

CURRICULUM VITAE



Prof. Dr. Yeo Chew Chieng **Professor**

Fakulti Perubatan, Kampus Perubatan, Universiti Sultan Zainal Abidin,
Terengganu Darul Iman.

Personal Information

Email :	yeocc@unisza.edu.my
Gender :	Male
D.O.B :	26 July 1968
Age :	52
Race :	Chinese
Religion :	Buddha
Current Scheme:	VK07
Started in UniSZA:	15 June 2009
Qualification :	Ph.D Mikrobiologi, <i>National University Of Singapore</i> , 1997. Sarjana Muda Mikrobiologi, <i>National University, San Diego, California</i> , 1992.
H-Index :	[Scopus: 19][Google Scholar: 25]

Area of Research

Microbial Genomics; Molecular Microbiology; Antimicrobial Resistance; Bacterial Toxin-Antitoxin Systems; Microbial Biotechnology

Work Experience

- Postdoctoral Fellow, National University of Singapore, Singapore (1998 - 2003)
- Assistant Professor, Malaysia University of Science and Technology, Petaling Jaya, Selangor (2003 - 2008) Associate Professor, Faculty of Agriculture and Biotechnology, Universiti Sultan

Zainal Abidin, Kuala Terengganu (2009 - 2013)

Administrative Responsibility

1. Ketua Pusat Penyelidikan (bioperubatan), Fakulti Perubatan, 01 Feb 2015 - 31 Jan 2017.

Teaching

1. ADS3443 - Cell and Molecular Biology, SEM I 2013/2014,
2. APE4783 - Molecular Diagnostic, SEM I 2011/2012,
3. APS4683 - Advanced Plant Biotechnology, SEM II 2010/2011,
4. ADS3113 - Fundamental Microbiology, SEM I 2010/2011,

Training

Conferences Attended

1. 19th International Congress on Infectious Diseases, Kuala Lumpur Convention Centre, MALAYSIA (20 Feb 2020 - 23 Feb 2020)

Publication

Journal Article

1. Disruption of The Cpse and Enda Genes Attenuates Streptococcus Pneumoniae Virulence: Towards The Development of a Live Attenuated Vaccine Candidate (2020), Vaccines, pp. 1-2, ISSN: 2076393X [*Indexed by: ISIQ2 - Co-author*]
2. Staphylococcus Aureus Infections in Malaysia: a Review of Antimicrobial Resistance and Characteristics of The Clinical Isolates, 1990-2017 (2019), Antibiotics-Basel, pp. 128-129, ISSN: 2079-6382 [*Indexed by: ISIQ2 - Co-author*]
3. Biocide Susceptibilities and Biofilm-Forming Capacities of Acinetobacter Baumannii Clinical Isolates from Malaysia (2019), Journal of Infection in Developing Countries, pp. 626-633, ISSN: 1972-2680 [*Indexed by: ISIQ4 - Main Author*]
4. Tigecycline and Inducible Clindamycin Resistance in Clinical Isolates of Methicillin-Resistant Staphylococcus Aureus from Terengganu, Malaysia (2019), Journal of Medical Microbiology,

