CURRICULUM VITAE



DR. LING KING HWA (MICHAEL)

HEAD Department of Biomedical Sciences Faculty of Medicine and Health Sciences Universiti Putra Malaysia 43400 UPM Serdang, Selangor DE, MALAYSIA.

PROFESSOR OF NEUROSCIENCE & GENETICS

Medical Genetics Unit Department of Biomedical Science Faculty of Medicine and Health Sciences Universiti Putra Malaysia 43400 UPM Serdang, Selangor DE, MALAYSIA.

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(A) PERSONAL INFORMATION

Legal Name	: <u>LING</u> King Hwa
Other Name	: Michael LING
Gender	: Male
Nationality	: Malaysian
Written Language	: Malay & English
Spoken Language	: Malay, English, I

: Malay, English, Mandarin, Cantonese and Foochow

(B) ACADEMIC TRAINING / EDUCATION

Training	Name of School / Institution	Year	Area of Specialization
Research Fellow in Neurogenetics	Harvard Medical School, Harvard University, Boston, MA (With Professor Bruce Yankner)	2016-2020	Alzheimer's Disease & Neuropsychiatry disorders
Ph.D. (With Dean's Special Commendation for Outstanding Thesis Award)	University of Adelaide, SA, Australia (With Professor Hamish S. Scott, Assoc. Prof. Paul Thomas, Dr. Tim Thomas and Dr. Chelsee A. Hewitt)	2006-2011	Developmental Neurogenetics
M.Sc. (With Distinction)	Universiti Putra Malaysia, Malaysia (With Prof. Rozita Rosli, Prof. Wan Kiew Lian and Assoc. Prof. Mariana Nor Shamsudin)	2002-2005	Genetics
S*Cert. (With Distinction)	S* Life Science Informatics Alliance Hosted by the National University of Singapore, Singapore.	2003	Bioinformatics
B.Sc. (Hons)	Universiti Putra Malaysia, Malaysia (With Prof. Rozita Rosli, Prof. Gnosothie Duraisamy, Assoc. Prof. Chong Pei Pei and Dr Mohd Nasir Mohd Taib)	1999-2002	Biomedical Sciences

COMPLETED THESES:

 Ph.D. Identification of transcripts involved in differentiation, proliferation and developmental networks of the mouse cerebral cortex. (With Special Commendation by Dean of Graduate Studies, University of Adelaide, Australia, for Outstanding Thesis Award) (Awarded the PhD Thesis Research Excellence Award by the Centre for Cancer Biology, SA Pathology, SA, Australia)
 M.Sc. High-throughput sequencing and analysis of chromosome 1 of Eimeria tenella. (With Distinction)
 B.Sc. (Hons) The prevalence of MTHFR677C>T missense mutation, total plasma homocysteine levels and associated risk factors.

Employer	Designation	Department	Start Date	Date Ended
Universiti Putra	Head	Department of Biomedical Sciences Faculty of Medicine and Health Sciences, UPM.	01.03.2024	Present
	Professor	Medical Genetics Unit, Department of Biomedical Sciences, Faculty of Medicine and Health Sciences.	01.02.2024	Present
Malaysia	Associate Professor	Medical Genetics Unit, Department of Biomedical Sciences, Faculty of Medicine and Health Sciences.	01.11.2019	31.01.2024
	Deputy Director	Malaysian Research Institute on Ageing	01.06.2023	14.02.2024
Harvard University	Research Fellow in Neurogenetics	Department of Genetics Harvard Medical School Boston, MA 02115, USA.	04.12.2016	31.12.2020
Universiti	Senior Lecturer	Medical Genetics Unit, Department of Biomedical Sciences, Faculty of Medicine and Health Sciences.	01.10.2015	31.10.2019
Putra		Clinical Genetics Unit, Department of	15.07.2011	30.09.2015
Malaysia	Tutor	Obstetrics & Gynaecology, Faculty of Medicine and Health Sciences	22.11.2004	14.07.2011
S* Life Science Informatics Alliance	Teaching Assistant	S* Life Science Informatics Alliance, S* Online Bioinformatics Course, Hosted by the National University of Singapore, Singapore.	2005	2005
Universiti Putra Malaysia	Research Assistant	Clinical Genetics Unit, Department of Human Growth & Development, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia.	2002	2004
SMK St. Thomas	Temporary Teacher	St Thomas National Secondary School, Kuantan, Pahang DM.	1998	1999

(C) CURRENT AND PAST EMPLOYMENTS

(D) HONOURS & AWARDS

Name of awards (Descriptions)	Awarding authority	Type / Significance	Year
IBRO Travel Grant (Travel grant amouinting to EUR1645 to attend 11 th IBRO World Congress of Neuroscience taking place in Granada, Spain between September 9-13, 2023)	International Brain Research Organisation	Research / International	2023
MSN Best Publication Award for 2022 (Non-Clinical Category – HC Lee, H Hamzah, MPY Leong, HM Yusof, O Habib, S Zainal Abidin, EA Seth, SM Lim, S Vidyadaran, MAM Moklas, MA Abdullah, N Nordin, Z Hassan, PS Cheah, <u>KH Ling</u> . 2021. Transient prenatal ruxolitinib treatment suppresses astrogenesis during development and improves learning and memory in adult mice, Scientific Reports)	Malaysian Society of Neurosciences	Research / National	2022
MSN Best Publication Award for 2021 (Non-Clinical Category – Cheah P.S., Prabhakar S., Yellen D., Beauchamp R. L., Zhang X., Kasamatsu S., Bronson R. T., Thiele E. A., Kwiatkowski D. J., Stemmer-Rachamimov A., Gyorgy B., <u>Ling KH.</u> , Kaneki M., Tannous B. A., Ramesh, V., Maguire C.A., Breakefield X. O. Gene therapy for tuberous sclerosis complex type 2 in a mouse model by delivery of AAV9 encoding a condensed form of tuberin. Science Advances)	Malaysian Society of Neurosciences	Research / National	2022
MSN Best Publication Award for 2019 (Non-Clinical Category – Z Hassan, FW Suhaimi, S Ramanathan, <u>KH</u> <u>Ling</u> , MA Effendy, CP Muller, HC Dringenberg. 2019. Mitragynine (Kratom) impairs spatial learning and hippocampal synaptic transmission in rats, Journal of Psychopharmacology)	Malaysian Society of Neurosciences	Research / National	2022
Excellence Service Award (For excellence service provided in the year 2021 at the Faculty of Medicine and Health Sciences, Universiti Putra Malaysia)	Universiti Putra Malaysia	Profession / University	2022
IBRO Return Home Fellowship (IBRO Return Home Fellowship with EUR20,000 for career advancement in home institution, Universiti Putra Malaysia, Malaysia)	International Brain Research Organisation	Research / International	2021

CAEN ISN Return Home Grant	International	Research /	
(Grant with USD10,000 for career advancement in home institution,	Society for	International	2021
Universiti Putra Malaysia, Malaysia)	Neurochemistry	International	
IBRO-ISN Research Fellowship	International	Research /	
(IBRO-ISN Research Fellowship with EUR35,000 for 1 year research	Brain Research	International	2016
attachment at Harvard Medical School, Harvard University, Boston, MA)	Organisation		
Postdoctoral Training Scheme	Ministry of	Research /	
(2-year supplements for Postdoctoral training at Harvard Medical School,	Higher	National	2016
Harvard University, Boston, MA)	Education	. taller tal	
IBRO/APRC Exchange Fellowship	International	Research /	
(IBRO funding to attend the 3 rd Mongolian Neuroscience Meeting at	Brain Research	International	2016
Ulaan Bator from 23-25 September 2016 as IBRO/APRC Lecturer)	Organisation	International	
	Faculty of		
Best 10 Researchers Award	Medicine and	Research /	2014
(For excellence research publications for the year 2013)	Health	Faculty	2014
	Sciences, UPM		
Excellence Service Certification	Universiti Putra	Profession /	
(For excellence service provided in the year 2013 at the Faculty of	Malavsia	University	2014
Medicine and Health Sciences, Universiti Putra Malaysia)	manayona	••••••	
Excellence Service Certification	Universiti Putra	Profession /	2012
(For excellence service provided in the year 2012 at the Faculty of Medicine and Health Sciences, Universiti Putre Melavoia)	Malaysia	University	2013
Medicine and Health Sciences, Oniversiti Putra Malaysia)	Contro for	-	
CCB PhD Thesis Research Excellence Award	Centre IOI	Academic /	2012
(For outstanding PhD thesis)	Cancer Biology,	International	2012
Past Paster Presentation Award	Australia		
Ling KH Browtigen DI Magra S. Ergear S. Check PS. Baison IM			
(Liliy KH, Biduliyali FJ, Woole S, Flasel S, Cileali FS, Raisoli JW, Stankovic M Lee VK, Daish T, Mattiske DM, Mann, IR, Adelson DI	lissue		
Thomas PO, Hahn CN and Scott HS, Characterisation of molecular roles	Engineering	Research /	2012
of novel long non-coding RNAs at Sox4 gene locus during mouse brain	Society of	National	2012
development.4 th Malaysian Tissue Engineering & Regenerative Medicine	Malaysia		
Meeting (MTERMS) 2012 at Langkawi, Malaysia)			
IBRO-SfN Travel Grant	International	Bossorah /	
(One of the 29 recipients in Asia selected for the grant to attend SfN	Brain Research	Research /	2012
AGM 2012 in New Orleans, USA)	Organisation	International	
Dean of Graduate Studies Special Commondation on			
Deal of Graduate Studies Special Commendation on	Linivarcity of	Acadomic /	
Outstanding PhD Thesis Award	University of	Academic /	2011
Outstanding PhD Thesis Award (For outstanding PhD thesis)	University of Adelaide	Academic / University	2011
Outstanding PhD Thesis Award (For outstanding PhD thesis) Academy of Science Malaysia Lindau Programme 2011	University of Adelaide	Academic / University	2011
Outstanding PhD Thesis Award (For outstanding PhD thesis) Academy of Science Malaysia Lindau Programme 2011 Young Scientist Travel Fellowships	University of Adelaide Academy of Sciences	Academic / University Research /	2011
Outstanding PhD Thesis Award (For outstanding PhD thesis) Academy of Science Malaysia Lindau Programme 2011 Young Scientist Travel Fellowships (Full travel scholarships to attend 61 st Meeting of Nobel Laureates in	University of Adelaide Academy of Sciences, Malaysia.	Academic / University Research / National	2011 2011
Outstanding PhD Thesis Award (For outstanding PhD thesis) Academy of Science Malaysia Lindau Programme 2011 Young Scientist Travel Fellowships (Full travel scholarships to attend 61 st Meeting of Nobel Laureates in Lindau, Germany, from June 26 to July 1, 2011)	University of Adelaide Academy of Sciences, Malaysia.	Academic / University Research / National	2011 2011
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Outstanding PhD Thesis Award (For outstanding PhD thesis) Academy of Science Malaysia Lindau Programme 2011 Young Scientist Travel Fellowships (Full travel scholarships to attend 61 st Meeting of Nobel Laureates in Lindau, Germany, from June 26 to July 1, 2011) Lindau Foundation Young Scientist Fellowships (For 61 st Meeting of Nobel Laureates at Lindau, Germany, 26 th June – 1 st July 2011) FHS Postgraduate Traveling Fellowship Award, University of Adelaide – AUD1500.00 (KH Ling, CN Hahn, L Mann, D Adelson, PO Thomas and HS Scott	University of Adelaide Academy of Sciences, Malaysia. Lindau Foundation Faculty of Health	Academic / University Research / National Research / International	2011 2011 2011
Outstanding PhD Thesis Award (For outstanding PhD thesis) Academy of Science Malaysia Lindau Programme 2011 Young Scientist Travel Fellowships (Full travel scholarships to attend 61 st Meeting of Nobel Laureates in Lindau, Germany, from June 26 to July 1, 2011) Lindau Foundation Young Scientist Fellowships (For 61 st Meeting of Nobel Laureates at Lindau, Germany, 26 th June – 1 st July 2011) FHS Postgraduate Traveling Fellowship Award, University of Adelaide – AUD1500.00 (KH Ling, CN Hahn, J Mann, D Adelson, PQ Thomas and HS Scott. M1181: A povel miRNA involved in development of the mouse embryo.	University of Adelaide Academy of Sciences, Malaysia. Lindau Foundation Faculty of Health Sciences,	Academic / University Research / National Research / International Research / University	2011 2011 2011 2011 2009
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Dealt of Graduate Studies Special Commendation on Outstanding PhD Thesis Award (For outstanding PhD thesis) Academy of Science Malaysia Lindau Programme 2011 Young Scientist Travel Fellowships (Full travel scholarships to attend 61 st Meeting of Nobel Laureates in Lindau, Germany, from June 26 to July 1, 2011) Lindau Foundation Young Scientist Fellowships (For 61 st Meeting of Nobel Laureates at Lindau, Germany, 26 th June – 1 st July 2011) FHS Postgraduate Traveling Fellowship Award, University of Adelaide – AUD1500.00 (KH Ling, CN Hahn, J Mann, D Adelson, PQ Thomas and HS Scott. M1181: A novel miRNA involved in development of the mouse embryo. Keystone Symposia Conference: RNA Silencing: Mechanism, Biology and Application at Colorado, United States of America) Discipline of Medicine Traveling Fund, University of Adelaide – AUD500.00 (KH Ling, CN Hahn, J Mann, D Adelson, PQ Thomas and HS Scott. M1181: A novel miRNA involved in development of the mouse embryo. Keystone Symposia Conference: RNA Silencing: Mechanism, Biology and Application at Colorado, United States of America) Discipline of Medicine Traveling Fund, University of Adelaide – AUD500.00 (KH Ling, CN Hahn, J Mann, D Adelson, PQ Thomas and HS Scott. M1181: A novel miRNA involved in development of the mouse embryo. Keystone Symposia Conference: RNA Silencing: Mechanism, Biology and Application at Colorado, United States of America) Australian Fees Scholarship International (For pursuing PhD degree at the University of Adelaide, Adelaide, Australia)	University of Adelaide Academy of Sciences, Malaysia. Lindau Foundation Faculty of Health Sciences, University of Adelaide School of Medicine, University of Adelaide	Academic / University Research / National Research / International Research / University Research / School Academic / International	2011 2011 2011 2009 2009 2008- 2010
Dealt of Graduate Studies Special Commendation on Outstanding PhD Thesis Award (For outstanding PhD thesis) Academy of Science Malaysia Lindau Programme 2011 Young Scientist Travel Fellowships (Full travel scholarships to attend 61 st Meeting of Nobel Laureates in Lindau, Germany, from June 26 to July 1, 2011) Lindau Foundation Young Scientist Fellowships (For 61 st Meeting of Nobel Laureates at Lindau, Germany, 26 th June – 1 st July 2011) FHS Postgraduate Traveling Fellowship Award, University of Adelaide – AUD1500.00 (KH Ling, CN Hahn, J Mann, D Adelson, PQ Thomas and HS Scott. M1181: A novel miRNA involved in development of the mouse embryo. Keystone Symposia Conference: RNA Silencing: Mechanism, Biology and Application at Colorado, United States of America) Discipline of Medicine Traveling Fund, University of Adelaide – AUD500.00 (KH Ling, CN Hahn, J Mann, D Adelson, PQ Thomas and HS Scott. M1181: A novel miRNA involved in development of the mouse embryo. Keystone Symposia Conference: RNA Silencing: Mechanism, Biology and Application at Colorado, United States of America) Discipline of Medicine Traveling Fund, University of Adelaide – AUD500.00 (KH Ling, CN Hahn, J Mann, D Adelson, PQ Thomas and HS Scott. M1181: A novel miRNA involved in development of the mouse embryo. Keystone Symposia Conference: RNA Silencing: Mechanism, Biology and Application at Colorado, United States of America) Australian Fees Scholarship International (For pursuing PhD degree at the University of Adelaide, Adelaide, Australia) Excellence Service Award	University of Adelaide Academy of Sciences, Malaysia. Lindau Foundation Faculty of Health Sciences, University of Adelaide School of Medicine, University of Adelaide	Academic / University Research / National Research / International Research / University Research / School Academic / International	2011 2011 2011 2009 2009 2008- 2010
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(E) RESEARCH ACTIVITIES

