

CURRICULUM VITAE



Name : Dr. Mok Pooi Ling
 Position : Associate Professor
 Department of Biomedical Science
 Faculty of Medicine and Health Sciences
 Universiti Putra Malaysia
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Education

1. Biomedical Sciences (Hons), Universiti Kebangsaan Malaysia
2. MSc in Pathology, Universiti Kebangsaan Malaysia
3. PhD in Pathology, Universiti Kebangsaan Malaysia

Areas of Interest

1. Cancer targeting
2. Nanomedicine
3. Stem Cells
4. Gene therapy
5. Regenerative medicine

Professional Qualification/ Membership/ Affiliation

1. Malaysian Society of Haematology (Life Member No: MSH07/L086) – Associate member
2. Armenian Association of Hematology and Oncology (Full Member No: MA0001) – Life member
3. Malaysian Stem Cell for Research and Therapy (Life Member since April 2015) – Founding Vice President (2015-2017) & Life member

Appointments (Inside and Outside UPM)

Date	Designation	Remarks
1. 1 st Jul 2013	Assistant Professor UPM	
2. 1 st Jul 2018	Associate Professor UPM	
3. 25 th September 2013 to 24 th June 2021	Associate Professor Jouf University, Saudi Arabia	Secondment program

Publications

Journals (in 5 years)

1. Ding, S.S.L., Subbiah, S.K., Khan, M.S.A., Farhana, A., **Mok, P.L.** Empowering Mesenchymal Stem Cells for Ocular Degenerative Disorders. Int. J. Mol. Sci. 2019, 20, 1784. (IF:4.183, Q2, 2018)

2. A.E.H. Koh, H.A.A Alseedi, M.A. Rashid, C.S. Lam, M.H.N. Harun, M.F.M. Saleh, C.D. Luu, S.S. Kumar, M.H. Ng, H.M. Isa, S.N. Leow, K.Y. Then, M-L C. Bastion, M.S.A. Khan & **PL Mok**. Retinal degeneration rat model: A study on the structural and functional changes in the retina following injection of sodium iodate. *Journal of Photochemistry and Photobiology, B. Biology*. doi.org/10.1016/j.photobiol.2019.111514 (IF:4.067, Q1, 2018)
3. S.W. Teh, **PL Mok** & S.Kumar. Misunderstanding of Leptospirosis. *Acta Tropica*. 197 (2019): 105046. (IF: 2.629, Q1, 2018)
4. SLS Ding, AE Koh, S Kumar, MS Ali Khan, B Alzaharani, **PL Mok**. Genetically-modified human mesenchymal stem cells to express erythropoietin enhances differentiation into retinal photoreceptor: An invitro study. *Journal of Photochemistry and Photobiology B: Biology*. 195 (June 2019): 33-38. (IF:4.067, Q1, 2018)
5. Alsaeedi H & **Mok PL**. Dental pulp stem cells therapy overcome photoreceptor cell death and protects the retina in a rat model of sodium iodate-induced retinal degeneration. *Journal of Photochemistry and Photobiology, B. Biology*. 2019; 198: 111561 doi.org/10.1016/j.jphotobiol.2019.111561 (IF:4.067, Q1, 2018)
