

CURRICULUM VITAE



Name: Nurul Hayati binti Mohamad Zainal
Position: Medical Lecturer
Department: Human Anatomy
Faculty of Medicine and Health Sciences
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SCOPUS ID:

Education

1. Doctor of Philosophy (PhD), 2018
The University of Adelaide, Australia
2. Master of Medical Sciences (Physiology), 2013
Universiti Kebangsaan Malaysia
3. Doctor of Medicine (MD), 2004
Universiti Sains Malaysia

Areas of Interest

1. Human Physiology
2. Proteomics
3. Paediatrics and Maternal Reproductive Health
4. Allergy and Immunology
5. Molecular Biology
6. Medical Education

Professional Qualification/ Membership/ Affiliation

1. Malaysian Medical Association (MMA), 2004 to present.
2. Malaysian Society of Pharmacology and Physiology (MSPP), 2012 to present.
3. The Society for Reproductive Biology, Australia, 2015 to present.
4. Malaysian Association of Education in the Medical & Health Sciences (MAEMHS), 2021 to present.
5. Persatuan Alumni Doktor USM (PADU), 2021 to present.

Appointments (Inside and Outside UPM)

Date	Designation	Remarks
1. April 2018 – May 2019	Respiratory System Coordinator (SPP3542) UPM Undergraduate MD Program Year 1	
2. May 2019	Respiratory System Coordinator (MDR3007) UPM Undergraduate MD Program Year 1	Till present.
2. July – Oct 2019.	Systematic Review and Writing Workshop Department of Human Anatomy (JAM) Faculty of Medicine and Health Sciences UPM Serdang	Committee.
3. July – Oct 2019.	Young Scientist Day @ Charity Homes 2019	Committee.



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| 4. Sept. 2019 – present. | Implementation of New Curriculum Preclinical Undergraduate MD Program | Committee. |
| 5. Jan 2020 – Oct. 2021. | 3rd International Anatomical and Biomedical Scientific (IABS) Conference 2021 | Committee. |

Publications

Journals (in 5 years)

1. Mohamad Asri, S.F.; Soelaiman, I.N.; Mohd Moklas, M.A.; Mohd Nor, N.H.; **Mohamad Zainal, N.H.**; Mohd Ramli, E.S. The Role of Piper Sarmentosum Aqueous Extract as a Bone Protective Agent, a Histomorphometric Study. *International Journal of Molecular Sciences* 2020, 21, doi:10.3390/ijms21207715.
2. Meng, G.Y.; Abas, R.; Syakroni, N.; Razak, N.I.A.; Nor, N.H.M.; Asri, S.F.M.; Salihan, S.; **Zainal, N.H.M.**; Thani, S.M.; Saat, A. Evaluation and Determinants of Secondary Metabolites and its Antioxidant Activities of Various Fractions from Albizia myriophylla Bark. *Proceedings* 2020, 61, doi:10.3390/iecn2020-07004.
3. **Nurul Hayati Mohamad Zainal**, Aishwarya Sivakumar, Ahmad Muaz Ibrahim, Dayana Aida Azhar, Nurul Huda Mohd Nor. Face Mask Usage During Covid-19 Pandemic: Prevalence and Factors Associated in Malaysian Medical School – *awaiting review*.
4. Razif Abas, Rusliza Basir, Suryati Mohd Thani, Safuraa Salihan, Azmah Sa'at, **Nurul Hayati Mohamad Zainal**, Siti Fadziyah Mohamad Asri, Nur Izah Ab Razak, Nurul Huda Mohd Nor, Rafidah Hod, Nur Aqilah Kamaruddin. Emerging Role for The NLRP3 Inflammasome in Endothelial Cell 2 Activation – *awaiting review*.
5. **Nurul Hayati Mohamad Zainal**, Norfilza M. Mokhtar, Nor Azlin Mohamed Ismail. Low Methylation of Matrix Metalloproteinase 1 (*MMP1*) is Associated with Preterm Labour in Malaysian Mothers – *awaiting review*.
6. Halimatus Sakdiah Minhat, Suhainizam Muhamad Saliluddin, Rusliza Basir, Nur Izah Ab Razak, **Nurul Hayati Mohamad Zainal**, Noorkardiffa Syawalina Omar. UPM Undergraduate Medical Students' Mental Health Status and Coping Strategies During Movement-Controlled Order – *awaiting review*.