RESEARCH PROJECT FUNDING

Role / Quantum of funding	Title	Awarding authority (Duration)	Status / Outcome
FRGS FRGS/1/2023/STG01/UMT/02/2 (Co-investigator) RM184,970	Unravelling the metabolic regulation of Alzheimer's gut microbiota and its effect on immune regulation and morphology of gastrointestinal tract in mice	Ministry of Higher Education (Oct, 2023-2026)	Ongoing
Geran Putra IPS UPM.RMC.800- 1/1/GERANPUTRA (Principal investigator) RM25,000	Investigation of Lithium Effect on Rest Expression And Astrogliosis in Down Syndrome	Universiti Putra Malaysia (Dec, 2022-2024)	Ongoing
FRGS FRGS/1/2022/SKK10/UPM/02/4 (Principal investigator) RM165,036	Investigation of cell-specific REST expression and its repression on JAK-STAT signalling pathway to revert the neurogenic-to-gliogenic shift in Down syndrome cerebral organoids model	Ministry of Higher Education (Sept, 2022-2025)	Ongoing
IBRO/ISN Return Home Grant Vot: 6380075 (Principal investigator) RM135,000	Establishment of human cerebral organoid cultivation facilities for Down syndrome research in Universiti Putra Malaysia.	International Brain Research Organisation & International Society for Neurochemistry (Mac 2021-2023)	Completed
FRGS/1/2022/SKK10/UPM/02/3 (Co-investigator) RM127,253	In vitro verification of the molecular mechanisms of miR-101-3p and its target mRNA in diabetic kidney disease.	Ministry of Higher Education (Sept, 2022-2024)	Ongoing
FRGS FRGS/1/2022/SKK01/UPM/02/4) (Co-investigator) RM148,650	Elucidating the novel mechanistic effect of ketone energy drinks on cerebral cortical excitability and plasticity using transcranial magnetic stimulation parameters and blood biomarkers in a Malaysian community	Ministry of Higher Education (Sept, 2022-2024)	Ongoing
FRGS FRGS/1/2021/SKK06/UPM/02/4 (Co-investigator) RM157,000	Investigation of lithium-mediated neuroprotection in Down syndrome via REST (RE1-silencing transcription factor) restoration	Ministry of Higher Education (Feb, 2021-2023)	Completed
FRGS FRGS/1/2020/SKK06/UPM/02/2 (Co-investigator) RM185,200	Molecular mechanism of Centella asiatica-enriched Exosomes in Mediating Neural Stem Cell activity in vitro: A fundamental understanding towards cell free therapy for brain diseases	Ministry of Higher Education (Feb, 2020-2023)	Ongoing
FRGS FRGS/1/2020/SKK01/UPM/01/1 (Co-investigator) RM166,900	Whole-Exome Scanning for Variants and the Aetiology Associated with the Development of Dupuytren's Contracture Using Next Generation Sequencing	Ministry of Higher Education (Feb, 2020-2023)	Ongoing
FRGS FRGS/1/2019/SKK08/UPM/02/8 (Co-investigator) RM149,200	Amelioration of beta and alpha- thalassaemia using Adenosine Base Editors (ABE) as a genome editing tool.	Ministry of Higher Education (Feb, 2019-2023)	Ongoing
Geran Putra IPS UPM/700-2/1/GP- IPS/2017/9540800 (Principal investigator) RM20,000	Identification and validation of a novel human orthologue for <i>miR-3099</i> known as mds21	Universiti Putra Malaysia (July, 2017-2018)	Completed
Sciencefund 02-01-04-SF2336 (Principal investigator) RM293,523	Targeting JAK-STAT signalling pathway to revert neurogenic-to- gliogenic shft in the brain of Ts1Cje mouse model for Down syndrome	Ministry of Science, Technology and Innovation (MOSTI) (Nov, 2015-Mac, 2018)	Completed

FRGS FRGS/1/2015/SKK08/UPM/02/1 (Co-investigator) RM139,000	Role of the JAK-STAT signaling pathway during neurogenic-to- gliogenic shift in the brain of Ts1Cje Mouse Model for Down syndrome.	Ministry of Higher Education (Nov, 2015-2018)	Completed
FRGS FRGS/1/2015/ICT04/UKM/02/3 (Co-investigator) RM122,000	Membrane computing to accelerate the processing of RNA sequence for effective cancer diagnosis	Ministry of Higher Education (Nov, 2015-2017)	Completed
NKEA Research Grant Scheme (NRGS) (Co-investigator) RM253,000	Neuro-enhancement capability and neuroregenerative effects of pegaga (<i>Centella asiatica</i>) on neurons differentiated from animal stem cell lines	Ministry of Agriculture (Jan 2015-2017)	Completed
FRGS FRGS/1/2014/TK03/UPM/02/1 (Co-investigator) RM119,000	Characterization of Graphene Material in MEMs Pressure Sensor Design for Medical Application	Ministry of Higher Education (July, 2014-2016)	Completed
Geran Putra IPS UPM/700-2/1/GP- IPS/2014/9448800 (Co-investigator) RM15,000	Protein and gene expression profile of skeletal muscles in Ts1Cje Mouse Model of Down Syndrome: an insight to muscle weakness	Universiti Putra Malaysia (Mac, 2015-2016)	Completed
Geran Putra IPS UPM/700/2/1/GP- IPS/2013/9399833 (Principal investigator) RM15,000	The association of CDKL5 and STXBP1 gene mutations in paediatric patients with early-onset epileptic encephalopathy in Malaysia	Universiti Putra Malaysia (Jan, 2014-2015)	Completed
Geran Putra IBT UPM/700/2/1/GP- IBT/2013/9409500 (Co investigator) RM198,963	Molecular, metabolic and functional characterization of adult skeletal muscle in Down syndrome mouse model: insights into the muscle weakness seen in human condition	Universiti Putra Malaysia (Nov, 2013-2015)	Completed
Geran Putra IPS UPM/700/2/1/GP- IPS/2013/9398900 (Co investigator) RM15,000	Validation of defective neurogenesis and neuronal morphogenesis in the adult Ts1Cje mouse model of Down syndrome	Universiti Putra Malaysia (Nov, 2013-Feb 2015)	Completed
FRGS FRGS/1/2013/SKK01/UPM/02/04 (Co-investigator) RM90.000	Investigation of inducible Wnt5a function in regulating differentiated midbrain dopaminergic neurons	Ministry of Education (July, 2013-2015)	Completed
RUGS 04-02-12-2102RU (Principal investigator) RM176,944	Identification of molecular mechanism responsible for hypotonia in adult Ts1Cje mouse model of Down syndrome	Universiti Putra Malaysia (Nov, 2012-June 2015)	Completed
RUGS 04-02-12-2120RU (Principal investigator) RM10,000	Expression profiling of a novel microRNA, miR-3099, during neuronal development using an in vitro system	Universiti Putra Malaysia (Nov, 2012-2014)	Completed
FRGS 04-01-12-1126FR (Principal investigator) RM81,100	A mouse embryonic stem cell culture system with stable and regulatable expression for a novel microRNA, miR3099: An <i>in vitro</i> approach towards functional genomic study	Ministry of Higher Education, MOHE (2012-2015)	Completed
Science Fund 02-01-04-SF1538 (Co-investigator) RM196,000	MicroRNA-mediated immunomodulation of microglia by mesenchymal stem cells	Ministry of Science, Technology and Innovation (MOSTI) (Nov, 2012-2014)	Completed
RUGS 04-02-12-1757RU (Co-investigator) RM150,000	Exploration of mesenchymal stem cells (MSC) mediated immunosuppression through microRNA array: a global analysis	Universiti Putra Malaysia (Aug, 2012-2014)	Completed
Science Fund (Co-investigator) RM263,600	Establishment of the first "super electroporator" platform in Malaysia for the delivery ofbicistronic expression vectors with shRNA and GFP open reading frames into the cerebral cortex of mouse model for Down syndrome.	Ministry of Science, Technology and Innovation (MOSTI) (May, 2012-2014)	Completed

RUGS (Co-investigator) RM32,000	ARX gene mutations and its association with infantile epilepsy.	Universiti Putra Malaysia (2011-2013)	Completed
ERGS ERGS/1/11/SKK/UPM/03/1 (Co-investigator) RM119,000	<i>In vivo</i> analysis of a novel miRNA, 1181, during mouse cerebral corticogenesis using <i>in utero</i> electoporation (IUE) approach	Ministry of Higher Education, MOHE (2011-2014)	Completed
FRGS 03-10-10-949FR (Co-investigator) RM97,000	Functional targeting of miRNA-185 and miRNA-223 to elucidate the significance of upregulation in bladder tumourigenesis.	Ministry of Higher Education, MOHE (2010-2012)	Completed
RUGS 04-01-11-1163RU (Co-investigator) RM160,000	The identification of disrupted molecular networks involved in brain maturation and function in the Ts1Cje mouse model of Down Syndrome.	Universiti Putra Malaysia (2011-2013)	Completed

RESEARCH FUNDING FOR TRAVEL/TRAINING

Role / Quantum of funding	Title	Awarding authority (Duration)	Status / Outcome
IBRO Travel Grant for PI category (Recipient) EUR1645	To attend IBRO World Congress 2023, Granada, Spain, as a poster presenter.	International Brain Research Organization (IBRO)	In September 2023
ISN-ESN Symposium Speaker's Honorarium (Recipient) USD1500	To attend ISN-ESN Meeting 2023, Porto, Portugal, as the chair and speaker for Symposium related to Neurodevelopmental Disorders	International Society for Neurochemistry (ISN)	In August 2023
APSN 2023 Speaker's Honorarium (Recipient) SGD400	To attend APSN 2023, Singapore, as Workshop/YIC on Cutting Edge in Stem Cell Applications session chair and speaker.	Asia Pacific Society for Neurochemistry (APSN)	Travel completed
APSN Council Honorarium (Recipient) USD500	To attend APSN 2023, Singapore, as APSN council member representing Malaysia.	Asia Pacific Society for Neurochemistry (APSN)	Travel completed
APSN Council Honorarium (Recipient) USD500	To attend APSN 2022, Honolulu, Hawaii, USA as APSN council member representing Malaysia.	Asia Pacific Society for Neurochemistry (APSN)	Travel completed
Mongolian Neuroscience Society (MNS) Travel Honorarium (Recipient) USD1100	To attend 9 th Annual Meeting of the Mongolian Neuroscience Society at Mongolian Academy of Sciences, Ulaanbaatar, Mongolia	Mongolian Neuroscience Society (MNS)	Travel Completed
IBRO-ISN Research Fellowship (Recipient) EUR35000	For postdoctoral fellowship at Havard Medical School, Harvard University, USA.	International Brain Research Organization (IBRO) (01.12.2016 – 30.11.2017)	Completed
APSN Travel Honorarium (Recipient) USD500	To attend APSN 2014, Kaoshiung, Taiwan as Symposium Chair / Speaker.	Asia Pacific Society for Neurochemistry (APSN) (22.08 – 26.08.2014)	Travel completed
RU Travel Funding UPM/TNCPI/BPI/1.16/F11 (Recipient) RM4,200	Research attachment and visit to SA Pathology at Institute of Medical and Veterinary Science, SA, Australia	Universiti Putra Malaysia (19.9 – 21.10.2011)	Travel completed
RU Travel Funding UPM/TNCPI(BP)/400-5/3/5 (Recipient) RM6,200	To attend SfN Neuroscience 2012 Conference in New Orleans, USA	Universiti Putra Malaysia (12.10 – 21.10.2012)	Travel completed
IBRO-SfN Travel Grant (Recipient) USD2,000	To attend SfN Neuroscience 2012 Conference in New Orleans, USA	International Brain Research Organization (IBRO)	Travel completed

OTHER FUNDING

Role / Quantum of funding	Title	Awarding authority (Duration)	Status / Outcome
Programme Chair (RM22,180.00)	IBRO Associate School on	Malaysian UNESCO Commission (SKUM) GSS	
Programme Chair (EURO18,000)	Cerebral Organoids as a model for Ageing Neurobiology Research	International Brain Research Organization (IBRO) (December 2023)	Ongoing
Programme Chair (EURO5000)	IBRO Global Advocacy Programme in Neuroscience for Malaysian Society of Neurosciences	International Brain Research Organization (IBRO) (March 2016)	Completed