- pp. 1299-1305, ISSN: 14735644 [*Indexed by: ISIQ4 - Co-author*]
5. The Good, The Bad, and The Ugly: Multiple Roles of Bacteria in Human Life (2018), *Frontiers in Microbiology*, pp. 1-2, ISSN: 1664-302X [*Indexed by: ISIQ1 - Main Author*]
 6. Nasal Colonisation, Antimicrobial Susceptibility and Genotypic Pattern of *Staphylococcus Aureus* Among Agricultural Biotechnology Students in Besut, Terengganu, East Coast of Malaysia (2018), *Tropical Medicine and International Health*, pp. 905-913, ISSN: 13602276 [*Indexed by: ISIQ2 - Co-author*]
 7. Gnat Toxins of Bacterial Toxin-Antitoxin Systems: Acetylation of Charged Trnas to Inhibit Translation (2018), *Molecular Microbiology*, pp. 331-335, ISSN: 0950382X [*Indexed by: ISIQ2 - Main Author*]
 8. Prevalence and Antimicrobial Susceptibilities of *Acinetobacter Baumannii* and Non-*Baumannii* *Acinetobacter*s from Terengganu, Malaysia and Their Carriage of Carbapenemase Genes (2018), *Journal of Medical Microbiology*, pp. 1-6, ISSN: 0022-2615 [*Indexed by: ISIQ3 - Main Author*]
 9. Small, Enigmatic Plasmids of The Nosocomial Pathogen, *Acinetobacter Baumannii*: Good, Bad, Who Knows? (2017), *Frontiers in Microbiology*, pp. 1-2, ISSN: 1664302X [*Indexed by: ISIQ1 - Main Author*]
 10. *Acinetobacter Baumannii* Pray Plasmids - an Age-Old, Stealthy Vehicle for The Transmission of Aminoglycoside Resistance, Overlooked (2017), *International Journal of Antimicrobial Agents*, pp. S90-S90, ISSN: 0924-8579 [*Indexed by: ISIQ1 - Main Author*]
 11. *Acinetobacter* Spp. Infections in Malaysia: a Review of Antimicrobial Resistance Trends, Mechanisms and Epidemiology (2017), *Frontiers in Microbiology*, pp. 1-2, ISSN: 1664302X [*Indexed by: ISIQ1 - Co-author*]
 12. The Importance of The Expendable: Toxin-Antitoxin Genes in Plasmids and Chromosomes (2017), *Frontiers in Microbiology*, pp. 1479-1480, ISSN: 1664302X [*Indexed by: ISIQ1 - Main Author*]
 13. Thymoquinone Regulates Gene Expression Levels in Morphine Addiction Pathways in Opioid Receptor Expressing Cells (u87 Mg) (2017), *Electronic Journal of Biology*, pp. 167-172, ISSN: 1860-3122 [*Indexed by: Other Index - Co-author*]
 14. Heterologous Expression of The *Streptococcus Pneumoniae* Yoeb and Pezt Toxin Genes is Lethal in *Chlorella Vulgaris* (2016), *Algal Research*, pp. 21-29, ISSN: 22119264 [*Indexed by: ISIQ1 - Main Author*]
 15. Comparative Genomics of Two St 195 Carbapenem-Resistant *Acinetobacter Baumannii* with Different Susceptibility to Polymyxin Revealed Underlying Resistance Mechanism (2016), *Frontiers in Microbiology*, pp. 1, ISSN: 1664302X [*Indexed by: ISIQ1 - Main Author*]
 16. The Complete Sequence and Comparative Analysis of a Multidrug-Resistance and Virulence Multireplicon Incfii Plasmid Pec302/04 from an Extraintestinal Pathogenic *Escherichia Coli* Ec302/04 Indicate Extensive Diversity of Incfii Plasmids (2016), *Frontiers in Microbiology*, pp. 1, ISSN: 1664302X [*Indexed by: ISIQ1 - Main Author*]
 17. Heterologous Expression of Toxins from Bacterial Toxin-Antitoxin Systems in Eukaryotic Cells: Strategies and Applications (2016), *Strategies and Applications. Toxins*, pp. 49, ISSN: 2072-6651 [*Indexed by: ISIQ1 - Main Author*]
 18. Neutralization of Bacterial Yoebspn Toxicity and Enhanced Plant Growth in *Arabidopsis Thaliana* Via Co-Expression of The Toxin-Antitoxin Genes (2016), *International Journal of Molecular Sciences*, pp. 321, ISSN: 16616596 [*Indexed by: ISIQ2 - Main Author*]
 19. Draft Genome Sequence of *Staphylococcus Aureus* Kt/312045, an St1-Mssa Pvl Positive Isolated from Pus Sample in East Coast Malaysia (2016), *Genomics Data*, pp. 111-112, ISSN: 22135960 [*Indexed by: Scopus - Co-author*]
 20. Keeping The Wolves at Bay: Antitoxins of Prokaryotic Type II Toxin-Antitoxin Systems