6. **PL Mok**, SLS Ding, Aisha F, Badr A, Mohammed Safwan AK, S. Kumar. Photoreceptor Therapy: Generation of neurosphere-like cells from human mesenchymal stem cells expressing erythropoietin *Sains Malaysiana* 2020. 49 (1). pp. 113-119. (IF: 0.540, Q2 2019 SJR)
7. Hiba AA, Lam CS, Koh AEH, Teh SW, **Mok PL**, Higuchi A, Then KY, Bastion MLB, Alzaharani B, Farhana A, Muthuvenkatachalam BS, Samrot AV, Swamy KB, Marraiki N, Elgerban AM, Subbiah SK. Looking into dental pulp stem cells in the therapy of photoreceptors and retinal degenerative disorders. *Journal of Photochemistry and Photobiology B: Biology*. 2020; 203: 111727. (IF:4.067, Q1, 2018)
8. Yan Chao Cui, Yu Sheng Qiu, Qiong Wu, Gang Bu, Seoh Wei Teh, Guo Zhong He, **Pooi Ling Mok**, Antony V. Samrot, Rajan Mariappan, Akon Higuchi, Palanisamy Arulselvan, Sanjiv Rampal Lekhraj Rampal, Bala Sundaram Muthuvenkatachalam, K. B. Swamy, Zhong Sun, Kok Pian Ang, Kong Yong Then, and S. Suresh Kumar . Hypoxic-Mediated Oxidative Stress Condition and Hydroxyapatite-Inducing Osteogenic Differentiation of Human Mesenchymal Stem Cells: A Mathematical Modeling Study. *J. Biomed. Nanotechnol.* 16, 910–921 (2020) (IF: 5.280, Q1 2019 SJR)
9. **Mok et al**. Metabolic utilization of human osteoblast cells under normoxic and hypoxic conditions: A phenotypic microarray analysis. *Experimental Biology and Medicine*. 2021. 1535370220985468 (IF: 3.139, Q1 2019 SJR)
10. Samrot, A.V.; Sean, T.C.; Bhavya, K.S.; Sahithya, C.S.; Chan-draseskaran, S.; Palanisamy, R.; Robinson, E.R.; Subbiah, S.K.; **Mok, P.L.** Leptospirosis Infection, Pathogenesis and Its Diagnosis—A Review. *Pathogens* 2021, 10, 145. <https://doi.org/10.3390/pathogens10020145> (IF: 3.019, Q2)
11. Chenshen Lam, HibaAmerAlsaeedi, AvinEe-Hwan Koh, MohdHairulNizamHarun, Angela Ng Min Hwei, **Pooi Ling Mok**, Chi D Luu, Then Kong Yong, Suresh Kumar Subbiah, Mae-Lynn Catherine Bastion. Human Dental Pulp Stem Cells (DPSCs) Therapy in Rescuing Photoreceptors and Establishing a Sodium Iodate-Induced Retinal Degeneration Rat Model. *Tissue Engineering and Regenerative Medicine* 2021: 18 (1), 143-154. (IF: 2.24; SJR Q2)
12. Avin Ee-Hwan Koh, Suresh Kumar, Aisha Farhana, Mohammad Khursheed Alam, **Pooi Ling Mok**. Mitigation of sodium iodate-induced cytotoxicity in retinal pigment epithelial cells in vitro by transgenic