RESEARCH ATTACHMENT

Institution	Description	Date (Duration)
SA Pathology at the Institute of		19.9.2011-
Medical and Veterinary Science	Research attachment and academic visit.	21.10.2011
(IMVS), SA, Australia		(5 weeks)
University of California, Los Angeles (UCLA), USA	Research attachment to learn " <i>In utero</i> electroporation technique for gene delivery into the mouse cerebral cortex".	20.1 – 22.1.2010 (3 days)
Wellcome Trust Sanger	Research attachment to learn "Genome informatics/	22.2 - 5.3.2005
Genome Institute (WTSGI), UK	annotations of Eimeria tenella chromosome 1".	(2 weeks)

(F) SUPERVISION OF STUDENTS

POSTGRADUATE CANDIDATES

As Main Supervisor (or Chairman of the Supervisory Committee) in UPM			
Degree	Name of candidates	Research / Thesis title	Candidature (Status)
		MASTER CANDIDATES	
M.Sc.	Premala A/P Devaraju (GS65095 – Human Genetics)	In vitro verification of the molecular mechanims of miR-101-3p and its target mRNA in diabetic kidney disease	2022 – present (Ongoing)
M.Sc.	Aldochachi Asraa Faris Abdulridha (GS47484 – Neuroscience)	The screening of BDNF single nucleotide polymorphisms and the BDNF level of Malaysian diagnosed with major depressive disorder.	2016-2018 (Graduated)
M.Sc.	Hamizun bin Hamzah (GS43675 – Neuroscience)	Evaluation of ruxolitinib as a supplement for neurogenesis enhancement in the brain of Ts1Cje mouse model for Down syndrome	2015-2019 (Graduated)
M.Sc.	Hadri Hadi Bin Md Yusof (GS41572 – Neuroscience)	Role of gamma-secretase in neurogenic-to- gliogenic shift in the brain of Ts1Cje mouse model for Down syndrome	2014-2017 (Graduated)
M.Sc.	Melody Leong Pui Yee (GS39294 – Genetics)	Transcriptomic analysis of the skeletal muscles isolated from the Ts1Cje mouse model of Down syndrome	2014-2017 (Graduated)
M.Sc.	Siew Wei Hong (GS32977 – Neuroscience)	<i>In utero</i> analysis of <i>miR-3099</i> role in the development and function of the mouse brain.	2012-2014 (Withdrew as the supervisor in 2014)
		PHD CANDIDATES	
Non- graduating PhD	Abubakar Umar Anka (GS69083 – Research)	Assessment of the Seroprevalence of Hepatitis B Virus, Immunological Parameters And Hla-Dp/Dq Polymorphism(S) Among Blood Donors Attending Ahmadu Bello University Teaching Hospital-Zaria	2023 – present (Ongoing)
Ph.D.	Lim Chong Teik (GS65537 – Neuroscience)	Investigation of the role of REST in synaptic development and neural connectivity in Down Syndrome human induced pluripotent stem cell (hiPSC)-derived cerebral organoids and assembloids	2022 – present (Ongoing)

Ph.D.	Norhazlin binti Jusoh @ Mohd Yusoff (GS62378 – Molecular Biology and Genetic Engineering)	The role of REST in JAK-STAT signaling pathway during neurogenesis in Down syndrome human induced pluripotent stem cell-derived cerebral organoids	2021-present (Ongoing)
Ph.D.	Huang Tan (GS62237 – Neuroscience)	Investigation of lithium-mediated neuroprotection in Down syndrome via REST restoration	2021-present (Ongoing)
Ph.D.	Roghayeh Ijabi (GS63889 – Pharmacology)	Influence of siRNA COG3 on the level of YKL40 on improvement of ovarian cancer in advanced stage	2022 – 2023 (Terminated)
Ph.D.	Shahidee Bin Zainal Abidin (GS42271 – Neuroscience)	Establishment and charaterisation of an in vitro system with stable and regulatable mir- 3099 gene expression to study murine neurogenesis.	2014-2019 (Pass with Distinction)
Ph.D.	Lee Han Chung (GS35408 – Neuroscience)	In utero characterization of neurogenesis in Ts1Cje mouse model for Down syndrome	2013-2018 (Graduated)
Ph.D.	Asween Rowena Binti Abdullah Sani (GS40969 – Human Genetics)	BDNF and Major Depression Disorder (MDD)	2014 (Withdrew Candidacy)
	As Co-Supervisor (or M	ember of the Supervisory Committee) in L	JPM
Degree	Name of candidates	Research / Thesis title	Candidature (Status)
		MASTER CANDIDATES	
M.Sc	Mariam Ahmed Abdelbadie Mohamed (GS62582 – Molecular Medicine)	Association of THADA, LHCGR, DENND1A, CYP17A1, and FSHR gene polymorphisms in infertile Malay women with PCOS	2021-2024 (Writing)
M.Sc	Nahil Hassan Mahmoud Ahmed (GS58794 – Haematology)	Amelioration of HbE/beta-thalassemia using Adenine Base Editor (ABE) as genome editing tool	2020-present (Ongoing)
M.Sc	Aishah Amirah binti Shamsul Kamal (GS59289 – Cancer Biology and Oncology)	Lung Cancer Killing Potency Of Trail Expressed From Various Sources Of Mesenchymal Stem Cells	2020-2024 (Submitted)
M.Sc	Khairul Akmal bin Abdul Rahman (GS57300 – Stem Cell)	The Effect Of Ethanolic Extract Of Centella Asiatica (Ca) At Various Time-Point On Proliferation And Trans-Differentiation Of Full- Term Amniotic Stem Cells (Afscs) Into Neural Stem Cells (Nscs)	2020-present (Writing)
M.Sc	Nurfhaezah binti Khairil Wahidin (GS56115 – Molecular Biology And Genetic Engineering)	Amelioration Of Alpha-Thalassaemia Using Adenine Base Editor (Abe) As A Genome Editing Tool	2019-present (Ongoing)
M.Sc	Sahba Jafarian Nasserizad (GS45116 – Neuroscience)	Effects of Zerumbone on anxiety, learning and memory in scopolamine-induced animal model of dementia	2015-2019 (Graduated)
M.Sc	Muhammad Omar bin Habib Rahuman (GS39071 – Molecular Medicine)	Gene expression profiles of CpG motifs depleted plasmid DNA.	2014-2017 (Graduated)
M.Sc	Nurul Afiqah binti Mohamed Hisham (GS38283 – Neuroscience)	Regulating of inducible Wnt5a during midbrain dopaminergic neuron (DA) differentiation.	2014-2017 (Graduated)
M.Sc.	Ameerah Jaafar (GS34020 – Genetics)	The association of ARX, CDKL5 and STXBP1 gene mutations in paediatric patients with early-onset epileptic encephalopathy in Malaysia.	2012-2015 (Graduated)
M.Sc.	Maryam Abbaspour Babaei (GS26602 – Human Genetics)	Functional characterisation of a novel miRNA, <i>miR-3099</i> , in the development of neurones.	2011-2012 (Terminated)
		PHD CANDIDATES	
Ph.D.	Aissvarya a/p Shankar (GS62753 – Human Genetics)	The Development Of Dupuytren's Contracture In Malaysia Through Integrated Molecular And Functional Approaches	2021-present (Ongoing)

Ph.D.	Zhou Qingzhong (GS61592 – Medical Sciences)	Effects Of Y-Secretase Inhibitors And Paralyzed Spinal Cord Extracts On The Proliferation And Differentiation Of Brain- Derived Neural Stem Cells In Newborn Rats By Regulating Notch Signaling Pathway	2021-2023 (Withdrew as co- supervisor)
Ph.D.	Heidarzadehpilehrood Roozbeh (GS57113 – Human Genetics)	Rna-Sequencing Analysis Of Malay Women With Polycystic Ovary Syndrome And Identifying Biomarkers Involved In Infertility	2019-2024 (Submitted)
Ph.D.	Ghasemiahangarkolaee Seyedabbas (GS49742 – Human Genetics)	Oncolytic Effects Of Newcastle Disease Virus (Ndv) On Human Pancreatic Adenocarcinoma Stem Cells And Molecular Analysis Of Gene Expression	2017-2024 (Submitted)
Ph.D.	Low Cheng Yee (GS45953 – Medical Microbiology)	Transcriptomic and proteomic profile of Leptospirosis patients	2015-2024 (Pass Viva)
Ph.D.	Nur 'Izzati binti Mansor (GS44546 - Neuroscience)	Neuroregenerative effect of Pegaga (Centella asiatica) extract and animal stem cell-conditioned medium combined treatment on rat model of neurodegenerative disease	2015-2021 (Graduated)
Ph.D.	Badamasi Ibrahim Mohammed (GS39794 – Pharmacology)	Pharmacogenomics and pharmacometabolomics of selective serotonin reuptake inhibitors in patients with depression at hospitals in the Klang valley, Malaysia.	2015-2019 (Graduated)
Ph.D.	Isah Abubakar Aliyu (GS41465 – Medical Microbiology)	Molecular identification of dengue virus binding protein on filopodia of vero cells	2015-2019 (Graduated)
Ph.D.	Satar Jabbar Rahi Al- Qraittee (GS38500 – Immunobiology)	Immunomodulatory and gene expression profile of human mesenchymal stem cells derived from normal and osteoarthritis cartilage.	2015-2018 (Graduated)
Ph.D.	Yow Weng Kit (GS35521 – Human Genetics)	Variation in CCL3L1 gene copy number and polymorphism at CCR5 gene promoter affect HIV/AIDS susceptibility, progression and severity.	2015-2017 (Withdrew)
Ph.D.	Aina Mardhhiyah binti Mohamad Ghazali (GS37716 – Electronic Engineering)	Novel plantar system for diabetes foot using multi array pressure sensor based on modified wheatstone bridge circuit.	2015-2019 (Terminated)
Ph.D.	Mohadese Hashem Borojerdi (GS33524 – Immunobiology)	The crosstalk between hematopoietic stem cell and mesenchymal stem cell in <i>in vitro</i> culture.	2014-2015 (Graduated)
Ph.D.	Lee Siew Siew (GS37413 – Nutrition Sciences)	Functional gene polymorphism and plasma- 25-hydroxyvitamin D in pregnant women and neonates.	2014-2020 (Graduated)
Ph.D.	Mohammadreza Etemadi (GS31796 – Medical Microbiology)	A high-throughput analyses of genomics and proteomic approaches on human rhinovirus infections to look for novel potential markers for diagnostic and treatment.	2014-2017 (Graduated)
Ph.D.	Parham Jabbarzadeh Kaboli (GS36929 – Molecular Medicine)	Anti-cancer effects of berberine on the expression level of microRNAs and apoptotic genes in breast cancer cell lines.	2014-2018 (Graduated)
Ph.D.	Sayyad Mustak (GS29320 – Pharmacology & Toxicology)	Development of Bio-functional inorganic nanoparticles for efficient gene delivery to breast cancer cells <i>in vitro</i> and <i>in vivo</i> .	2013-2016 (Graduated)
Ph.D.	Salma Ahmadloo (GS35111 – Human Genetics)	Gene expression profiling of Malaysian male subjects with premature coronary artery disease	2012-2018 (Graduated)
Ph.D.	Lee Le Jie (GS30986 – Molecular Biology)	Association of gender with genetic polymorphism of natural killer cell genes in aculte lymphoblastic leukaemia among Malays	2011-2018 (Graduated)
Ph.D.	Shinsmon Jose (GS27640 – Immunobiology)	Deciphering immunomodulatory effects of bmMSCs on microglia: a molecular approach.	2010-2013 (Graduated)

Ph.D.	Theanmalar Masilamani (GS26955 – Medical Biotechnology)	Functional characterisation of a Sox4 sense- NATs dsRNA derived endogenous siRNA role during neurogenesis.	2010-2017 (Graduated)
Ph.D.	Vahid Hosseinpour Sarmadi (GS17949 – Immunobiology)	Deciphering the anti-tumour activity of human umbilical cord mesenchymal stem cells on haematopoetic tumours using in vitro models.	2011-2016 (Graduated)
Ph.D.	Azadeh Bahadoran (GS31802 – Molecular Biotechnology)	Characterisation of chicken dendritic cells as antigen-presenting cell biosensor for the detection and differentiation of avian pathogens	2011-2014 (Withdrew as the co-supervisor in 2014)
ŀ	As Co-Supervisor (or Men	nber of the Supervisory Committee) outside	de UPM
Degree	Name of candidates	Research / Thesis title	Candidature (Status)
M.Med. (Internal Medicine)	Dr. Tan Eng Liang Universiti Kebangsaan Malavsia (UKM)	Impulse-control disorders in patients with Parkinson's disease: Genetic and neurobiological correlations.	2012-2014 (Graduated)