- (2016), *Frontiers in Molecular Biosciences*, pp. 1-9, ISSN: 2296-889X [*Indexed by: Other Index - Co-author*]
21. The Dnd Operon for Dna Phosphorothioation Modification System in *Escherichia Coli* is Located in Diverse Genomic Islands (2015), *Bmc Genomics*, pp. 199, ISSN: 14712164 [*Indexed by: ISIQ1 - Co-author*]
 22. Comparative Genomics of Two St 195 Carbapenem-Resistant *Acinetobacter Baumannii* with Different Susceptibility to Polymyxin Revealed Underlying Resistance Mechanism (2015), *Frontiers in Microbiology*, pp. 1440-1445, ISSN: 1664-302X [*Indexed by: ISIQ2 - Co-author*]
 23. Expression of The *Streptococcus Pneumoniae* Yoeb Chromosomal Toxin Gene Causes Cell Death in The Model Plant *Arabidopsis Thaliana* (2015), *Bmc Biotechnology*, pp. 26, ISSN: 1472-6750 [*Indexed by: ISIQ3 - Co-author*]
 24. Functional Validation of Putative Toxin-Antitoxin Genes from The Gram-Positive Pathogen *Streptococcus Pneumoniae*: Phd-Doc is The Fourth Bona-Fide Operon (2014), *Frontiers in Microbiology*, pp. 677, ISSN: 1664302X [*Indexed by: ISIQ1 - Co-author*]
 25. Incidence and Antibiogram of *Vibrio Parahaemolyticus* in Processed and Frozen Bivalve Mollusks in Kuala Terengganu, Malaysia (2014), *International Food Research Journal*, pp. 1349-1353, ISSN: 19854668 [*Indexed by: Scopus - Co-author*]
 26. A Study on The Presence of Pathogenic *Leptospira* Spp. in Environmental Water Samples Obtained from Selected Recreational Areas in Terengganu, Malaysia (2014), *Research J. Pharm. and Tech*, pp. 1153-1157, ISSN: 0974-3618 [*Indexed by: Scopus - Co-author*]
 27. Draft Genome Sequence of Methicillin-Resistant *Staphylococcus Aureus* Kt/y21, a Sequence Type 772 (st772) Strain Isolated from a Pediatric Blood Sample in Terengganu, Malaysia (2014), *Genome Announcements*, pp. 1-2, ISSN: 2169-8287 [*Indexed by: Other Index - Co-author*]
 28. Prevalence and Genetic Characterization of Carbapenem- and Polymyxin-Resistant *Acinetobacter Baumannii* Isolated from a Tertiary Hospital in Terengganu, Malaysia (2014), *Isrn Microbiology*, pp. 1-9, ISSN: 2356-7872 [*Indexed by: Other Index - Co-author*]
 29. Prevalence and Characterization of Verotoxigenic-*Escherichia Coli* Isolates from Pigs in Malaysia (2013), *Bmc Veterinary Research*, pp. 1-2, ISSN: 17466148 [*Indexed by: ISIQ1 - Co-author*]
 30. Outbreak-Associated *Vibrio Cholera* Genotypes with Identical Pulsotypes, Malaysia, 2009 (2012), *Emerging Infectious Diseases*, pp. 1177-1179, ISSN: 1080-6040 [*Indexed by: ISIQ1 - Co-author*]
 31. Comparison of Methicillin-Resistant and Methicillin-Sensitive *Staphylococcus Aureus* Strains Isolated from a Tertiary Hospital in Terengganu, Malaysia (2012), *Japanese Journal of Infectious Diseases*, pp. 502-509, ISSN: 13446304 [*Indexed by: Scopus - Co-author*]
 32. Genome Sequence of *Acinetobacter Baumannii* Ac12, a Polymyxin-Resistant Strain Isolated from Terengganu, Malaysia (2012), *Journal of Bacteriology*, pp. 5979-5980, ISSN: 00219193 [*Indexed by: Scopus - Co-author*]
 33. Genome Sequence of Multidrug-Resistant *Escherichia Coli* Ec302/04, Isolated from a Human Tracheal Aspirate (2012), *Journal of Bacteriology*, pp. 6691-6692, ISSN: 00219193 [*Indexed by: Scopus - Co-author*]
 34. Prevalence and Characterization of Multidrug-Resistant and Extended-Spectrum Beta-Lactamase-Producing *Escherichia Coli* from Pediatric Wards of a Malaysian Hospital (2012), *Microbial Drug Resistance*, pp. 408-416, ISSN: 10766294 [*Indexed by: Scopus - Co-author*]
 35. Proteomic Analysis of The Molecular Response of Raji Cells to Maslinic Acid Treatment (2012), *Phytomedicine*, pp. 183-191, ISSN: ISSN: 09447113 [*Indexed by: Scopus - Co-author*]
 36. Toxin-Antitoxin Genes of The Gram-Positive Pathogen *Streptococcus Pneumoniae*: So Few

