	Norazah M.N. , Shukor, M.Y. And Latif, A.I. 2012. Preliminary Studies For Phenol Degrading <i>Rhodococcus</i> Strains From Peninsular Malaysia. In Proceedings Of Iab Women In Science International Symposium, 7 May 2012. Shah Alam, Malaysia.	2012
44	Norazah Mohammad Nawawi , Farah Diba, Zulkeflie Zamrod and Roohaida Othman. Isolation and Regeneration of Protoplasts from the Mycelium of <i>Glomerella cingulata</i> . In Proceeding of IAB-IAS International Symposium 2010: Knowledge Society for the Innovation Economy, 8-9 December 2010 Shah Alam Convention Centre (SACC), Selangor, Malaysia. PP 81-83.	2010
45	Suhaiza, A. J., Noor Azlin, M., Norazah, M. N. , and Abdul Latif, I. Identification of Marine Actinomycetes from Pulau Jemor by 16S rDNA Gene Analysis. In Proceeding of IAB-IAS International Symposium 2010: Knowledge Society for the Innovation Economy, 8-9 December 2010 Shah Alam Convention Centre (SACC), Selangor, Malaysia. PP 28-30.	2010
46	Nor Suhaila, Y., Ariff, A., Rosfarizan, M. and Abdul Latif, I., Ahmad, S.A., Norazah, M.N. , and Shukor, M.Y.A. Optimization of Parameters for Phenol Degradation by <i>Rhodococcus</i> in UKM- P in Shake Flask Culture. Lecture notes in Systems Biology and Bioengineering: Proceeding of the World Congress on Engineering 2010, 30 June-2 July 2010, London, U.K., PP 601-604.	2010
47	Norazah M.N. , Zaidi T., Suhaiza A. J., I. Noor Azlin, M., Amir R., Syukor M. Y. and Abdul Latif, I. Preliminary screening of antagonistic and antibacterial activities of <i>Rhodococcus</i> spp. isolated from peninsular Malaysia In Proceeding of National Biotechnology Seminar, August 2010, PWTC Kuala Lumpur, Malaysia	2010
48	Norazah M. N. , Noor Azlin M., Suhaiza A. J., Muhammad Hakimi A., Hasdianty A. and Abdul Latif I. Collection of Bacteria and Fungi Isolated from Peninsular Malaysia. In Proceeding of the 17th IAS Conference, 14-17 December 2009 at Concorde Hotel, Shah Alam, Selangor. PP. 109-111	2009
49	Suhaiza Ahmad Jamhor, Norazah Mohammad Nawawi , Nor Hatiah Md. Lias, Noor Azlin Mokhtar, Muhammad Hakimi Abdullah and Abdul Latif Ibrahim. Preliminary Antimicrobial Screening of Marine Bacteria Isolated from Pulau Jemor. In Proceeding of the 17th IAS Conference, 14-17 December 2009 at Concorde Hotel, Shah Alam, Selangor. PP. 138-140	2009
50	Suhaiza Ahmad Jamhor, Norhatiah Md. Lias, Norazah Mohammad Nawawi , Nor Azlin Mokhtar, Hasdianty Abdullah and Abdul Latif Ibrahim. Antibacterial Screening of Marine Bacteria Isolated from Pulau Jemor Using Cross-Streak Method. In Proceeding of the UNRI – UKM 5th Universitas Riau-Universiti Kebangsaan Malaysia Seminar, 19-21 August 2008 at FMIPA Universitas Riau, Pekanbaru, Indonesia. PP. 568-570	2008