UNDERGRADUATE CANDIDATES

As Supervisor for Undergraduate Dissertation			
Degree	Name of candidates	Research Title	Duration
B.Sc. (Biomed. Sci.)	Goh Bing Cheng (205447)	Characterization of REST targeted gene expression in Down Syndrome neural models.	2023-2024
B.Sc. (Biomed. Sci.)	The Jie Teng (205893)	Validation of REST target genes in Down Syndrome Organoids using Chromatin Immunoprecipitation Polymerase Chain Reaction (ChIP- PCR) approach	2023-2024
B.Sc. (Biomed. Sci.)	Aina Aisyah Binti Mohammad Amin Woon (207700)	Development and Validation of An Affordable, Specific and Sensitive Assay To Detect Mycoplasma spp. in Cell Culture Media	2023-2024
B.Sc. (Biomed. Sci.)	Lim Shi En (203652)	Evaluation of motor skills and neurobehavioral changes in adult mice after prenatal ruxolitinib treatment	2022-2023
B.Sc. (Biomed. Sci.)	Nurul Syahirah Binti Mazhar (200849)	The role of ruxolitinib in astrogenesis via modulation of the JAK/STAT signalling pathway in the newborn mouse brain	2022-2023
B.Sc. (Biomed. Sci.)	Lim Chong Teik (196943)	Spatiotemporal Analysis Of Rest Expression In The Brain Of Ts1cje Mouse Model Of Down Syndrome	2021-2022
B.Sc. (Biomed. Sci.)	Crystal Arthini A/P Arrumugam (198258)	Construction And Validation Of Mammalian Expression Vector For Human Rest Coding Sequence	2021-2022
B.Sc. (Biomed. Sci.)	Fam Sze Zheng (162354)	Cloning and characterization of expression clones for miR-3099 and miR-3099 antagomir.	2015-2016
	As Ac	ademic Advisor	
Degree	Name of candidates	Programme	Duration
B.Sc. (Biomed. Sci.)	Au Kit Ying (214972)	Biomedical Science	2022-2023
B.Sc. (Biomed. Sci.)	Chong Zhong Man (215051)	Biomedical Science	2022-2026
B.Sc. (Biomed. Sci.)	Naufa Azzahra Binti Mohd Rashid (212805)	Biomedical Science	2021-2025
B.Sc. (Biomed. Sci.)	Muhamad Syamil Bin Mohd Sukri (212871)	Biomedical Science	2021-2025
B.Sc. (Biomed. Sci.)	Kavitha A/P Banu (212852)	Biomedical Science	2021-2025
B.Sc. (Med. Sci.)	Nurul Izzati Binti Mohd Jamil (183364)	Medical Doctor Degree (Preclinical Year)	2015-2016

B.Sc. (Med.	Nurul Diyana Binti Mohd	Medical Doctor Degree (Preclinical	2015-2016
Sci.)	Yusob (181724)	Year)	2013-2010
B.Sc. (Med. Sci.)	Rina Yuhana Binti Mohamad Yunus (174837)	Medical Doctor Degree (Preclinical Year)	2014-2015
B.Sc. (Med. Sci.)	Siti Hawa Zalikha Binti Jaapar (169815)	Medical Doctor Degree (Preclinical Year)	2013-2015
B.Sc. (Med. Sci.)	Chow Zhen Yee (169815)	Medical Doctor Degree (Preclinical Year)	2012-2014
B.Sc. (Med. Sci.)	Muhammad Amir Hakim bin Jasmani (169814)	Medical Doctor Degree (Preclinical Year)	2012-2014
B.Sc. (Med. Sci.)	Nur Atiqah binti Roslan (163711)	Medical Doctor Degree (Preclinical Year)	2012-2013
B.Sc. (Med. Sci.)	Pan Kok Onn (163894)	Medical Doctor Degree (Preclinical Year)	2012-2013
(As Main Supervisor for Int	erns Undergoing Industrial Training	
Degree	Name of candidates	Programme	Duration
B. Sc. (Biochemistry)	Navaroshini Balamuraly (U2004618/1)	Candidate from Universiti Malaya	07.2023- 09.2023
B. Sc.	Xenia Thielmann	University of Bonn, Germany	06.2023- 09.2023
			06.2023-
	Sandra Ong Li Shan	Candidate from St. Joseph International	07.2023 &
ID/IGSCE	Sanura Ong Li Shan	School, PJ, Malaysia	07.2022-
			08.2022
B.Sc. (Biomed.	Lau Siew Mei (208566)	Candidate from Universiti Putra	08.2022-
Sci.)		Malaysia	09.2022
B.Sc. (Biomed. Sci.)	Nur Aida Binti Mohamad Shah (20753)	Candidate from Universiti Putra Malaysia	08.2022- 09.2022
B.Sc. (Biomed.	Aina Aisyah Binti Mohammad	Candidate from Universiti Putra	08.2022-
Sci.)	Amin Woon (207700)	Malaysia	09.2022
B.Sc. (Biomed.	Chang log Van (207422)	Candidate from Universiti Putra	08.2022-
Sci.)		Malaysia	09.2022
B.Sc. (Biomed. Sci.)	Heng Zee Thung (209132)	Candidate from Universiti Putra Malaysia	08.2022- 10.2022
B.Sc. (Biomed.	Lim Chong Teik	Candidate from Universiti Putra	07.2021-
Sci.)	(196943)	Malavsia	09.2021
B.Sc. (Biomed.	Crystal Arthini A/P Arrumugam	Candidate from Universiti Putra	07.2021-
Sci.)	(198258)	Malaysia	09.2021
B.Sc.		Candidate from Cohen Institute of	00.0014
(Mol. Biol. & Genetics)	Esad Eseoglu	Technology, Turkey	06.2014- 08-2014
B.Sc.	Hadri Hadi bin Md Yusof	Candidate from International Medical	03.2014-
(Biomed. Sci.)	(BM0711031441)	University	06.2014
B.Sc.	Ashwinder Kaur	Candidate from International Medical	03.2013-
(Biomed. Sci.)	(BM0710030246)	University	06.2013
B.Sc.	See Jia Wen	Candidate from International Medical	03.2013-
(Biomed. Sci.)	(BM0710029889)	University	06.2013
B.Sc. (Biomed. Sci.)	Siti Aqilah Binti Abdul Kadir (SEN120021)	Candidate from Universiti Malaya	06.2015- 08.2015
B.Sc.	Mohamad Shafiz Bin Abdul	Condidate from Universiti Malava	06.2015-
(Biomed. Sci.)	Jalil (SEN120008)	Candidate from Universiti Malaya	08.2015
B.Sc.	Marzieh Mahmoudi	Condidate from Universiti Malava	06.2015-
(Biomed. Sci.)	(SEN120702)		08.2015
B.Sc.	Fam Sze Zheng	Candidate from Universiti Putra	06.2015-
(Biomed. Sci.)	(162354)	Malaysia	08.2015

(G) SCIENTIFIC OR ACADEMIC REVIEW / EDITROIAL

EXAMINER FOR RESEARCH THESIS

Year	Candidate (Degree)	Title of Thesis	Capacity	Institution / Level
2023	Gayathri Arumughan (PhD – GS55178)	Identification And Quantification Of Anelloviruses Ttv And Ttmv Viral Load In Covid-19 Infected And Non- Infected Individuals In UAE	Internal	Universiti Putra Malaysia / National
2023	Yunusa Suleiman (PhD)	Role of Histone Regulations and Neuroplasticity in the Modification of Cognitive Functions of Mitragynine Addictive Rats	External	Universiti Sains Malaysia / National
2023	Fatin Nadzirah Binti Zakaria (PhD – GS55567)	Neurotherapeutic Potential of Delta-9- Tetrahydrocannabinol on D-Galactose and Aluminium Chloride Induced Alzheimer-Like Animal Model	Chair	Universiti Putra Malaysia / National
2023	Noor Azila Binti Ismail (PhD)	Pengenalpastian Polimorfisme Gen Faktor Neurotrofik Berasal (BDNF) Val66Met Sebagai Penanda Bio Kepada Prestasi Kognitif Otak yang Semakin Tua Sebagai Tindakbalas Terhadap 8 Minggu Latihan Exergames	External	Universiti Sains Malaysia / National
2021	Tan Ke En (MSc)	Identification And Characterization Of A Novel Epstein-Barr Virus-Encoded Circular Rna From Lmp-2 Gene	External	Universiti Malaya / National
2021	Shamin Azwar bin Amin (GS48236) (PhD)	Roles Of Intracellular And Exosomal Long Non-Coding Rnas In The Modulation Of 5-Fluorouracil Chemosensitivity In Colon Cancer	Internal	Universiti Putra Malaysia / National
2021	Gayatri Gandhi (19120005) (MSc)	Identification and Evaluation of Human microRNA-663A overexpression on survival motor neuron genes in spinal muscular atrophy patient fibroblast-derived iPSC.	External	Perdana University / National
2021	Avin Koh Ee Hwan (GS45768) (PhD)	Transcriptome And Pathway Analyses Of Degenerating Retinas Treated With Erythropoletin-Expressing Mesenchymal Stem Cells	Internal	Universiti Putra Malaysia / National
2021	Alvin Dickson Anak Paul Joko (PhD)	Phosphorylation Of Human Interferon Regulatory Factor 9	External	Universiti Sains Malaysia / National
2017	Nur Fadhlina Mohamad Pakarul Razy (P69661) (MSc)	Mutasi Gen Glucocerebrosidase (GBA1) Di Dalam Populasi Penyakit Parkinson Melayu	External	Universiti Kebangsaan Malaysia / National
2015	Azhari Bin Abd Aziz (PhD)	Characterization of the deleted in Autism 1 gene family	External	Latrobe University, Melbourne / International
2014	Heidi Shiow Chyong Liou (PhD)	Investigations on the Role of RAB23 on Corticogenesis in Mouse	External	National University of Singapore (NUS / International

JOURNAL EDITORIAL

Year	Position	Journal
2018 - present	Founding Editor-in-Chief	Neuroscience Research Notes
2018 - present	Associate Editor	Malaysian Journal of Medicine and Health Sciences
2020 - present	Associate Editor	Frontiers in Genetics
2022 - present	Associate Editor	Gene Reports

REVIEWING PANEL FOR JOURNALS

For journal articles reviewing and editorial contributions please visit the following verified URL: <u>https://www.webofscience.com/wos/author/record/M-2349-2018</u>

REVIEWING PANEL FOR GRANTS

Year	Grant name – Amount	Title	Level
2023	Ministry of Higher Education – FRGS 1/2023 (Grant value = RM197,300)	Exploring the Regulatory Effects of miR-486 on Skeletal Muscle Mitochondrial Biogenesis in an In-Vitro Model of Sarcopenia	IPT Level / Perdana University
2023	Ministry of Higher Education – FRGS 1/2023 (Grant value = RM206,067)	Discovering the potential of Tocotrienol-rich fraction (TRF) as a neuroprotector in the cerebral glucose metabolism on the 18F FDG PET-CT in Transgenic-mice Alzheimer's disease (AD)	IPT Level / UPM
2023	Ministry of Higher Education – FRGS 1/2022 (Grant value = RM178,000)	The development of novel biomarkers for Endometrial Cancer in PCOS: \nAnalysis of Endometrial Tissues for Gene Expression and Targeted\nProtein Profile of Endometrial Cancer Among Malay woman with PCOS	IPT Level / UPM
2022	Health and Medical Research Fund from The Government of the Hong Kong Special Administrative Region (HKSAR) Grant value = HKD1,498,000	Project: 20211431: Primary cilium in the neuropathological mechanism of monogenic obesity	International
2022	Ministry of Higher Education – FRGS 1/2022 (Grant value = RM208,254)	Establishing New-Improved Protocol for Transmission Electron Microscopy (TEM) in Lupus Nephritis Renal Biopsy Specimen	IPT Level / UPM
2022	Ministry of Higher Education – FRGS 1/2022	The Role of Peroxisome Proliferator-activated Receptor-β/δ antagonist in Melanogenesis	IPT Level / UPM
2022	Ministry of Higher Education – FRGS 1/2022 (Grant value = RM250,000)	Investigating The Jak2/Stat3 And Mcp1/Ccl2 Pathways Related To Inflammation In Diabetic Kidney Disease	IPT Level / UPM
2022	Ministry of Higher Education – FRGS 1/2022 (Grant value = RM250,000)	Unraveling the Role of a Novel Clinical KRas Inhibitor in Sensitising Non-Small Cell Lung Cancer Harbouring Concomitant EGFR and KRas Driver Mutations to EGFR-Tyrosine Kinase Inhibitors	IPT Level / UPM
2021	Ministry of Higher Education – FRGS 1/2021 (Grant value = RM246,420)	Elucidating the miR-486-mediated modulation effects on skeletal muscle mitochondrial biogenesis in the sarcopenia in-vitro experimental model	IPT Level / Perdana University
2021	Ministry of Higher Education – FRGS 1/2021 (Grant value = RM125,096)	Analyzing the role of serum biomarker in post stroke neuroinflammation and correlation with neurological outcome in acute stroke patient	IPT Level / UPM
2021	Ministry of Higher Education – FRGS 1/2021 (Grant value = RM218,800)	Association Of Vitamin D Receptor (Vdr) Gene Polymorphisms With Pregnancy Complications: Novel Markers For Earlier Intervention Of At- Risk Pregnancies With Vitamin D Deficiency	IPT Level / UPM
2021	Ministry of Higher Education – FRGS 1/2021 (Grant value = RM247,600)	Determining the Role of RANKL, RANK, OPG Cytokine Receptor System and PTHrP in Cancer Cell Proliferation and Bone Metastasis in Patients with Prostate Cancer among Malaysian Population	IPT Level / UPM
2021	Ministry of Higher Education – FRGS 1/2021 (Grant value = RM235,568)	Suppression of DNA-damaged base excision repair enzyme, 8-oxoguanine DNA glycosylase 1 (OGG1), activity as a therapeutic strategy in malaria by downregulating the associated severe immuno-inflammatory reactions	IPT Level / UPM
2020	Ministry of Higher Education – FRGS 1/2020 (Grant value = RM249,700)	Characterization of DNA methylation Pattern of Aberrantly Expressed MicroRNAs in Human Spinal Muscular Atrophy (SMA) iPSC-derived motor neurons	IPT Level / Perdana University

2013	ZonMw, The Netherlands Organisation for Health Research and Development Grant value = £635,000.00	MicroRNA-137 in synaptic development and behaviour relevant to intellectual disability	International
2011	King Abdulaziz University, Jeddah, Saudi Arabia	Clinical and Molecular Characteristics of Noonan syndrome Among Arabs: identification of Unique Mutations and Establishment of a Genetic Test	International
2011	Graduate Women in Science (GWIS) by GWIS Grant value = US\$20,000.00	A study to understand the role of Sox11 in ocular development and congenital ocular defects	International