- and Yet So Many (2012), *Microbiology and Molecular Biology Reviews*, pp. 773-791, ISSN: 10922172 [*Indexed by: Scopus - Co-author*]
37. Antibacterial Profile of *Jatropha Curcas* Latex Extracts Against Selected Human Pathogenic Bacteria (2011), *African Journal of Microbiology Research*, pp. 5147-5154, ISSN: 19960808 [*Indexed by: Scopus - Co-author*]
 38. Cancer Chemopreventive Activity of Maslinic Acid: Suppression of Cox-2 Expression and Inhibition of Nf-Kb and Ap-1 Activation in Raji Cells (2011), *Planta Medica*, pp. 152-157, ISSN: 320943 [*Indexed by: Scopus - Co-author*]
 39. Genetic Regulation of The Yefm-Yoeb Toxin-Antitoxin Locus of *Streptococcus Pneumoniae* (2011), *Journal of Bacteriology*, pp. 4612-4625, ISSN: 219193 [*Indexed by: Scopus - Co-author*]

Chapter in Book

1. Small, Enigmatic Plasmids of The Nosocomial Pathogen, *Acinetobacter Baumannii*: Good, Bad, Who Knows?, *The Good, The Bad and The Ugly: Multiple Roles of Bacteria in Human Life* (2018), *Frontiers Media SA*, pp. 214-222, ISBN: 978-2-88945-574-4 - **Main Author**
2. The Importance of The Expendable: Toxin-antitoxin Genes in Plasmids and Chromosomes, *The Good, The Bad and The Ugly: Multiple Roles of Bacteria in Human Life* (2018), *Frontiers Media SA*, pp. 1-507, ISBN: 978-2-88945-574-4 - **Main Author**

Conference Proceedings

1. The Persistence of a St239-Mrsa-iii Lineage Over Two Decades in Malaysia (2019), *The International Congress of The Malaysian Society for Microbiology 2019 (icmsm 2019)*, *Royale Chulan, Seremban Malaysia* - **Co-author**
2. Prevalence and Antibiotic Resistance Profiles of *Acinetobacter Baumannii* and Non-*Baumannii* *Acinetobacter*s from a Tertiary Hospital in Terengganu, Malaysia (2017), *Annual Scientific Meeting in Emerging Infectious Threat, The Royal Chulan Damansara* - **Co-author**
3. *Acinetobacter Baumannii* Pray Plasmids – an Age-Old, Stealthy Vehicle for The Transmission of Aminoglycoside Resistance, Overlooked (2017), *11th International Symposium on Antimicrobial Agents and Resistance and The 3rd International Interscience Conference on Infection and Chemotherapy (isaar & Iaic 2017)*, *Bexco, Busan* - **Main Author**
4. Characterization of Virulence Genes and Antibiotic Resistance of Methicillin-Resistant *Staphylococcus Aureus* (mrsa) Isolates in Terengganu (2016), *33rd Symposium of The Malaysian Society for Microbiology 2016 (msm 2016)*, *Ramada Plaza Melaka, Malaysia* - **Co-author**
5. The Phd-Doc Locus of The Gram-Positive Pathogen *Streptococcus Pneumoniae* Encodes a Functional Toxin-Antitoxin System (2014), *21st Malaysian Society for Molecular Biology & Biotechnology (msmbb) Annual Scientific Meeting, Monash University Malaysia* - **Co-author**
6. Assessment of an Inducible Gene Expression System for The Expression of The Bacterial Yoeb Toxin in The Microalgae *Chlorella Vulgaris* (2014), *21st Malaysian Society for Molecular Biology & Biotechnology (msmbb) Annual Scientific Meeting, Monash University Malaysia* - **Main Author**
7. Association Between Dnd Gene Cluster and The Dna Degradation Phenotype of Untypeable *Escherichia Coli* Strains (2014), *21st Malaysian Society for Molecular Biology & Biotechnology (msmbb) Annual Scientific Meeting, Monash University Malaysia* - **Co-author**
8. Resistance Island: What is New in an Extensive-Drug Resistant Clinical Strain of