Conference Proceedings (in 5 years)

1. **Nurul HM Zainal**, Peter Hoffmann, Astrud Tuck, Vicki L. Clifton. Identification of salivary and placental proteins associated with subsequent allergic disease in childhood. Australian Society of Medical Research (ASMR) SA Annual Scientific Meeting, 3rd June 2015, National Wine Centre, Adelaide, South Australia.
2. **Nurul NHMZ Mohamad Zainal**, Peter PH Hoffmann, Astrud AT Tuck, Vicki VC Clifton. Identification of salivary and placental proteins associated with subsequent allergic disease in childhood. The Annual Scientific Meetings of Endocrine Society of Australia and Society for Reproductive Biology (ESA-SRB), 23rd-26th August 2015, Adelaide Convention Centre, Adelaide, South Australia.
3. **Nurul HM Zainal**, Peter Hoffmann, Astrud Tuck, Vicki L. Clifton. Proteomic identification of placental proteins associated with subsequent allergic disease in childhood. International Federation of Placenta Associations (IFPA) 2015 Meeting. 8th – 11th Sept. 2015, Brisbane Convention & Exhibition Centre, Brisbane, Australia.
4. **Nurul HM Zainal**, P. Hoffmann, A. Tuck, V. Clifton. Identification of salivary and placental proteins associated with subsequent allergic disease in childhood. The 9th Annual Florey International Postgraduate Research Conference, 24th Sept. 2015, National Wine Centre, Adelaide, South Australia.
5. **Nurul HM Zainal**, Peter Hoffmann, Astrud Tuck, Vicki L. Clifton. Proteomic identification of placental proteins associated with subsequent allergic disease in childhood. Robinson Research Institute (RRI) Symposium. 4th Nov. 2015, National Wine Centre, Adelaide, South Australia.
6. **Nurul HM Zainal**, Peter Hoffmann, Astrud R. Tuck, Vicki L. Clifton. Identification of salivary proteins associated with subsequent allergic disease in childhood. Australian Society of Medical Research (ASMR) SA Annual Scientific Meeting. 8th June 2016, Adelaide Convention Centre, Adelaide, South Australia.
7. **Nurul HM Zainal**, Peter Hoffmann, Astrud R. Tuck, Vicki L. Clifton. Identification of salivary proteins associated with subsequent allergic disease in childhood. Adelaide Protein Group (APG) Award. 22nd June 2016, The South Australian Health and Medical Research Institute (SAHMRI), Adelaide, South Australia.