REVIEWING PANEL FOR POSTGRADUATE RESEARCH PROPOSAL

Year	Name / Matrics No.	Title	Programme
2021	Yakubu Ibrahim (GS61052)	Association Of Bsmi And Foki Vitamin D Receptor (Vdr) Gene Polymorphisms With Gestational Hypertension Among Malay Pregnant Women	PhD
2021	Kumaravel Vealan (GS59002)	Fabrication of nucleic acid lateral flow test strip for point of care diagnostics via uv crosslinking approach using fusion 5 paper.	MSc
2015	Adila Hamid (GS41939)	Assessing the feasibility of human amniotic fluid induced pluripotent stem cells from full term pregnancies as prospective cells for therapy.	PhD
2015	Sa'adatu Abu Bakar Aliyu (GS43052)	Correlation between HPV infection rate and human beta-defensin mRNA expression in pterygium and normal conjunctiva epithelial cells.	MSc
2015	Nurul Hana Zainal Baharin (GS42812)	Beta defensin 9 signalling pthways in human corneal pithelial cell.	MSc
2015	Rohayu Izanwati Mohd Rawi (GS43132)	The establishment of therapeutic properties using serum and xeno free isolated mesenchymal stem cells.	PhD
2015	Saritha A/P Ramachandran (GS40621)	Generation of dopaminergic neuron cells from human peripheral blood derived induced pluripotent stem cell.	MSc
2015	Thena Rasi A/P Mohan (GS40623)	Reprogramming of peripheral blood from Malaysia beta thalassemia patients to induced pluripotent stem cell.	MSc
2015	Nadzatul Nabila binti Roslan (GS39212)	Investigate the role of gamma-secretase and Notch signaling pathway in invasive and non- invasive bladder cancer growth.	MSc
2015	Chin Fee Wai (GS38866)	Identification and characterization of putative oncogene(s) through the elucidation of recurrent and recurrent-progression bladder cancer miRNA-mRNA interactomes.	PhD
2014	Muhammad Khair Joharry (GS37544)	The Establishment of Human Amniotic Fluid Stem Cells from Full-term Pregnancies.	MSc
2014	Pung Hui Ping (GS37964)	Phenotypic and Molecular Analysis of Staphylococcus epidermidis in a Student Population.	MSc
2014	Yaghma Masood (GS36051)	miRNA Profiling and localization in Head and Neck Cancer.	PhD
2014	Norhidayah Binti Mat Azis (GS37922)	Phenotypic and Molecular Analysis of Staphylococcus aureus Carriage and Transition in a Student Population.	MSc
2014	Zahirunisa binti Abd Rahim (GS36578)	Genomic analysis on the evolution of beta defensin gene and copy number in human and selected non-human primates in Sarawak, Malaysia Borneo.	PhD
2014	Chong Yi Joong (GS38217)	Determination of Molecular Target and Anti- inflammatory Effect of tHGA in Endotoxin – Induced Vascular Endothelial Dysfunction and Lethal Sepsis in Mice	MSc
2013	Usman Bala (GS36060)	Cellular and molecular characterization of hypotonia in adult Ts1Cje mouse model for Down syndrome.	PhD
2013	Angeli a/p Ambayya @ Ampiah (GS33730)	Genomic analysis using microarray techniques for acute myeloid leukemia.	PhD

2013	Lee Han Chung (GS35408)	In utero characterization of neurogenesis in Ts1Cje mouse model for Down syndrome.	PhD
2013	10 th Malaysian Genetics Congress 2013	Mapping of genes related to immunity in the <i>Nasalis larvatus</i> genome using bioinformatic approaches.	Conference
2013	He Pei Yuan (GS34590)	The function of microRNA-181 in colorectal cancer.	PhD
2012	Polin Haghvirdizadeh (GS32982)	Association of ABCA1 polymorphisms in Malaysian type 2 diabetes mellitus subjects.	MSc
2012	Somayeh Khazaei Kouhpar (GS35022)	Cytotoxic effect of Allium atroviolaceum extract against human colon cancer (CACO2) and liver cancer (HEPG2) cell lines	PhD
2012	Hani Shuhanti bt Mohamad Hanafiah (GS30463)	Characterization of Induced Pluripotent Stem Cells Produced Using Lentiviral and non-Viral Gene Delivery Techniques	MSc
2012	Nurul Fasihah Zulkifli (GS32484)	Differential genetic expression of inflammatory cytokines in peripheral venous blood of male patients with coronary artery disease.	MSc
2012	Tan Keai Sinn (GS32811)	Identification and functional analysis of candidate molecules in regulating liver sinusoidal endothelial cells development.	PhD
2012	Siew Wei Hong (GS32977)	<i>In utero</i> analysis of miR-3099 role in the development and function of the mouse brain.	MSc
2012	Farizeh Aalam Ghomi Tabatabaee (GS33248)	Methylation status of aldosterone synthase (CYP11B2) gene in essential hypertensive subjects.	MSc
2012	Ntimi Carolindah Makena (GS30464)	Neuroprotective effects of pegaga and hempedu bumi on induced oxidative stress in neurons differentiated from in vitro model for Alzheimer's disease.	MSc
2012	Kohila a/p Krishnan (GS32095)	Phenotypic characterization and anti tumor activity analysis of in vitro cultured Natural Killer cells and Cytotoxic T cells towards the contribution to cell based therapy.	MSc
2012	Chithra a/p Ramanathan Pullai (GS32096)	Phenotypic characterization and anti tumor activity analysis of in vitro cultured T- lymphocytes and Natural Killer cells towards the contribution to cell based therapy.	MSc
2012	Siti Farizan Mansor (GS29703)	Role of CTAG1B in invasive urothelial cell carcinoma	MSc
2012	Tong Chih Kong (GS32670)	The role of microglia in neurogenesis	PhD
2011	Maryam Abbaspour Babaei (GS26602)	Functional characterization of a novel miRNA, miR3099, in neural differentiation.	MSc
2011	Naghmeh Ghiasi (GS26782)	Investigation of a potential molecular target therapy for breast cancer using shRNA technology in combination with cancer immunotherapy.	PhD
2011	Hoo Mun Fun (GS28981)	Pluripotentiality capacity of rat amniotic fluid- derived stem cells (AFSCs) from full term pregnancy.	PhD
2011	Tan Kai Leng (GS30462)	The identification of disrupted molecular networks involved in brain maturation and function in the Ts1Cje mouse model of Down syndrome.	PhD

(H) SCIENTIFIC PUBLICATIONS

ARTICLES IN CITATION-INDEXED JOURNALS

(* Equal contributor; PMID=PubMed ID)

- 1. M Azimzadeh, PS Cheah, <u>KH Ling</u>. <u>Brain Insulin Resistance in Down Syndrome: Involvement of PI3K-Akt/mTor Axis in Early-Onset of Alzheimer's Disease and Its Potential as A Therapeutic Target</u>. *Biochemical and Biophysical Research Communications*, 2024, 150713. <u>https://doi.org/10.1016/j.bbrc.2024.150713</u>
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- 3. CY Fish-Low, LTL Than, <u>KH Ling</u>, Z Sekawi. (2024) <u>The Potential of Eight Plasma Proteins as Biomarkers</u> <u>in Redefining Leptospirosis Diagnosis</u>. *Journal of Proteome Research*, 23(9): 4027-4042. <u>https://doi.org/10.1021/acs.jproteome.4c00376</u>
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- 141. Mansor NI, Ntimi CM, Ling K, Rosli R, Adam A, Abdul-Aziz NM and Nordin N (2016). Unattainable in vitro neurodegenerative model using transgenic mouse embryonic stem cell line-derived neurons treated with amyloid beta peptides. Front. Cell. Neurosci. Conference Abstract: 14th Meeting of the Asian-Pacific Society for Neurochemistry. doi: 10.3389/conf.fncel.2016.36.00166
- 142. Yusof HH, Lee HC, Chau DM, Cheah PS and Ling KH (2016). Characterisation of gamma-secretase role in the neurogenic-gliogenic shift in Ts1Cje mouse model of Down syndrome. Front. Cell. Neurosci. Conference Abstract: 14th Meeting of the Asian-Pacific Society for Neurochemistry. doi: 10.3389/conf.fncel.2016.36.00161
- 143. Lim CL, Ramasamy R, Stanslas J, Ling KH and Cheah PS (2016). <u>Metabolic and functional</u> <u>characterization of adult skeletal muscle in Down syndrome mouse model (Ts1Cje): insight into the muscle</u> <u>weakness (hypotonia) seen in the human condition</u>. *Front. Cell. Neurosci. Conference Abstract: 14th* <u>Meeting of the Asian-Pacific Society for Neurochemistry</u>. doi: 10.3389/conf.fncel.2016.36.00193
- 144. Tan K, Lee H, Ling K, Scott H, Lai M, Vidyadaran S and Cheah P (2016). <u>Disrupted interferon-related</u> molecular networks and the over-expressed Ifnar1 in the brain of adult Ts1Cje mouse model of Down syndrome. Front. Cell. Neurosci. Conference Abstract: 14th Meeting of the Asian-Pacific Society for Neurochemistry. doi: 10.3389/conf.fncel.2016.36.00159

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- 146. H. Zakaria, N. Nik Jaafar, A. Shahrul, E. Tan, A. Mohd Nawi, N. Pakarulrazy, N. Abdul Murad, <u>K. Ling</u>. <u>EPA-1258 – Diagnosable impulse control behaviours in patients with parkinson's disease</u>. *European Psychiatry*, 2014; 29(Suppl. 1):1. doi:10.1016/S0924-9338(14)78495-0 (IF=3.210)
- 147. JW Leong, <u>KH Ling</u>, PS Cheah. <u>Spatiotemporal expression profiling and molecular characterisation of miR-344b and miR-344c in the developing mouse brain</u>. *Journal of Neurochemistry*, 2014; 130(Suppl. S1): 51. Doi: 10.1111/jnc.12778 (PMID: 25040632) (IF=4.244).
- 148. <u>KH Ling</u>, HC Lee, PJ Brautigan, S Moore, R Fraser, PS Cheah, JM Raison, M Babic, YK Lee, T Daish, DM Mattiske, JR Mann, DL Adelson, PQ Thomas, CN Hahn, HS Scott. <u>Deciphering the secret role of Sox4 gene</u> <u>locus during mouse cerebral corticogenesis</u>. *Journal of Neurochemistry*, 2014; 130(Suppl. S1): 8. Doi: 10.1111/jnc.12775 (PMID: 25040632) (IF=4.244)
- 149. WH Siew, PS Cheah, S Abdullah, <u>KH Ling</u>. In utero analysis of miR-3099 role in the development and <u>function of the mouse brain</u>. Journal of Neurochemistry, 2014; 130(Suppl. S1): 50-51. Doi: 10.1111/jnc.12778 (PMID: 25040632) (IF=4.244)
- 150. K-L Tan, HC Lee, <u>K-H Ling</u>, CA Hewitt, HS Scott, MI Lai, V Sharmili, PS Cheah. <u>Overexpressed interferon</u> <u>alpha or beta receptors in the brain of adult Ts1Cje mouse model of Down syndrome</u>. *Journal of Neurochemistry*, 2014; 130(Suppl. S1): 59-60. Doi: 10.1111/jnc.12778 (PMID: 25040632) (IF=4.244)
- 151. <u>Ling KH</u>, Rosli R, Shamsudin MN, Mohamed R, Wan KL. High-throughput sequencing and analysis of chromosome one of *Eimeria tenella*. In proceeding of the 4th Annual Seminar for National Science Fellowship, Penang from 20th 21st December 2004, p156-161.

PAPER PRESENTED AS AN INVITED SPEAKER

(Date, Paper, Conference/Meeting, Venue, Participation)

- 29-30th September 2023
 <u>Ling KH</u>. *Funding opportunities by APSN and ISN*. 31st Malaysian Society of Neurosciences Annual Scientific Meeting, Kuching, Sarawak. [Invited Speaker]
- 2. 8-11th August 2023

Ling KH. <u>REST-JAK-STAT in the neurogenic-to-gliogenic shift in Down syndrome</u>. International Society of Neurochemistry (ISN) and the European Society of Neurochemistry (ESN) 2023 Meeting, Porto, Portugal. [Invited Speaker]

- 19-21th June 2023
 <u>Ling KH</u>. <u>REST-JAK-STAT in the neurogenic-to-gliogenic shift in Down syndrome</u>. Asian Pacific Society of Neurochemistry (APSN) 2023 Meeting, Marina Bay Sands, Singapore. [Session Chair and Invited Speaker]
- 8th June 2023
 Ling KH. Early Neuromodulation to Improve Learning and Memory: A Possible Treatment for Down Syndrome. UNIMAS Neuroscience Symposium, online symposium (via zoom). [Invited Speaker]
- 5. 20-21th March 2023

<u>Ling KH</u>. <u>REST-JAK-STAT signalling in the neurogenic-to-gliogenic shift in Down syndrome brain</u>. 1st International Conference on Biomedical Science, Dow University of Health Sciences, OJHA CAMPUS, Karachi, Pakistan. [Keynote Speaker]

6. 13th December 2022

Ling KH. <u>REST-less in Alzheimer's Disease models</u>. Congress on Neurogenetics and Stem Cells with the Medical Genetics Department, Anatomy Department and Children's Hospital and Royan Institute, Tehran, Iran (via zoom). [Invited Speaker]

7. 7-8th December 2022

Ling KH. Hands-on workshop on Neurogenetics, Neuroinformatics and Image Analysis supported by Lompatan Kreatif Innovation Programme on Neuroscience and Medical Animal Laboratory: The Development for Brain Research Centre. Organised by Universitas Sebelas Maret, Solo, Indonesia. [Keynote Speaker]

8. 5th November 2022

Ling KH & PS Cheah. <u>Targeting REST and JAK-STAT pathway in reverting neurogenic-to-gliogenic shift</u> and learning disabilities in Down syndrome. International Conference on Role of Pharmaceutical Sciences in Transformaton & Survival in Post-Pandemic Era held in Dr. APJ Abdul Kalam Technical University, Lucknow, Uttar Pradesh, India. [Keynote Speaker] 9. 3rd November 2022

Ling KH. <u>REST-less in Alzheimer's disease models</u>. School of Life Sciences, University of Hyderabad, Hyderabad, India. [Invited Lecture]

10. 14th October 2022

Ling KH. <u>Techniques and study model in Neuroscience Research</u>. Online Lecture Series on Neuroscience in Collaboration between Faculty of Medicine, Universitas Sebelas Maret and Faculty of Medicine Universiti Putra Malaysia (via zoom). [Invited Lecture]