Acinetobacter Baumannii? (2014), 21st Malaysian Society for Molecular Biology & Biotechnology (msmbb) Annual Scientific Meeting, Monash University Malaysia - **Co-author**

Research Grant

Principal Investigator

1. Genome Characterization and Evolution of Multidrug-Resistant Staphylococcus Aureus Clinical Isolates from Terengganu, Malaysia., Skim Geran Penyelidikan Fundamental - Frgs, Government (2019), **Grant Value: RM189,400**
2. High Resolution Sequencing and Characterization of Ndm-1 and Oxa-58 Carbapenemase-Encoding Plasmids from Multidrug-Resistant Acinetobacter Baumannii Isolates from Terengganu, Malaysia, Geran Dalam Universiti, University (2018), **Grant Value: RM23,500**
3. Whole Genome Sequencing of Multidrug Resistant Acinetobacter Baumannii from Terengganu, Malaysia, Reveals Their Population Structure, Genome Dynamics and Mechanisms of Evolutionary Adaptation to Healthcare Settings, Skim Geran Penyelidikan Fundamental - Frgs, Government (2016), **Grant Value: RM107,000**
4. Heterologous Expression of The YoeB and PezT Bacterial Toxins in Arabidopsis Thaliana: Towards The Development of an Inducible Cell Ablation System in Plants, Program Rakan Penyelidikan Universiti Malaya (pprum), Government (2014), **Grant Value: RM24,000**

Co-Researcher

1. Molecular Characterization and Comparative Genomic of Multidrug-Resistant Staphylococcus Aureus from Farmed Goats in Terengganu, Skim Geran Penyelidikan Fundamental - Frgs, Government (2020), Grant Value: **RM121,200**
2. Genomic Epidemiology and Dynamics of The Acinetobacter Baumannii Resistomes and Virulomes in Hospital Isolates from Terengganu, Skim Geran Penyelidikan Fundamental - Frgs, Government (2018), Grant Value: **RM199,500**
3. Immunogenicity of Tyrosine-Protein Kinase and Surface-Exposed Dna-Entry Nuclease Mutant Strains of Streptococcus Pneumoniae D39: Towards The Development of a Live Attenuated Pneumococcal Vaccine, Geran Dalam Universiti, University (2018), Grant Value: **RM22,000**
4. Microbiome Characterization, Prevalence and Antimicrobial Susceptibility of Potential Microbial Pathogens Carried in The Upper Respiratory Tract of The Orang Asli Community in Peninsular Malaysia, Geran Antarabangsa, External - International (2017), Grant Value: **RM336,457**
5. Non-Baumannii Acinetobacter Spp. as Emerging Pathogens and a Threat to Healthcare Settings: Their Prevalence, Antimicrobial Resistance and Genomic Characteristics of Malaysian Clinical Isolates, Skim Geran Penyelidikan Fundamental - Frgs, Government (2017), Grant Value: **RM200,500**
6. Role of β -Enolase Induced, and Endonuclease Derived Degradation of Netosis, in Immunogenicity of S.pneumoniae; Towards Development of Novel, Least Toxic, Immunogenic, Environmental Safe and Cost Effective Streptococcus Pneumoniae Vaccine Candidates, Skim Geran Penyelidikan Fundamental - Frgs, Government (2017), Grant Value:

RM175,800

7. Characterization of Surface Proteins with Intramolecular Thioester Bonds in Multidrug-Resistant Enterococci as Potential Therapeutic Targets, Geran Dalaman Universiti, University (2017), Grant Value: **RM20,000**
8. Molecular Characterization of The Virulence Genes and Antibiotic Resistance of The Community- and Hospital-Acquired Methicillin-Resistant Staphylococcus Aureus Isolates in Terengganu, Malaysia., Dana Pembudayaan Penyelidikan - Rags, Government (2015), Grant Value: **RM50,000**
9. Isolation and Characterization of Multing-Resistant Clinical Isolates of Acinetobacter Spp. from Terengganu, Malaysia, Geran Agensi Luar, Government (2015), Grant Value: **RM30,000**
10. Effects of Proline and Glycinebetaine to Mitigate The Negative Effects of Water Stress on Rice Plants for Sustainable Rice Production, Skim Geran Penyelidikan Fundamental - Frgs, Government (2014), Grant Value: **RM103,000**
11. Development of a Rapid Molecular Detection Method Using Real-Time Pcr for Candidates Liberibacter, Skim Geran Penyelidikan Fundamental - Frgs, Government (2010), Grant Value: **RM41,002**

Postgraduate Student

Main Supervision

1. [PhD] Ahmed Ghazi Faisal, Iraq, - **Ongoing**
2. [PhD] Asdren Zajmi, Albania, - **Ongoing**
3. [PhD] Al Trad Esraa Ibrahim Abdullah, Jordan, - **Ongoing**
4. [PhD] Farahiyah Binti Mohd Rani, Malaysia, - **Ongoing**
5. [PhD] Nurul Saidah Binti Din, Malaysia, - **Ongoing**
6. [MASTER] Muhammad Harith B. Nor Ashimi, Malaysia, - **Ongoing**

Co Supervision

1. [PhD] Ainal Mardziah Binti Che Hamzah, Malaysia, - **Ongoing**
2. [PhD] Amonov Malik, Uzbekistan, - **Completed**
3. [MASTER] Ainal Mardziah Binti Che Hamzah, Malaysia, - **Completed**

Intellectual Property

1. Sunisza3 (sp*enda) (ly2020005144) (2020), Copyright - **Co-owner**
2. Sunisza1 (sp*enol) (ly2020005143) (2020), Copyright - **Co-owner**

Professional Membership

1. Committee, Ajk Penilaian Dana Penyelidikan Kementerian Pengajian Tinggi (dp Kpt), 2020-2020
2. Editor, Editorial Board Member in *Frontiers Medicine & Public Health Journal*, 2018-2019
3. Member, Member of American Society for Microbiology, 2017-2019
4. Member, Member of Microbiology Society Uk, 2018-2019
5. Committee, Ahli Jawatankuasa Panel Penilai Dana Penyelidikan Kementerian Pendidikan Malaysia (kpm), 2019-2019
6. Reviewer, Reviewer for *The Journal Current Computer-Aided Drug Design*, 2018-2018
7. Reviewer, Reviewer for *Environmental Microbiology (a Family of Antitoxins Associated with Pare Toxins Encoded by Plasmids Regulate Plasmid Replication)*, 2018-2018
8. Reviewer, Reviewer for *Journal of Global Antimicrobial Resistance (antibiotic Resistance Profiling of Escherichia Coli Isolates from Myanmar)*, 2018-2018
9. Member, Steering Group Member for *The Global Network for Antimicrobial Resistance and Infection Prevention (global-Namrip)*, 2017-2017
10. Editor, Guest Editor for a Research Topic in *The Journal Frontiers in Microbiology*, 2016-2016
11. Editor, Member of Editorial Board of *Asia Pacific Journal of Molecular Biology and Biotechnology (apjmbb)*, 2010-2016
12. Member, Member of Microbiology Society, Uk, 2003-2016
13. Recognition/fellowship/stewardship, Member of Editorial Board of *International Scholarly Research Notices: Microbiology (hindawi Press)*, 2016-2016
14. Member, Member of American Society of Microbiology (asm), 2012-2014