8. **Nurul HM Zainal**, Peter Hoffmann, Astrud R. Tuck, Vicki L. Clifton. Identification of placental proteins associated with subsequent allergic disease in childhood. Annual Meetings of the Endocrine Society of Australia, the Society for Reproductive Biology and the Australia and New Zealand Bone and Mineral Society 2016. 21st -24th August 2016, Gold Coast Convention Centre, Gold Coast, Queensland, Australia.
9. **N.H.M. Zainal**, P. Hoffmann, A.R. Tuck, V.L. Clifton. Identification of salivary proteins associated with subsequent allergic disease in childhood. The 10th Annual Florey Postgraduate Research Conference. 29th Sept. 2016, National Wine Centre, Adelaide, South Australia.
10. **Nurul HM Zainal**, Peter Hoffmann, Astrud R. Tuck, Vicki L. Clifton. Identification of placental proteins associated with subsequent allergic disease in childhood. Robinson Research Institute (RRI) Symposium. 3rd Nov. 2016, National Wine Centre, Adelaide, South Australia.
11. **Nurul Hayati Mohamad Zainal**, Peter Hoffmann, Astrud R. Tuck, Vicki L. Clifton. Proteomic Identification of Placental Proteins Associated with Subsequent Allergic Disease in Childhood. 33rd Scientific Meeting of the Malaysian Society of Pharmacology and Physiology, 15th – 16th July 2019, Putrajaya, Malaysia.
12. **Nurul Hayati Mohamad Zainal**, Peter Hoffmann, Astrud R. Tuck, Vicki L. Clifton. Proteomic Identification of Placental Proteins Associated with Subsequent Allergic Disease in Childhood. 7th International Symposium on Applied Engineering and Sciences (SAES2019), 11th – 12th Nov 2019, UPM Serdang, Malaysia.
13. Goh Yong Meng, Razif Abas, Nurmawati Syakroni, Nur Izah Abdul Razak, Nurul Huda Mohd. Nor, Siti Fadziyah Mohamad Asri, Safuraa Salihan, **Nurul Hayati Mohamad Zainal**, Suryati Mohd. Thani, Azmah Saat. 1st International Electronic Conference on Nutrients, 2 – 15 November 2020; <https://iecn2020.sciforum.net/>.
14. **Nurul Hayati Mohamad Zainal**, Nurul Huda Mohd Nor, Aishwarya Sivakumar, Ahmad Muaz Ibrahim and Dayana Aida Azhar. Prevalence and Factors Associated with Face Mask Usage During Covid-19 Pandemic Among Students and Staff of Malaysian Medical School. YSN-ASM International Scientific Virtual Conference (ISVC) 2021, 29 March – 1 April 2021.
15. **Nurul Hayati Mohamad Zainal**, Peter Hoffmann, Astrud R. Tuck, Vicki L. Clifton. Placental Proteins Proteomic Identification is Associated with Subsequent Allergic Disease in Childhood. 20th MSAI Virtual Congress, 3rd, 4th & 10th April 2021.

Books (If any)

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Chapter in Books (If any)

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Research Grants

Received 2020

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On-going

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Research Grants

No.	Project Title	Amount (RM)	Year	Source of Fund
1.	-			
2.				

Awards/ Recognition (Current)

No.	Name of awards	Award Authority	Award Type	Year
1.	Scholarship for Undergraduate Programs (Medical Doctor)	Public Service Department	National (Malaysia)	1999 - 2004



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|----|---|--|----------------------------------|-------------|
| 2. | Academic Training Scheme Scholarship for Master study | Ministry of Higher Education Malaysia | National (Malaysia) | 2009 - 2011 |
| 3. | Academic Training Scheme Scholarship for PhD study | Ministry of Higher Education Malaysia | National (Malaysia) | 2013 - 2017 |
| 4. | Best Poster Awards | 2015 Annual Florey International Postgraduate Research Conference, The University of Adelaide, Australia | Executive Dean Prize (AUD \$300) | 2015 |
| 5. | Gold Medal at the International Putra InnoCreative Poster Competition | International Putra InnoCreative Carnival in Teaching and Learning 2020
Universiti Putra Malaysia | International | 2020 |