11. 30th September-3rd October 2022

Ling KH & PS Cheah. <u>Repurposing RUXOLITINIB to improve learning & memory (in Down syndrome)</u>. 30th Annual Scientific Meeting of Malaysian Society of Neurosciences, held at Royale Chulan Hotel, Kuala Lumpur. [Invited Speaker]

12. 29th September 2022

Ling KH. The genetic and hereditary factors in the development of the nervous system related developmental neurological disorder. Online Lecture Series on Neuroscience in Collaboration between Faculty of Medicine, Universitas Sebelas Maret and Faculty of Medicine Universiti Putra Malaysia (via zoom). [Invited Lecture]

13. 27-28th August 2022

Ling KH. *Transient ruxolitinib therapy to improve learning and memory in rodents*. International Conference on Biomedical and Pharmaceutical Sciences, organized by World Forum for Young Scientists in association with INPST, PRISAL and Boston Biolife, held on 27th -28th August 2022 via Microsoft Teams. [Keynote Speaker]

14. 12th August 2022

Ling KH & PS Cheah. <u>Targetting REST and JAK-STAT pathway in reverting neurogenic-to-gliogenic shift</u> and learning disabilities in Down syndrome. 9th Annual Meeting of the Mongolian Neuroscience Society at Mongolian Academy of Sciences, Ulaanbaatar, Mongolia. [Plenary Lecture]

15. 8th August 2022

Ling KH. <u>REST-less in Alzheimer's disease models</u>. IBRO-APRC Ulaanbaatar Associate School on Brain-Related Disorders, Ulaanbaatar, Mongolia. [Plenary Lecture]

16. 30-31st March 2022

Ling KH. <u>Neurodevelopmental aberrations in hiPSC-derived Alzheimer's disease models</u>. 8th Malaysian Tissue Engineering and Regenerative Medicine Scientific Meeting (MTERMS) 2022 (via zoom). [Invited Speaker]

17. 27th September-1st October 2021

Ling KH. <u>Cerebral organoids as a tool in neuroscience research</u>. IBRO-APRC Associate School of Neuroscience on "Advances in Neurodegenerative Disorders and Therapeutics" organised by Amity Institute of Neuropsychology and Neurosciences (AINN), Amity University Uttar Pradesh (AUUP), Noida, India (via zoom). [Plenary Speaker]

18. 20-24th September 2021

Ling KH. <u>REST-less in Alzheimer's disease models</u>. IBRO-APRC Associate School on Neuromics: The Yin-Yang Aspect in Translational Neuroscience organised by Universiti Kebangsaan Malaysia, Kuala Lumpur (via zoom). [Invited Speaker]

19. 21-25th August 2021

Ling KH. "REST-less" in sporadic Alzheimer's disease model derived from APOE4 human induced pluripotent stem cells (hiPSCs. IBRO-APRC Georgian Associate School of Neuroscience organised by International Center for Neuroscience Research, Georgia (via zoom). [Keynote Speaker]

20. 13-14th August 2021

Ling KH. <u>Repurposing ruxolitinib to improve learning and memory: A proof-of-concept study</u>. Multidisciplinary Brain Science 2021 organised by Mongolian Neuroscience Society, Ulaanbaatar, Mongolia (via zoom). [Invited Speaker]

- 9-12th August 2021
 <u>Ling KH</u>. <u>Development of the Central Nervous System</u>. IBRO-APRC Ulaanbaatar Associate School, organised by Mongolian Neuroscience Society, Ulaanbaatar, Mongolia (via zoom). [Invited Lecture]
- 22. 2-6th August 2021

Ling KH. A glimpse into my daily research on cerebral organoids as a Research Fellow in Harvard Medical School. IBRO-APRC Associate School of Neuroscience 2021: Gut Microbiota and the Gut-Brain Connection – There is Science in Gut Feeling After All organised by Universiti Teknologi MARA, Malaysia (via zoom). [Invited Speaker] 23. 29th June 2021

Ling KH. <u>Ruxolitinib treatment to improve learning and memory</u>. E-Seminar "FMHS UPM's Silver Jubilee: Education and Research Excellence in Diversity organised by Faculty of Medicine and Health Sciences, Universiti Putra Malaysia (via zoom). [Invited Speaker]

24. 20th November 2020

Ling KH. <u>REST-less in Alzheimer's disease models</u>. PGM (Genetics Society of Malaysia) Seminar 2020 Kuala Lumpur, Malaysia (via zoom). [Invited Speaker]

25. 14-20th December 2015

Ling KH. DRDs and GRIN2B polymorphisms and their association with the development of impulse control behaviour among Malaysian Parkinson's disease patients. IBRO/APRC Colombo School "From Bench to Bedside: Translational Neuroscience Research in Healthy Brain Aging and Neurological Disorders" Colombo, Sri Lanka. [Invited Speaker]

26. 8-9th October 2015

Ling KH. <u>Understanding neurodevelopment of Ts1Cje mouse model for Down syndrome</u>. ASEAN Congress on Medical Biotechnology and Molecular Biosciences. Bangkok, Thailand. [Invited Speaker]

27. 12-13th August 2015

Ling KH. <u>*Ts1Cje mouse model for Down syndrome research.*</u> 11th Malaysia Congress of Genetics, Perdana University, Serdang, Selangor, Malaysia. [Invited Speaker]

28. 22-26th August 2014

<u>KH Ling</u>, HC Lee, PJ Brautigan, S Moore, R Fraser, PS Cheah, JM Raison, M Babic, YK Lee, T Daish, DM Mattiske, JR Mann, DL Adelson, PQ Thomas, CN Hahn, HS Scott. <u>Deciphering the secret role of Sox4 gene</u> <u>locus during mouse cerebral corticogenesis.</u> 12th Biennial Meeting of Asian Pacific Society of Neurochemistry, Kaoshiung, Taiwan. [Invited Speaker]

29. 18th March 2014

Ling KH. Non-coding RNA. PGM Seminar 2014 "Towards Excellence in Genetics", Faculty of Medicine and Health Sciences, Universiti Putra Malaysia. [Invited Speaker]

30. 3-5th December 2013

Ling KH & Cheah PS. *Brainomics of the Ts1Cje Down syndrome mouse model*. 10th Malaysian Genetic Congress, Palm Garden Putrajaya Resort, Putrajaya. [Invited Speaker]

31. 9-10th January 2013

Ling KH. Elucidating the role for a novel microRNA – mir3099. 2nd Annual IMMB Postgraduate Colloquium, Universiti Teknologi Mara Malaysia (UiTM), Sungai Buloh, Malaysia. [Invited Speaker]

32. 23th November 2012

Ling KH. <u>What do we need to know about microRNAs?</u> International Brain Research Organisation (IBRO) School, Brain Research Institute Monash University Sunway (BRIMS), Malaysia. [Invited Speaker]

33. 23th November 2012

Ling KH. Identification and characterization of novel miRNAs from the developing mouse brain. International Brain Research Organisation (IBRO) School, Brain Research Institute Monash University Sunway (BRIMS), Malaysia. [Invited Speaker]

34. 23-25th July 2012

Ling KH. From global transcriptome profiling to the discovery of a novel long noncoding RNA-mediated regulatory mechanism in the mouse brain. International Neuroscience Symposium 2012, Universiti Malaysia Sabah, Kota Kinabalu, Sabah, Malaysia. [Plenary Speaker]

35. 6th April 2012

Ling KH & Cheah PS. *Functional brainomics approaches to understanding the development and function of* <u>the mammalian brain</u>. TESMA Seminar Series April 2012 jointly organized by the Tissue Engineering & Regenerative Medicine Society of Malaysia (TESMA) and Bioprocess & Biomolecular Engineering Group (UKM), Faculty of Engineering, Universiti Kebangsaan Malaysia. *[Invited Speaker]*

- 12-13th December 2011
 Ling KH. Discovery and characterization of a novel microRNA in the developing mouse brain, miR-3099.
 2011 Neuroscience Symposium, Monash University Sunway, Malaysia. [Invited Speaker]
- 37. 22nd October 2010

Ling KH. The novel role of noncoding RNAs during brain development. 2010 Neuroscience Seminar organised by the Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, Serdang, Selangor, Malaysia. [Invited Speaker]

38. 28th May 2010

Ling KH. Sox4 sense and novel natural antisense transcripts form dsRNA to produce a novel small interfering RNA during brain development. RNA Interest Group Seminar Series, South Australia RNA Interest Group, Level 5 Lecture Room, Molecular and Life Sciences Building, University of Adelaide, Adelaide, Australia. [Invited Speaker]

39. 5th July 2007

KH Ling. High-throughput validation of mouse brain expression data using Roche Universal Probe Library (UPL) and LC480 real time PCR instrument. Mutation Interest Group Meeting, Genomic Disorder Research Centre Seminar Series, Melbourne University Campus, Alan Gilbert Building. VICTORIA 3053, Australia. [Invited Speaker]

40. 29th April 2005

<u>KH Ling</u>. <u>Sequencing, assembly and analysis of chromosome one of Eimeria tenella</u>. Sequencing Workshop, National Genome Institute, Malaysia, MTDC-UKM Smart Centre, Universiti Kebangsaan Malaysia, 43600 UKM Bangi, Selangor. [Invited Speaker]

41. 4-5th April 2005

<u>KH Ling</u>. <u>Sequencing and analysis of chromosome one of Eimeria tenella</u>. 15th Malaysian Society for Molecular Biology and Biotechnology (MSMBB), Berjaya Times Square Hotel, Kuala Lumpur. [Invited Speaker]

PAPER PRESENTED VIA ORAL

(Date, Paper, Conference/Meeting, Venue)

42. 9-13th May 2011

Ling KH. The secret role of novel long noncoding RNAs at Sox4 gene locus during brain development. International Symposium and Workshop on Functional Genomics and Structural Biology 2011, Palm Garden Hotel, IOI Resort Selangor, Malaysia.

43. 13-14th October 2010

Ling KH. Deciphering the secret role of long non-coding RNAs during brain development. 2010 Neuroscience Symposium, Sunway Resort Hotel & Spa, Kuala Lumpur, Malaysia.

44. 24-25th February 2005

<u>KH Ling</u>, KL Wan, NS Mariana, M Rahmah and R Rozita. Assembly, finishing and sequence analysis of chromosome one of Eimeria tenella. 3rd Eimeria Genome Consortium Meeting, Wellcome Trust Sanger Genome Institute, Hinxton, United Kingdom.

45. 20th – 21st December 2004

Ling KH, Rosli R, Shamsudin MN, Mohamed R, Wan KL. High-throughput sequencing and analysis of chromosome one of *Eimeria tenella*. The 4th Annual Seminar for National Science Fellowship 2004, jointly organized by the Ministry of Science, Technology and Innovation (MOSTI) and Universiti Sains Malaysia at Vistana Hotel, Pulau Pinang, Malaysia. *[Best Oral Presentation Award in Biotechnology Section]*

46. 8-10th January 2004

<u>KH Ling</u>, KL Wan, NS Mariana, M Rahmah and R Rozita. Sequencing analysis of chromosome one of Eimeria tenella. 2nd Annual Microbial Genomics Top-Down Projects Meeting, Pan Pacific Hotel, Pangkor Island.

47. 12th – 25th May 2003

<u>KH Ling</u>, KL Wan, NS Mariana and R Rosli. High-throughput sequencing of chromosome one of Eimeria tenella. Eimeria Genome Consortium Meeting at Institute of Animal Health, Compton, United Kingdom.

48. 22nd -24th May 2002

<u>KH Ling</u>, R Rosli, G Duraisamy and Mohd. Nasir MT. The prevalence of MTHFR677C-T missense mutation, total homocysteine levels and associated risk factors in Malay subjects. Young Researcher awards for Molecular Biology Competition, organized by Malaysian Society For Molecular Biology and Biotechnology (MSMBB) at Hyatt Regency Saujana Subang Selangor.

PAPER PRESENTED VIA POSTER

(Date, Paper, Conference/Meeting, Venue, Participation)

49. 9-13th September 2023

PS Cheah & Ling KH. Transient prenatal treatment with ruxolitinib improves spatial learning and long-term memory retention in adult mice – a potential treatment for Down syndrome. 11th IBRO 2023 World Congress of Neuroscience, Granada, Spain.