Academic Ecosystem

1. Reviewer, Reviewer - *Frontiers in Microbiology, Section Evolutionary and Genomic Microbiology*, 2020-2020
2. Speaker/trainer, Invited Speaker - Live Webinar 2020, Centre for Research on Communicable Diseases (crcd), 2020-2020
3. Reviewer, Reviewer - *Journal of Antimicrobial Resistance*, 2020-2020
4. Reviewer, Reviewer - *Journal Microbial Genomics*, 2020-2020
5. Reviewer, Reviewer - *Microbial Biotechnology*, 2019-2019
6. Examiner, External Examiner for Ph.D Thesis, Srm Institute of Science and Technology, India, 2019-2019
7. Reviewer, Reviewer - *Clinical Microbiology and Infection*, 2019-2019
8. Reviewer, Reviewer - *Canadian Journal of Microbiology*, 2019-2019
9. Examiner, External Examiner for Ph.D Thesis (ng Hien Fuh) / Universiti Tunku Abdul Rahman (utar), 2019-2019
10. Judge/jury/evaluator, Penilai - Student Research Day @ Umt 2019, 2019-2019
11. Visiting Professor, Visiting Professor in University of Sydney, 2018-2018
12. Member, Member - Majlis Profesor Negara, 2016-2018
13. Reviewer, Reviewer for *Malaysian Applied Biology Journal*, 2018-2018
14. Reviewer, Reviewer of *Journal Microbial Drug Resistance*, 2018-2018

15. Reviewer, Reviewer for The Journal of Antimicrobial Chemotherapy, 2018-2018
16. Committee, Appointment as a Session Chair/co Chair/time Keeper in The Uicid, 2018-2018
17. Reviewer, Grant Reviewer for The Medical Research Council (mrc), United Kingdom., 2017-2018
18. Examiner, External Examiner for Ph.D Thesis from Monash University, 2018-2018
19. Committee, Ahli Jawatankuasa Pelaksana International Conference on Infectious Diseases (uicid) 2018, 2018-2018
20. Reviewer, Manuscript Reviewer of Frontiers Molecular Biosciences, 2018-2018
21. Editor, Review Editor in Molecular Recognition, Frontiers in Molecular Biosciences, 2017-2017
22. Speaker/trainer, Penceramah Jemputan Bengkel Research Writing Bagi Pakar Perubatan Keluarga Negeri Terengganu 2017, 2017-2017
23. Reviewer, Reviewer for a Manuscript Submitted to The Journal Frontiers in Microbiology, 2017-2017
24. Examiner, External Examiner for a Ph.D Thesis from Universiti Malaysia Terengganu, 2017-2017
25. Reviewer, Reviewer for The Journal Molecular Microbiology, 2017-2017
26. Examiner, External Examiner for M.Sc Thesis from Institut Akuakultur Tropika, Universiti Malaysia Terengganu, 2017-2017
27. Reviewer, Reviewer for Manuscript Submitted to The Journal Nature Communications, 2017-2017
28. Reviewer, Reviewer for Manuscript Submitted to The Journal Rna Biology, 2017-2017
29. Keynote Speaker, Keynote Speaker in The International Conference for Molecular Biology and Biotechnology, 2016-2016
30. Editor, Managing Editor, Journal of Agrobiotechnology, 2016-2016
31. Expert/pakar Rujuk, External Reviewer for French National Research Agency (anr) Grant Proposal, 2016-2016
32. Reviewer, Reviewer of Manuscript for Publication in Bmc Infectious Diseases Journal, 2016-2016
33. Reviewer, Reviewer of Paper for Plos One Journal, 2016-2016
34. Reviewer, Reviewer of Paper for Journal of Medical Microbiology, 2016-2016
35. Examiner, External Examiner for Ph.D Thesis from Srm University, Tamil Nadu, India, 2016-2016
36. Examiner, Pemeriksa Luar Thesis Sarjana Sains (perikanan), Umt, 2016-2016
37. Examiner, Pemeriksa Luar Thesis Sarjana Sains (perikanan), Umt, 2016-2016
38. Examiner, External Examiner for Ph.D Thesis from Srm University, Tamil Nadu, India, 2016-2016
39. Examiner, Pemeriksa Luarthesis Master Sains, Upm, 2015-2015
40. Examiner, Pemeriksa Luarthesis Master Sains, Upm (september 2015), 2015-2015
41. Examiner, Pemeriksa Luar Thesis Masters of Science, Monash University, 2015-2015
42. Plenary Speaker, Malaysian Society for Microbiology, 2014-2014
43. Examiner, Jawatankuasa Pemeriksa Tesis di Universiti Malaysia Terengganu, 2014-2014
44. Examiner, Ajk Peperiksaan Viva Universiti Malaysia Terengganu, 2014-2014