Professional Services/ Consultation			
No.	Year	Title	Authority
1.	July 2019	Expert Content (Medical Physiologist) Projek Penyelidikan Geran Insentif Penyelidikan Dalam Pengajaran dan Pembelajaran (GIPP): "A New Approach Using Augmented Reality (AR) Visualisation to Improve Medical Students Learning of The Cardiac Cycle". (GIPP – NO.VOT: 9323739)	Registrar UPM
2.	Jan. 2020	Expert Content (Medical Physiologist) Alat Bantu Mengajar (Class VR) Fargoes Infotech Sdn Bhd	Registrar UPM
3.	June 2020	Research Proposal Paper Assessor SPK 3621 Research Methods & Project UPM Undergraduate MD Program Year 2	Faculty of Medicine and Health Sciences UPM Serdang
4.	Sept. 2020	Panel of Judges for Data Analysis Presentation SPK 3621 Research Methods & Project UPM Undergraduate MD Program Year 2	Faculty of Medicine and Health Sciences UPM Serdang
5.	Sept. 2020	Panel of Judges for Poster Presentation SPK 3621 Research Methods & Project UPM Undergraduate MD Program Year 2	Faculty of Medicine and Health Sciences UPM Serdang
6.	Oct. 2020	Panel of Judges for Final Seminar Presentation SPK 3621 Research Methods & Project UPM Undergraduate MD Program Year 2	Faculty of Medicine and Health Sciences UPM Serdang
7.	Oct. 2020	Reviewer Scientific Article SPK 3621 Research Methods & Project UPM Undergraduate MD Program Year 2	Faculty of Medicine and Health Sciences UPM Serdang
8.	Oct. 2020	Thesis Examiner for Final Year Scientific Project Bachelor of Nursing (NUR4999B)	Faculty of Medicine and Health Sciences UPM Serdang

9.	Jan. 2021	Research Proposal Paper Assessor SPK 3621 Research Methods & Project UPM Undergraduate MD Program Year 2	Faculty of Medicine and Health Sciences UPM Serdang
10.	May 2021	Journal Reviewer Malaysian for Journal of Medicine & Health Sciences	Journal of Medicine & Health Sciences
11.	June 2021	Journal Reviewer for Journal of Health and Translational Medicine	Journal of Health and Translational Medicine
12.	June 2021	Panel of Judges for Final Seminar Presentation SPK 3621 Research Methods & Project UPM Undergraduate MD Program Year 2	Faculty of Medicine and Health Sciences UPM Serdang

Student Supervision

PhD (Main Supervisor)

No.	Name	Title	Status
1.	-		
2.			
3.			

Master with Thesis (Main Supervisor)

No.	Name	Title	Status
1.	-		
2.			
3.			

Master without Thesis (Main Supervisor)

No.	Name	Title	Status
1.	-		
2.			
3.			

Attended Seminars/ Workshops/ Forums both National and International

No.	Year	Title	Organizers
1.	July 2019	33rd MSPP Scientific Meeting "Towards Innovative and Sustainable Research in Drug Discovery"	Malaysian Society of Pharmacology and Physiology (MSPP), Controlled Release Society the Malaysia Local Chapter
2.	July 2019	MSPP2019 Pre-conference Seminar Series "Protein Decomplexation in Proteomics"	Malaysian Society of Pharmacology and Physiology (MSPP)
3.	July 2019	ISTIC's 4 th Biennial International Conference on Women in Science, Technology, and Innovation	International Science, Technology, and Innovation Centre for South-South Cooperation under the auspices of UNESCO
4.	August 2019	Workshop on Academic Writing and Publishing	Enago Academy and UPM Serdang