50. 13-17th October 2012

Ling KH, Brautigan PJ, Moore S, Fraser S, Cheah PS, Raison JM, Stankovic M, Lee YK, Daish T, Mattiske DM, Mann JR, Adelson DL, Thomas PQ, Hahn CN and Scott HS. Molecular and functional characterization of a novel long noncoding RNA at Sox4 gene locus in the developing mouse brain. SfN Neuroscience 2012, New Orleans, USA. (Presenter)

51. 3-4th June 2012

Ling KH, Brautigan PJ, Moore S, Fraser S, Cheah PS, Raison JM, Stankovic M, Lee YK, Daish T, Mattiske DM, Mann JR, Adelson DL, Thomas PQ, Hahn CN and Scott HS. Characterisation of molecular roles of novel long non-coding RNAs at *Sox4* gene locus during mouse brain development. 4th Malaysian Tissue Engineering & Regenerative Medicine Meeting (MTERMS) 2012 at Langkawi, Malaysia. (Presenter – Best Poster)

52. 14-19th January 2010

<u>KH Ling</u>, CN Hahn, J Mann, D Adelson, PQ Thomas and HS Scott. M1181: A novel miRNA involved in development of the mouse embryo. Keystone Symposia Conference: RNA Silencing: Mechanism, Biology and Application at Colorado, United States of America. (Presenter)

53. 15-17th November 2009

<u>KH Ling</u>, CA Hewitt, CN Hahn, PS Cheah, K Banerjee, T Thomas, PQ Thomas and HS Scott. Functional analysis of novel antisense transcripts at Sox4 gene locus during mouse cerebral corticogenesis. The Australian Society for Medical Research (ASMR) National Scientific Conference, Neurogenetics on the Apple Isle, Hotel Grand Chancellor, Hobart, Tasmania, Australia. (Presenter)

54. 1st September 2009

<u>KH Ling</u>, CN Hahn, J Raison, J Rayner, T Daish, J Mann, P Thomas, D Adelson and HS Scott. Discovery of a novel microRNA that may involve in early development of the mouse brain, neuronal differentiation and embryonic stem cell. Faculty of Health Sciences 2009 Postgraduate Research Expo, National Wine Centre, Adelaide, South Australia, Australia. (Presenter)

55. 2nd June 2009

<u>KH Ling</u>, CN Hahn, J Raison, J Rayner, T Daish, J Mann, P Thomas, D Adelson and HS Scott. Discovery of novel miRNAs in the developing mouse brain by in depth sequencing of small RNAs. The Australian Society for Medical Research, SA 2009 Scientific Meeting, Adelaide Convention Centre, Adelaide, South Australia, Australia. (Presenter)

56. 22nd July 2008

KH Ling, CA Hewitt, T Beissbarth, L Hyde, GK Smyth, SS Tan, T Thomas, CN Hahn, PQ Thomas and HS Scott. Global expression analysis revealed spatio-temporal regulation and genomic clustering of Sox4 sense-antisense transcripts during cerebral corticogenesis in the mouse. Faculty of Health Sciences 2008 Postgraduate Research Expo, National Wine Centre, Adelaide, South Australia, Australia. (Presenter)

57. 17-21st February 2008

Ling KH, Hewitt CA, Beissbarth T, Hyde L, King S, Collins C, Voss AK, Tan SS, Thomas T and Scott HS. Global expression analysis of the developing mouse cerebral cortex reveals spatio-temporal regulation of sense and antisense expressions. 29th Lorne Genome Conference, Erskine Mantra Resort, Lorne, Victoria, Australia. (Presenter)

58. 12-17th July 2007

Ling KH, Hewitt CA, Beissbarth T, Hyde L, King S, Thomas T, Collins C, Voss AK, Tan SS and Scott HS. Global expression analysis and identification of novel regulatory networks during cortical development in mouse. The International Brain Research Organization, IBRO World Congress of Neuroscience, Melbourne Exhibition and convention Centre, Melbourne, Victoria, Australia. (Presenter)

59. 3-5th December 2003

KH Ling, KL Wan, NS Mariana, M Rahmah and R Rozita. GAP4: Multiple Integrated Assemblies – Toward the generation of a complete sequence of chromosome one of Eimeria tenella. 8th Biological Sciences Graduate Congress, National University of Singapore, Singapore. (Presenter)

60. 8-10th September 2003

KH Ling, KL Wan, NS Mariana, M Rahmah and R Rozita. The assembly and generation of a draft sequence for chromosome one of Eimeria tenella. International Conference on Bioinformatics 2003, Penang, Malaysia. (Presenter)

61. 12th August 2003

KH Ling, YH Say, G Duraisamy, S Isaac and R Rosli. Detection of the angiotensinogen gene M235T variant and its association with essential hypertension and plasma rennin activity in Malaysian subjects. 28th Annual Conference of the Malaysian Society for Biochemistry and Molecular Biology at JW Marriot Hotel, Putrajaya, West Malaysia. (Presenter – Best Poster Award)

62. 8 – 10th June 2003

R Rosli, <u>KH Ling</u>, KL Wan, NS Mariana, M Rahmah, S White, F Tomley and MW Shirley. High-throughput sequencing of chromosome one of Eimeria tenella for gene discoveries. Universiti Putra Malaysia 2003 R&D Exhibition, PKSSAAS Hall, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor, Malaysia. (Presenter – Silver Medal Award)

(J) ADMINISTRATIVE / APPOINTED POSITIONS IN UPM

APPOINTED PORTFOLIOS				
Position	Role / Descriptions	Date (Duration)	Status	
Head of	Department of Biomedical Sciences, Faculty of	1.3.2024 –	Oranainan	
Department	Medicine and Health Sciences, UPM	present	Ongoing	
Deputy	Malaysian Research Institute on Ageing (MyAgeing [™]),	1.6.2023 –	Completed	
Director	UPM	14.2.2024	Completed	
	Medical Genetics Unit, Department of Biomedical	1 6 2020 -		
Head of Unit	Sciences, Faculty of Medicine and Health Sciences,	30 5 2023	Completed	
	UPM	00.0.2020		
Leader	Genetics & Regenerative Medicine Niche Area under	2.8.2021 –	Ongoing	
20000	the Department of Biomedical Sciences, UPM	present	ongoing	
Coordinator	Medical Genetics Unit Webpage at	1.7.2021 –	Ongoing	
	htps://mgu.upm.edu.my	present	5 5	
	High-Impact Clinical Research Proposal Workshop	22.3.2022	Completed	
Facilitator	LIDM	27.9.2022	Completed	
- ·	Pemeriksa Kertas Jawapan Peperiksaan Akhir	0004		
Examiner	Semester Tanun 1 (Dalam Talian), Program Doktor	2021	Completed	
	Perubatan Semester Pertama 2020/2021			
0	Coordinating the HGD4200 course (Medical			
Course	Neuroscience) for undergraduate/postgraduate	2015-2016	Completed	
Coordinator	students		•	
		8.9.2014 -		
Module	Coordinating the SPP3241 module for MD Programme	7.9.2016	Completed	
Coordinator	Year 1, Package 2	(2 years)		
	Coordinating the SPS5903/6903 Seminar Proposal	Semester 2		
Coordinator	course at Department of Obstetrics and Gynaecology	(2013/14)	Completed	
	level.	(1 semester)		
Research	Coordinating departmental research information and	20 5 2013 -		
Coordinator	progression for Department of Obstetrics and	30 09 2015	Completed	
	Gynaecology.	00.00.2010		
O a sudia stan	ITAV committee for Department of Obstetrics and	20.5.2013		
Coordinator	Gynaecology.		Completed	
Technical	MS ISO/IEC 17025 for Faculty of Medicine and Health	16 7 2015 -	Completed	
Manager	Sciences.	(2 vears)	Completed	
		17 7 2013 -		
Approved	MS ISO/IEC 17025 for Faculty of Medicine and Health	16.7.2015	Completed	
Signatory	Sciences.	(2 years)		
	Constin Madining Descents Crown, Constin and	1.1.2013		
Member/Head	Begenerative Medicine Research Group, Genetic and	(until further	Completed	
	Regenerative medicine Research Center, OFM	notice)		
Laboratory	Overseeing the overall daily progression of the Medical	1.1.2012 –		
Coordinator	Genetics Laboratory	31.12.2013	Completed	
		(2 years)		
Research	Coordinating departmental research information and	10.10.2011 –	•	
Coordinator	progression.	9.9.2013	Completed	
		(2 years)		
Desition		Deta (Duration)	Ctatura	
Position	Role / Descriptions	Date (Duration)	Status	
Member	Department of Biomedical Sciences Alumni Committee	1.3.2021 –	Ongoing	
		4 9 2021		
Member	Faculty of Medicine and Health Sciences, UPM,	4.0.2021 -	Ongoing	
Member	Strategic Planning 2021-2025 Task Force	(2 years)	Ongoing	
		24 5 2021 -		
Member	Department of Biomedical Sciences, UPM, Master	23.5.2023	Ongoing	
	Sains Kerja Kursus (MSKK) committee	(2 vears)	engenig	
	Research Committee of the Faculty of Medicine and	()	0 ·	
wember	Health Sciences, UPM.	2021-present	Ungoing	
Member	Universiti Putra Malaysa Grant Evaluation Committee	2021 – 2022	Ongoing	
	National Science Camp 2022 jointly organised by the		_ _¥	
Member	Department of Biomedical Sciences, Faculty of	26 11 2022	Completed	
Monibol	Medicine and Health Sciences, UPM, SK KLIA and SK	20.11.2022	Completed	
	Cyberjaya			

Member	Professor Cheah Yoke Kqueen's Inaugural Ceremony	12.10 –	Completed
Member	Organising Committee	11.11.2022	Completed
Member	Minggu Perkasa Putra committee at FMHS Level for Session 2022/2023	3 – 7.10.2022	Completed
Member	Minggu Perkasa Putra, Jabatan Sains Bioperubatan Semester Pertama Sesi 2021/2022	6.10 - 13.10.2021	Completed
Member	Seminar Antarabangsa Sempena Sambutan Ulang Tahun Ke-25 (Jubli Perak) Penubuhan Fakulti Perubatan Dan Sains Kesihatan	4.2 - 30.6.2021	Completed
Member	ICT committee, Faculty of Medicine and Health Sciences, UPM	1.2.2013 – 31.1.2015 (2 years)	Completed
Co-Chair	Interdisciplinary Neuroscience Meeting (INM) 2014, Faculty of Medicine and Health Sciences, UPM	12.11.2014 (1 day)	Completed
Leader	Poster Symposium, Competition and Programme Book Committee, FMHS Research Week 2014	25.6.2014 – 26.6.2014 (2 days)	Completed
Member	ICT committee, Faculty of Medicine and Health Sciences, UPM	29.11.2011 – 28.10.2013 (2 years)	Completed
Member	Organising committee for Women's Health Seminar, Faculty of Medicine & Health Sciences, UPM	15.12.2012	Completed
Member	Organising committee for Medical Metabolomic Workshop 2011	17.11.2011	Completed
Member	Organising committee for Medical Metabolomic Symposium 2011	16.11.2011	Completed
Executive Chairperson	Organising committee for 2 nd Annual Neuroscience Seminar 2011	23.6.2011	Completed
Member	Faculty exhibition & promotion committee for 2011 Postgraduate Expo, UPM.	21.3.2011	Completed
Chairperson	Organising committee for Departmental Family Day.	4.12.2010	Completed
Chairperson	Organising committee for Neuroscience Seminar 2010.	22.10.2010	Completed
Member	Exhibition committee for Internasional Conference on 'Frontiers in Molecular Medicine' which were held from 2 nd – 3 rd August 2006 in conjunction with the 10 th anniversary of the establishment of Faculty of Medicine and Health Sciences, UPM.	2005-2006 (2 years)	Completed
Member	Committee for Faculty Research Directory.	2005-2006 (2 years)	Completed
Member	Organising committee for Invention, Research & Innovation Exhibition, UPM (Faculty level)	2005	Completed

(K) TEACHING

UNIVERSITI PUTRA MALAYSIA

Semester (Session)	Course	Code	Programme	Credit Hours	No. of student	Teaching assessment
1 (2010/11)	Medical Genetics	HGD5502	Postaraduate	3+0	20	Ν/Δ
1 (2010/11)	Gene Expression	SPD32/1	B Sc. (Hons) M D	1	123	
1 (2010/11)	Special Topics in	011 0241	D.00. (110113) WI.D.	I	120	
2 (2010/11)	Human Genetics	HGD5509	Postgraduate	3+0	11	N/A
1 (2011/12)	Medical Genetics	HGD5502	Postgraduate	3+0	25	N/A
1 (2011/12)	Gene Expression	SPP3241	B.Sc. (Hons) M.D.	1	134	N/A
1 (2011/12)	Human Genetics	SPP3251	B.Sc. (Hons) M.D.	1.21	134	4.55 / 5.00
2 (2011/12)	Special Topics in Human Genetics	HGD5509	Postgraduate	3+0	13	4.82 / 5.00
2 (2011/12)	Problem Based Learning	SPP3591	B.Sc (Hons) M.D.	0.86	116	N/A
1 (2012/13)	Medical Genetics	HGD5502	Postgraduate	3+0	13	N/A
1 (2012/13)	Gene Expression	SPP3241	B.Sc. (Hons) M.D.	1	140	4.59 / 5.00
1 (2012/13)	Human Genetics	SPP3251	B.Sc. (Hons) M.D.	1.21	140	4.64 / 5.00
2 (2012/13)	Special Topics in Human Genetics	HGD5509	Postgraduate	3+0	8	4.76 / 5.00
1 (2013/14)	Medical Genetics	HGD5502	Postgraduate	3+0	19	4.49 / 5.00
1 (2013/14)	Gene Expression	SPP3241	B.Sc. (Hons) M.D.	1	116	4.42 / 5.00
1 (2013/14)	Human Genetics	SPP3251	B.Sc. (Hons) M.D.	1.21	116	4.50 / 5.00
1 (2014/15)	Medical Genetics	HGD5502	Postgraduate	3+0	11	N/A
1 (2014/15)	Gene Expression	SPP3241	B.Sc. (Hons) M.D.	1	102	4.80 / 5.00
1 (2014/15)	Human Genetics	SPP3251	B.Sc. (Hons) M.D.	1.21	102	4.80 / 5.00
2 (2014/15)	Special Topics in Human Genetics	HGD5509	Postgraduate	3+0	7	N/A
2 (2014/15)	Medical Neuroscience	HGD4200	Undergraduate + Postgraduate	2+1	9	5.00 / 5.00
1 (2015/16)	Gene Expression	SPP3241	B.Sc. (Hons) M.D.	1	93	4.91 / 5.00
1 (2015/16)	Human Genetics	SPP3251	B.Sc. (Hons) M.D.	1.21	93	4.86 / 5.00
2 (2015/16)	Medical Neuroscience	HGD4200	Undergraduate + Postgraduate	2+1	9	3.95 / 5.00
1 (2016/17)	Gene Expression	SPP3241	B.Sc. (Hons) M.D.	1	103	4.63 / 5.00
1 (2016/17)	Human Genetics	SPP3251	B.Sc. (Hons) M.D.	1.21	103	4.65 / 5.00
1 (2020/21)	Applied Molecular Biology	SBP3503	B.Sc. (Hons) Biomedical Science	2+1	2	5.00 / 5.00
1 (2020/21)	Regenerative Medicine and Therapy	HGD5511	Postgraduate	3+0	8	4.99 / 5.00
1 (2020/21)	Medical Genetics	HGD5502	Postgraduate	3+0	3	4.98 / 5.00
2 (2020/21)	Special Topics in Human Genetics	HGD5509	Postgraduate	3+0	5	4.85 / 5.00
2 (2020/21)	Regenerative Medicine and Therapy	HGD5511	Postgraduate	3+0	3	4.98 / 5.00
2 (2020/21)	Medical Neuroscience	HGD5510	Postgraduate	3+0	7	4.93 / 5.00
1 (2021/22)	Human Biochemistry and Genetics	MDR3002	B.Sc. (Hons) M.D.	2.21	122	4.89 / 5.00
1 (2021/22)	Advanced Cancer Genetics	HGD5512	Postgraduate	3+0	6	5.00 / 5.00
1 (2021/22)	Stem Cells and Regenerative Medicine	SBP4604	B.Sc. (Hons) Biomedical Science	2+1	29	4.80 / 5.00
1 (2021/22)	Medical Neuroscience	HGD5510	Postgraduate	3+0	5	5.00 / 5.00
2 (2021/22)	Regenerative Medicine and Therapy	HGD5511	Postgraduate	3+0	10	4.93 / 5.00
2 (2021/22)	Medical Neuroscience	HGD4200	Postgraduate	2+1	3	5.00 / 5.00
2 (2021/22)	Human Genetic Disorders	HGD4100	Postgraduate	2+1	4	4.81 / 5.00