51	Norazah Mohammad Nawawi & Nik Nor Jeehan Mokhtar. 2006. Development of Biotechnology in Malaysia: Federal and State Initiative. <i>In</i> Proceeding of Industrial Biotechnology Thematic Seminar, 6-17 November 2006, COMSTECH, Islamabad, Pakistan.	2006
52	Norazah Mohammad Nawawi , Farah Diba A.B & Zulkifli Z. 2002. Kajian aktiviti promoter gen kutinase <i>Glomerella cingulata</i> . Pascasidang Kolokium Siswazah FST, UKM.	2002
53	Norazah Mohammad Nawawi , Rahimah Abdul Rahim, Farah Diba A.B, Zulkiflie Zamrod & Roohaida Othman. 2002. Analysis of a Hygromycin Resistant Cassette and Its use on Gene Disruption and Promoter Activity Studies in Fungi. <i>In</i> Proceeding of the 32th Biochemistry Seminar, Kuala Lumpur 2002. (Award: 3rd Best Poster)	2002
54	Norazah Mohammad Nawawi , Farah Diba A.B, Zulkiflie Zamrod, Roohaida Othman & Nor Muhammad Mahadi. 2001. Promoter Activity Studies of the Cutinase 5' Regulatory Sequence Fused to a Reporter Gene. <i>In</i> Proceeding of the 13th National Biotechnology Seminar, Penang 13-15 November 2001.	2001
55	Norazah Mohammad Nawawi , Kasazlinda J, Farah Diba A.B, Zulkiflie Zamrod, Roohaida Othman & Nor Muhammad Mahadi. 2000. Construction of a Promoter-Reporter Plasmid to Study the Promoter Activity of <i>Glomerella cingulata</i> Cutinase Gene. <i>In</i> Proceeding of the 12th National Biotechnology Seminar, Lumut 12- 15 November 2000.	2000
56	Norazah Mohammad Nawawi , Ainon Hamzah & Wikneswary. 1999. Isolation of photosynthetic bacteria from oil polluted soil. <i>In</i> in the proceeding of the 22nd Microbiology Symposium and JSPS-NRCT/DOST/LIPI/VCC Seminar, 21-24 November, 1999 at Penang Parkroyal Resort, Penang. Jointly organised by University Putra Malaysia, Persatuan Microbiology Malaysia and JSPS. PP. 102-104 (Award: Best Poster)	1999

viii. Consultancy:

No.	Name of Organization	Date
1	Reviewer for Journals	2016-to date
2	External Examiner	2020
3	Jury for National Innovation and Invention Exhibition 2019, Sepintar Talent Enrichment Programme Carnival	2019
4	Perunding Program Mono Teater STEM Negeri Selangor	2019 to date
5	Involve in Selangor R&D and Innovation Expo, MITEC KL, 9-11 October 2019	
6	Involve in Forum Research Branding and Commercialization, Selangor R&D and Innovation EXPO, 11 Oktober 2019	

ix. Community Service:

No.	Description	Period
1	Advisor Community Service Activity Example: Feed the Homeless Jalinan Kasih with Orphanages Mesra with Senior Citizen Sentuhan Kasih Masyarakat Orang Asli	2016-to date
2	Committee Member Education about Quranic Botanical Garden	2012-to date
3	Fasilitator Mentor-Mentee STEM Program	2017-to date
4	Biro Wanita Persatuan Penduduk	2018 to date
5	AJK Surau Al Ikhlas	2020

x. Other Relevant Information:

Award**Achievement:**

Outstanding Women in Science (Microbiology)
Venus International Foundation, 2019

Competition Research Project:

Gold medal

-*STEM query module*. Malaysia Technology Expo, February 2020
 -*STEM Query Kit*. Malaysia Technology Expo, February 2020
 -*Pigment from Microalgae Isolated from Selangor*. Intellectual Research & Innovation Showcase 2019 (*IRIS2019*), 10 December 2019
 -Unisel STEM Squad 'Forensic Science' Module Malaysia Technology Expo 2019, 20-22 February 2019
 -*STEM query module*. Intellectual Research & Innovation Showcase 2019 (*IRIS2019*), 10 December 2019

Silver medal

-*Immobilized Lipase as Affective Tool for Biotransformation of Waste Cooking Oil (WCO) into Valuable Products*. Intellectual Research & Innovation Showcase 2019 (*IRIS2019*), 10 December 2019
 -*pH via Bluebellvine*. Intellectual Research & Innovation Showcase 2019 (*IRIS2019*), 10 December 2019
 -*STEM Microworld Fun Kit*. Intellectual Research & Innovation Showcase 2019 (*IRIS2019*), 10 December 2019
 -*Development of natural-based disinfectant for the control of pathogenic organism in freshwater fish*. Selangor Innovation Creativity Exposition (*SLICE2018*)

Bronze medal

-*MicroHerbs: Natural-based Disinfectant for the Control of Pathogenic Organism.*

Intellectual Research & Innovation Showcase 2019 (*IRIS2019*), 10 December 2019

-*Culture Collection of LactoBacillus.* Intellectual Research & Innovation Showcase 2019 (*IRIS2019*), 10 December 2019

-Chemistry module. Computational Thinking game competition. STEM Seminar, Universiti Malaya. 31 July 2018

-Forensic Science module. Computational Thinking game competition. STEM Seminar, Universiti Malaya. 31 July 2018

Most Innovative Project.

Unisel Fun with STEM. MTE 2018, 25 February 2018