- erythropoietin-expressing mesenchymal stem cells. *Frontiers in Cell and Developmental Biology*. *Frontiers in Cell and Developmental Biology* 2021: 9, 768 (IF: 5.182, Q1)
13. Avin Ee-Hwan Koh, Hiba Amer Alsaeedi, Munirah Abd Rashid, Chenshen Lam, Mohd Hairul Nizam Harun, Min Hwei Ng, Hazlita Mohd Isa, Kong Yong Then, Catherine Mae-Lynn Bastion, Aisha Farhana, Mohammad Khursheed Alam, Suresh Kumar, **Pooi Ling Mok**. Transplanted erythropoietin-expressing mesenchymal stem cells promote pro-survival gene expression and protect photoreceptors from sodium iodate-induced cytotoxicity in a retinal degeneration model. *Frontiers in Cell and Developmental Biology* 2021: 9, 960 (IF: 5.182, Q1)
 14. Sanjida Haque, Mohammad Khursheed Alam, Ahmed Ali Alfawzan, **Pooi Ling Mok**, Anand Marya, Adith Venugopal, Nafij Bin Jamayet, Ammar A Siddiqui. Sagittal Development of Different Types of Cleft and Non-Cleft Individuals. *Frontiers in Pediatrics* 2021: 9, 383 (IF:2.634, Q1)
 15. **Pooi Ling Mok**, Arun Neela Kumar Anandasayanam, Hernandez Maradiaga Oscar David, Jiabei Tong, Aisha Farhana, Mohammed Safwan Ali Khan, Gothai Sivaprakasam, Avin Ee-Hwan Koh, Badr Alzahrani. Lung development, repair and cancer: A study on the role of MMP20 Gene in Adenocarcinoma. *PLoS one* 2021: 16 (4), e0250552 (IF: 2.74, Q1)
 16. Oscar David Hernandez Maradiaga, **Pooi Ling Mok**, Gothai Sivapragasam, Antony V Samrot, Mohammed Safwan Ali Khan, Aisha Farhana, Badr Alzahrani, Jiabei Tong, Thilakavathy Karuppiah, Narcisse Joseph, Suresh Kumar Subbiah. Lipofection of Single Guide RNA Targeting MMP8 Decreases Proliferation and Migration in Lung Adenocarcinoma Cells. *Medicina*. 2021: 57:7; 710.
 17. Antony V Samrot, Amira Abubakar Mohamed, Etel Faradjeva, Lee Si Jie, Chin Hooi Sze, Akasha Arif, Tan Chuan Sean, Emmanuel Norbert Michael, Chua Yeok Mun, Ng Xiao Qi, **Pooi Ling Mok**, Suresh S Kumar. Mechanisms and Impact of Biofilms and Targeting of Biofilms Using Bioactive Compounds—A Review. *Medicina* 2021: 57(8), 839.
 18. Seoh Wei Teh, Avin Ee-Hwan Koh, Jia Bei Tong, Xiaoyun Wu, Antony V. Samrot, Sanjiv Rampal, **Pooi Ling Mok**, Suresh Kumar Subbiah. Hypoxia in Bone and Oxygen Releasing Biomaterials in Fracture Treatments Using Mesenchymal Stem Cell Therapy: A Review. *Front. Cell Dev. Biol.*, 20 August 2021. <https://doi.org/10.3389/fcell.2021.634131>
 19. S Sakinah, Sivan Padma Priya, **Pooi Ling Mok**, Rusheni Munisvaradass, Seoh Wei Teh, Zhong Sun, Badr Alzahrani, Faizal Abu Bakar, Hui-yee Chee, Rukman Awang Hamat, Guozhong He, Chenglong Xiong, Narcisse Joseph, Jia Bei Tong, Xiaoyun Wu, Mahendran Maniam, Antony V Samrot, Akon Higuchi, S Suresh Kumar. Stem Cell Therapy in Dengue Virus-Infected BALB/C Mice Improves Hepatic Injury. *Front Cell Dev Biol*. 2021; 9: 637270.
 20. **Pooi Ling Mok**, Avin Ee-Hwan Koh, Aisha Farhana, Abdullah Alsrhani, Mohammad Khursheed Alam, Subbiah Suresh Kumar. Computational drug screening against the SARS-CoV-2 Saudi Arabia isolates through a multiple-sequence alignment approach. *Saudi Journal of Biological Sciences*.2021. 28(4): 2502-2509. <https://doi.org/10.1016/j.sjbs.2021.01.051>
 21. Aisha Farhana, Avin Ee-Hwan Koh, Sangeetha Kothandan, Abdullah Alsrhani, **Pooi Ling Mok**, Suresh Kumar Subbiah. Treatment of HT29 Human Colorectal Cancer Cell Line with Nanocarrier-Encapsulated Camptothecin Reveals Histone Modifier Genes in the *Wnt* Signaling Pathway as Important Molecular Cues for Colon Cancer Targeting. *International Journal of Molecular Sciences*. 2021. 22(22): 12286.