2 (2021/22)	Medical Neuroscience	SBP4602	B.Sc. (Hons) Biomedical Science	2+1	11	4.98 / 5.00
2 (2021/22)	Human Genetic Disorders	SBP4601	B.Sc. (Hons) Biomedical Science	2+1	24	4.92 / 5.00
1 (2022/23)	Human Biochemistry and Genetics	MDR3002	B.Sc. (Hons) M.D.	2.21	118	??? / 5.00
1 (2022/23)	Advanced Cancer Genetics	HGD5512	Postgraduate	3+0	7	??? / 5.00
1 (2022/23)	Stem Cells and Regenerative Medicine	SBP4604	B.Sc. (Hons) Biomedical Science	2+1	21	??? / 5.00
1 (2022/23)	Medical Neuroscience	HGD5510	Postgraduate	3+0	7	??? / 5.00
1 (2022/23)	Medical Genetics	HGD5502	Postgraduate	3+0	10	??? / 5.00

OTHER UNIVERSITIES

Semester (Session)	Course	Code	Programme / Institution	Credit Hours	No. of student	Date (Duration)
1 (2022/23)	Neuroscience	MIC4007	B.Sc. (Hons) / University Malaya	3+0	35	10.11.2022 (2 hours)
1 (2021/22)	Neuroscience	MIC4007	B.Sc. (Hons) / University Malaya	3+0	35	18.11.2021 (2 hours)
1 (2020/21)	Neuroscience	MIC4007	B.Sc. (Hons) / University Malaya	3+0	35	12.11.2020 (2 hours)
1 (2015/16)	Principle of Neuroscience	MBEB4105	B.Sc. (Hons) / University Malaya	3+0	35	18.9.2015 (1.5 hours)
1 (2014/15)	Current topics in Genetics and Molecular Biology	SHEN3174	B.Sc. (Hons) / University Malaya	3+0	30	11.11.2014 (1.5 hours)
1 (2014/15)	Principle of Neuroscience	MBEB4105	B.Sc. (Hons) / University Malaya	3+0	35	18.9.2014 (1.5 hours)
1 (2013/14)	Principle of Neuroscience	MBEB4105	B.Sc. (Hons) / University Malaya	3+0	35	23.9.2013 (1.5 hours)
2 (2011/12)	Current Topics in Biomedical Science	MTEB3303	B.Sc. (Hons) / University Malaya	3+0	35	23.4.2012 (1.5 hours)
2 (2010/11)	Current Topics in Biomedical Science	MTEB3303	B.Sc. (Hons) / Universiti Malaya	3+0	40	31.3.2011 (1.5 hours)

(L) MEMBER OF SOCIETY / PROFESSIONAL BODIES

Membership type / Position	Society	Date (Duration)
Associate Member	Malaysia National Professor Council	2022 – present
Ordinary Member	Tissue Engineering and Regenerative Medicine Society Malaysia (TESMA)	2022 – present
Assistant Treasurer	Malaysian Society of Neurosciences (MSN)	2022 – present
Co-Chair	Basic Neuroscience Chapter, Malaysian Society of Neurosciences (MSN)	2021 – present
Council Member	Asia Pacific Society for Neurochemistry (APSN)	2020 - 2024
Regular Member	Asia Pacific Society for Neurochemistry (APSN)	2016 – present
Life Member	Malaysian Society for Stem Cell Research and Therapy (MSCRT)	2016 – present
Regular Member	International Society of Neurochemistry (ISN)	2012 – present
Life Member	Malaysian Society of Neurosciences (MSN)	2007 – present
Member	International Brain Research Organisation (IBRO)	2007 – present
Life Member	Genetic Society of Malaysia (GSM)	2007 – present
Member	Young Scientists Network Malaysia (YSN-ASM)	2012 – 2021
Honorary Treasurer	Malaysian Society of Neurosciences (MSN)	2014 – 2016
Representative Member	Governing Council of the International Brain Research Organisation (IBRO)	2013 – 2019
Representative Member	Council of the Federation of Asian-Oceanian Neuroscience Societites (FAONS)	2013 – 2017
Vice President	Malaysian Society of Neurosciences (MSN)	2012 – 2014
Member	Society for Neurosciences, USA	2011 – 2012
Protem Chair	Basic Neuroscience Chapter, Malaysian Society of Neurosciences (MSN)	18.6.2011 – 11.06.2013
Auditor	NeuroMalaysia Society	Term 2011/2012 (1 year)
Member	NeuroMalaysia Society	2011 – 2014
Mombor	International Eimeria Genome Sequencing Consortium	2003 - 2006
INIGITIDEI	(http://www.iah.bbsrc.ac.uk/Eimeria/consortium.htm)	(3 years)

(M) EXTRA-CURRICULAR ACTIVITIES (OUTSIDE UPM)

Participation	Description	Date (Duration)
EAC Member	Department of Biological Sciences, School of Medical and Life Sciences, Sunway University	8.5.2023 – 7.5.2025 (2 years)
Treasurer	NeuroBRB 2023: Neuroscience Breach the Research Barrier symposium, Faculty of Medicine and Health Sciences, UPM	15.6 – 16.6.2023 (2 days)
Secretary	Program CSR Pra Akrab 2022 bersama Anak Yatim dan Asnaf, Rumah Bakti Bur ain, Bangi	22.10.2022
Reviewer	Absracts for 30 th Annual Scientific Meeting of the Malaysian Society of Neurosciences 2022 free paper and e-poster presentation	1-3.10.2022
Advisor	Organising Committee for Brain Awareness Campaign by Alzheimer's Disease Foundation Malaysia (ADFM)	13.11 – 21.11.2021 (1 week)
Co-Chair	Modelling Development and Disease Symposium during VIRTUAL 8 th MTERMS 2022	29.1 – 31.3.2022 (2 months)
Member	Scientific Programme Committee for MTERMS 2022	2021 – 2022 (2 years)
Expert Interviewee	BFM89.9 Brain Waves radio programme to discuss a topic on "Can Scientists Grow Brain on a Dish"	1.11.2021
Expert Panel	For the Re-classification of Malaysia Research and Development Classification System (MRDCS) 7 th Edition, Field of Research and Socio Economic Objective (SEO) – by Ministry of Science, Technology and Innovation	1-18.3.2021
Treasurer / Organising Committee Member	Asia Pacific Society of Neurochemistry (APSN 2016) meeting at Hotel Istana, Kuala Lumpur.	2015-2016 (2 years)
Organising Committee Member	Head of Website Committee – 14 th Meeting of Asian Pacific Societies for Neurochemistry 2016, Kuala Lumpur Malaysia.	2015 – 2016 (2 years)
Exhibitor	Penang International Science Fair 2015 at Penang International Sport Arena (PISA)	14.11.2015 – 15.11.2015 (1 day)
Session Chairperson	Symposium 4: Human Genetics - 11th Malaysia Congress of Genetics, Perdana University, Serdang, Selangor, Malaysia.	12.8.2015 – 13.8.2015 (2 day)
Organising Committee Member	Head of Website Committee – 11 th Malaysia Congress of Genetics, Perdana University, Serdang, Selangor, Malaysia.	12.8.2015 – 13.8.2015 (2 day)
Chief Judge	National Science Challenge – State Level for Putrajaya	8.7.2015 (1 day)
Session Chairperson	Molecular Genetics & Genomics of Neurological Disorders – 26 th Annual Meeting of Malaysian Society of Neurosciences, Weil Hotel, Ipoh, Malaysia.	5.6.2015 – 7.6.2015 (3 days)
Judge	Served as a judge for oral presenters during the 6 th Malaysian Symposium of Biomedical Science 2015, UTAR, Kampar, Perak.	16.5.2015 (1 day)
Scientist at School	Biology Instructor for Science Outreach Programme organised by YSN-ASM in ACS Methodist School, Ipoh, Perak.	7.3.2015 (1 day)
Exhibitor	Penang International Science Fair 2014 at Penang International Sport Arena (PISA)	15.9.2014 (1 day)
Coordinator	National Science Challenge – Semi Final 2014	11.8.2014 – 16.8.2014 (6 days)
Organising Committee Member	25 th Annual Scientific Meeting of Malaysian Society of Neurosciences, Berjaya Times Square Hotel, Kuala Lumpur.	20.6.2014 – 22.6.2014 (3 days)
Chief Judge	National Science Challenge – State Level for Labuan	14.5.2014 – 15.5.2014 (2 days)
Mentor	TIMMS – Sekolah Menengah Kebangsaan Khir Joharry dan Sekolah Menengah Kebangsaan Desa Serdang	19.7.2014 (1 day)
Scientist at School	Conducting DNA extraction from onion for Form 4 and Form 5 students at SERATAS, Taiping	11.4.2014 – 12.4.2014 (2 days)
Participant	Young Scientists Network-Academy of Sciences, Malaysia (YSN-ASM) Strategic Workshop	11.12.2013 – 14.12.2013 (3 days)
Session Judge	10 th Malaysian Genetics Congress 2013 at Palm Garden Hotel, Putrajaya.	5.12.2013 (1 day)
Member	Selection committee for Malaysian Young Scientists to participate in the 64 th Meeting of Nobel Prize Winners	25.10.2013 & 2.11.2013 (2 days)

	with Young Scientists (dedicated to Physiology or	
	National Science Challenge State Level (Sabah) –	26.6.2013
Chief Judge	organised by Academy of Sciences Malaysia	(1 day)
Session Chair / Invited Faculty	24 th Annual Scientific Meeting of Malaysian Society of Neurosciences	14.6.2013 – 16.6.2013 (3 days)
Invited Lunch	Given a talk on "A Nobel trip to Lindau, Germany – Once	0.1.2012 10.1.2012
Symposium	in a lifetime opportunity" during the 2 nd Annual IMMB	9.1.2013 - 10.1.2013 (2 days)
Speaker	Posgraduate Colloquium	
Participant	Young Scientists Network-Academy of Sciences, Malaysia (YSN-ASM) Inaugural Colloquium	12.12.2012 – 15.12.2012 (3 days)
	Given a keynote lecture on "Why do I want to be a	
Invited Keynote	scientist?" followed by "A Nobel trip to Lindau, Germany –	1.12.2012
Speaker	Once in a litetime opportunity during the Penang young	(1 day)
·	Penang Young Laureates Programme 2012 Science	1 12 2012
Judge	Competition.	(1 day)
	Given a lecture on "A Nobel trip to Lindau, Germany –	
Invited Speaker	Once in a lifetime opportunity" during the Mentoring	27.9.2012
Invited Opeaker	Young Researchers session of the 6 th National	(3 hours)
	Conference for Clinical Research 2012.	0.0.0010 0.0.0010
and co-organiser	National Science Challenge Semi Final 2012, Universiti Sains Malaysia, Penang	2.9.2012 - 8.9.2012
and co-organiser	Participate in developing the debate kits for "I'm a	(1 uays)
Workshop	scientist get me out of here" project jointly organised by	30.6.2012
participant	Academy of Sciences Malaysia and Ministry of	(1 day)
· ·	Education.	,
	Given a lecture on "Learning Outcomes and Lindau	
	Experience" during the Media Announcement of 2012	14.6.2012
Invited Speaker	Young Scientists delegation to Lindau organised by	(4 hour)
	Academy of Sciences Malaysia at Sime Darby	
	Organising committee for the National Science Challenge	
O	Semi Final 2012 a programme under the Science	40,40040
Committee Member	Excellence Enrichment Program Task Force, Academy of	12.4.2012 – present.
	Sciences Malaysia.	
Member of the	4 th Malaysian Tissue Engineering \$ Regenerative	3.6.2012 - 4.6.2012
Scientific	Medicine Scientific Meeting (MTERMS) 2012	(2 days)
Committee	Invited Guest Speaker for "Nurturing Love of Science"	
Invited Guest	session during Brain Awareness Week organised by the	18.3.2012
Speaker	NeuroMalavsja Society at Monash University, Sunway,	(0.5 hour)
Session	Chairing the second scientific session for PGM Seminar	15.3.2012
Chairperson	2012.	(2 hours)
Committee Member	Organising committee member for PGM Seminar 2012 in	15.3.2012
	conjunction with the 17 th PGM Annual General Meeting.	(4 hours)
	Given a lecture on "A Nobel Trip to Lindau, Germany:	4.44.0044
Invited Speaker	Once in a Litetime Opportunity during Academy of Sciences Melavois Lindou Programma Readshow in	4.11.2011 (1 hour)
		(Thour)
	Live interview on "61 st Meeting with Nobel Laureates with	
Guess Interviewee	Young Scientists" during the Sudut Pandang programme	19.7.2011 (20 minutes)
	hosted by Astro Awani Channel (10:00pm – 10:30pm)	(30 minutes)
Invited Speaker	Given a lecture on "Strategies in managing your graduate research" during GSC Day 2011	18.1.2011 (1 hour)
	Jointly organised the 'Career Week' with the Graduate	
Committee Member	Student Club, Faculty of Medicine and Health Sciences.	2.12.2004 – 3.12.2004
	UPM.	(2 days)
	Contributed to the rapid viral genome sequencing	
Contributor	capability exercise involving a 40-member team, which	26.5.2003 – 1.6.2003
50	undertook the sequencing, assembly and analysis of two	(6 days)
	coronavirus genomes within a one-week time frame.	