5.	Nov. 2109	7 th International Symposium on Applied Engineering and Sciences (SAES2019)	Faculty of Engineering, UPM and Kyushu Institute of Technology (Kyutech), Japan
6.	Nov. 2109	MSPP Teachers' Refresher Course on The Central Nervous System	Malaysian Society of Pharmacology and Physiology (MSPP)
7.	Jan. 2020	Workshop on 'Reflective Writing' Marking Module MDR3101 UPM Undergraduate MD Program Year 1	Faculty Medicine and Health Sciences UPM Serdang
8.	May 2020	Clinical Updates in COVID-19: Postmortem Findings In COVID-19 Patients and Mental Health Issues in The Era Of COVID-19	Institute for Clinical Research, NIH
9.	June 2020	Physiology International Web Conference: How to educate college students during the pandemic era, from the perspective of physiology	Indonesian Physiological Society and Universitas Sriwijaya
10.	June 2020	Improving Academic Writing Skills in Publishing High Impact Journals	Faculty of Engineering, UPM
11.	June 2020	Clinical Updates in COVID-19: COVID-19 Mortality Review in Malaysia and Updates on Clinical Management of COVID-19	Institute for Clinical Research, NIH
12.	July 2020	COVID-19 & Women's Mobility: ASEAN Perspective	Faculty of Civil Engineering, Universiti Teknologi MARA
13.	July 2020	COVID-19 & Women's Mobility: Where Do We Go from Here?	Faculty of Civil Engineering, Universiti Teknologi MARA
14.	July 2020	COVID-19: What can Malaysia and Kerala, India teach the rest of the world?	Drugs for Neglected Diseases Initiative and COVID-19 Clinical Research Coalition
15.	June – July 2020	Pre-Conference Webinar Series: 4 th International Conference on Computer Assisted System in Health, Education and Sustainable Development (CASH2020)	Computer Graphic, Visual and Visualization Research Group, UPM
16.	August 2020	2 nd Malaysia Stroke Virtual Conference 2020	Malaysia Stroke Council
17.	August 2020	Augmented Reality, Virtual Reality & Artificial Intelligent: Why Is It Important to Protect New Innovations	Putra Science Park UPM
18.	Oct. 2020	Fast Forward Virtual Forum 2020 – Ophthalmology, Haematology, Obstetrics& Gynaecology and Paediatrics& Respiratory	DKSH Malaysia Sdn. Bhd. Academy of Medicine of Malaysia
19.	Oct. 2020	International Putra InnoCreative Carnival in Teaching and Learning 2020	CADe UPM
20.	Nov. 2020	MSPP Virtual Refresher Course 2020	Malaysian Society of Pharmacology and Physiology (MSPP)
21.	Nov. 2020	Virtual PGM Seminar in Conjunction with JSB Seminar Series	Genetic Society of Malaysia (PGM)
22.	Nov. 2020 to Feb. 2021	Webinar Series on Basics in Clinical Education (BICE)	Medical Faculty, Universiti Teknologi Mara (UiTM)
23.	Dec. 2020	Asia Pacific Spatial Genomics Summit	NanoString Illumina



24.	Dec. 2020	Symposium on Applied Engineering and Sciences (SAES2020)	Kyushu Institute of Technology (Kyutech) UPM
25.	March 2021	YSN-ASM International Scientific Virtual Conference (ISVC) 2021	Young Scientists Network Academy of Sciences Malaysia
26.	Apr. 2021	20th MSAI Virtual Congress	Malaysian Society of Allergy & Immunology (MSAI)
27.	Apr. 2021	The Understanding and Practical Aspects of Induced Lactation and Wet Nursing	The International Society for Research in Human Milk and Lactation (ISRHML)
28.	May 2021	Impact of Pregnancy Complications on Breast Milk, Breastfeeding and Infants: Where Are We Now?	The International Society for Research in Human Milk and Lactation (ISRHML)
29.	May 2021	Diagnosis & Management of COVID-19: East Meets West	Satellite Symposium in Conjunction with the International Conference of Drug Discovery and Translational Medicine 2021 (ICDDTM '21)
30.	May 2021	IBRO Horizons Webinar: Translational neuroscience & novel therapeutics for neurodegenerative diseases in the Asia/Pacific region	International Brain Research Organization (IBRO)
31.	June 2021	Everyone Can Write Manuscript in Health Professions Education	MERIU, Faculty Medicine and Health Sciences UPM Serdang
32.	June 2021	Meta-Analysis Workshop	Biomedical Science Department, Faculty Medicine and Health Sciences UPM Serdang

Intellectuals Property

Patent Granted

No.	Date	Patent No.	Name
1.	-		
2.			

Patent Field

No.	Date	Patent No.	Name
1.	-		
2.			