22. Aisha Farhana, Avin Ee-Hwan Koh, Jia Bei Tong, Abdullah Alsrhani, Suresh Kumar Subbiah, **Pooi Ling Mok**. Nanoparticle-Encapsulated Camptothecin: Epigenetic Modulation in DNA Repair Mechanisms in Colon Cancer Cells. *Molecules* 2021. 26(17): 5414.
23. Abozer Y Elderderly, Abdulaziz H Alhamidi, Ahmed ME Elkhalfifa, Maryam M Althobiti, Nawal Eltayeb Omer, Mahdi H Alsugoor, Naif Alsuhaymi, Entesar M Atebien, Siddiqa MA Hamza, Badr Alzahrani, Fehaid Alanazi, Suresh Kumar Subbiah, **Pooi Ling Mok**. Synthesis, Characterization, and Antimicrobial and Antiproliferative Effects of CuO-TiO₂-Chitosan-Escin Nanocomposites on Human Leukemic MOLT4 Cells. *Nanomaterials*. 2022. 12(21): 3753.
24. Abozer Y Elderderly, Badr Alzahrani, Siddiqa Hamza, Gomaa Mostafa-Hedeab, **Pooi Ling Mok**, Suresh Kumar Subbiah. Synthesis, Characterization, and Antiproliferative Effect of CuO-TiO₂-Chitosan-Amygdalin Nanocomposites in Human Leukemic MOLT4 Cells. <https://doi.org/10.1155/2022/1473922>.
25. Abozer Y Elderderly, Badr Alzahrani, Fehaid Alanazi, Siddiqa MA Hamza, Ahmed ME Elkhalfifa, Abdulaziz H Alhamidi, Abdulrahim A Alabdulsalam, A Mohamedain, Suresh S Kumar, **Pooi Ling Mok**. Amelioration of human acute lymphoblastic leukemia (ALL) cells by ZnO-TiO₂-Chitosan-Amygdalin nanocomposites. <https://doi.org/10.1016/j.arabjc.2022.103999>
26. Aisha Farhana, Sangeetha Kothandan, Abdullah Alsrhani, **Pooi Ling Mok**, Suresh Kumar Subbiah, Yusuf Saleem Khan, "In silico Prediction of Deleterious Single Nucleotide Polymorphism in S100A4 Metastatic Gene: Potential Early Diagnostic Marker", *Contrast Media & Molecular Imaging*, vol. 2022, Article ID 4202623, 12 pages, 2022. <https://doi.org/10.1155/2022/4202623>
27. Abd Rashid, Munirah; Chenshen, Lam; Ee Hwan, Avin Koh; AlSaeedy, Hiba; **Mok, Pooi Ling**; Subbiah, Suresh Kumar; Md Isa, Hazlita; Yong, Then Kong; Nizam Harun, Mohd Hairul; B S Mohamad, Syed Mohamed Suhail; Ng Min Hwei, Angela; Luu, Chi D; Bastion, Mae-Lynn Catherine. Rescue of photoreceptor with human mesenchyme stem cell and human mesenchyme stem cell expressing erythropoietin in total degeneration of retina animal model. *Indian Journal of Ophthalmology* 70(3):p 921-929, March 2022. | DOI: 10.4103/ijjo.IJO_472_21
28. Aisha Farhana, A. Jenifer Selvarani, Antony V. Samrot, Abdullah Alsrhani, P. Raji, Chamarthi Sai Sahithya, P. J. Jane Cypriyana, P. Senthilkumar, **Mok Pooi Ling**, Simon Yishak, "Utilization of Superparamagnetic Iron Oxide Nanoparticles (SPIONs) Impregnated Activated Carbon for Removal of Hexavalent Chromium", *Journal of Nanomaterials*, vol. 2022, Article ID 4326939, 13 pages, 2022. <https://doi.org/10.1155/2022/4326939>
29. Elderderly, Abozer Y., Alhamidi, Abdulaziz H., Elkhalfifa, Ahmed M. E., Althobiti, Maryam M., Tebien, Entesar M. A., Omer, Nawal Eltayeb, Hamza, Siddiqa M. A., Alanazi, Fehaid, Alzahrani, Badr, Subbiah, Suresh Kumar and **Mok, Pooi Ling**. "Synthesis and characterization of ZnO-TiO₂-chitosan-escin metallic nanocomposites: Evaluation of their antimicrobial and anticancer activities" *Green Processing and Synthesis*, vol. 11, no. 1, 2022, pp. 1026-1039. <https://doi.org/10.1515/gps-2022-0086>
30. **Mok PL**, Catherine BM, Subbiah SK, Higuchi A. Editorial: Neurodegenerative eye diseases: Molecular mechanisms of neurogenesis and therapeutic perspectives. *Front Cell Neurosci*. 2022 Oct 26;16:1060266. doi: 10.3389/fncel.2022.1060266. PMID: 36385951; PMCID: PMC9644272.
31. Badr, Fehaid Alanazi, Siddiqa M.A.Hamza, Ahmed M.E.Elkhalfifa, Adulaziz H Alhamidi, Abdulrahim A.Alabdulsalam, A.Mohamedain, Suresh S. Kumar, **PL Mok**, Abozer, E. Amelioration of human acute lymphoblastic leukemia (ALL) cells by ZnO-TiO₂-Chitosan-Amygdalin nanocomposites. 2023. <https://doi.org/10.1016/j.arabjc.2022.104481>

32. Seoh Wei Teh, Suresh Kumar Subbiah, Sanjiv Rampal, Pooi Ling Mok. CRISPR-Cas9 transfection of guide RNAs targeting on MMP2 and MMP9 reduced migratory activities in cutaneous squamous cell carcinoma cell line. 2023. 19(8): 19-20
33. Teh SW, Elderderly A, Rampal S, Subbiah SK, Mok PL. Clustered regularly interspaced short palindromic repeats (CRISPR)-Cas9 transfection of guide RNA targeting on MMP9 as anti-cancer therapy in human cutaneous squamous cell carcinoma cell line A431. *Contemporary Oncology/Współczesna Onkologia*. 2023;27(4):255-262. doi:10.5114/wo.2023.135364.
34. Abozer Y. Elderderly, Badr Alzahrani, Abdulrahim A. Alabdulsalam, Fehaid Alanazi, Siddiqa M A Hamza, Ahmed M E Elkhalfifa, Abdulaziz H. Alhamidi, A. Mohamedain, Suresh Kumar Subbiah, Pooi Ling Mok. Synthesis of nickel cobalt-codoped tin oxide nanoparticles from Psidium guajava with anticancer properties. *Arabian Journal of Chemistry*. Volume 16, Issue 2, 2023,104481. <https://doi.org/10.1016/j.arabjc.2022.104481>.
35. Alsrhani A, Elderderly AY, Alzahrani B, Alzerwi NAN, Althobiti MM, Rayzah M, Idrees B, Elkhalfifa AME, Subbiah SK, Mok PL. Therapeutic Potential of Albumin Nanoparticles Encapsulated Visnagin in MDA-MB-468 Triple-Negative Breast Cancer Cells. *Molecules*. 2023; 28(7):3228. <https://doi.org/10.3390/molecules28073228>
36. Alzahrani B, Elderderly AY, Alsrhani A, Alzerwi NAN, Althobiti MM, Rayzah M, Idrees B, Elkhalfifa AME, Subbiah SK, Mok PL. Effects of Albumin–Chlorogenic Acid Nanoparticles on Apoptosis and PI3K/Akt/mTOR Pathway Inhibitory Activity in MDA-MB-435s Cells. *Nanomaterials*. 2023; 13(9):1438. <https://doi.org/10.3390/nano13091438>
37. Alzahrani B, Elderderly AY, Alzerwi NAN, Alsrhani A, Alsultan A, Rayzah M, Idrees B, Rayzah F, Baksh Y, Alzahrani AM, Suresh S. Kumar, Mok PL. Pluronic-F-127-Passivated SnO₂ Nanoparticles Derived by Using Polygonum cuspidatum Root Extract: Synthesis, Characterization, and Anticancer Properties. *Plants*. 2023; 12(9):1760. <https://doi.org/10.3390/plants12091760>
38. Jia Bei Tong, R Sanjiv, A Elderderly, X Wu, R Rajesh, PL Mok. Current advances in the development of meniscus tissue engineering: narrative review. *The Medical journal of Malaysia*. 2023. 78(4): 534-540.
39. Badr Alzahrani, Abozer Y. Elderderly, Abdullah Alsrhani, Nasser A.N. Alzerwi, Maryam Musleh Althobiti, Ahmed M.E. Elkhalfifa, Musaed Rayzah, Bandar Idrees, Suresh S. Kumar, Pooi Ling Mok. Sodium alginate encapsulated iron oxide decorated with thymoquinone nanocomposite induces apoptosis in human breast cancer cells via PI3K-Akt-mTOR pathway. *International Journal of Biological Macromolecules*, Volume 244, 2023, 125054.
40. Rayzah M, Elderderly AY, Alzerwi NAN, Alzahrani B, Alsrhani A, Alsultan A, Idrees B, Rayzah F, Bakhsh Y, Alzahrani AM, Suresh SK, Mok PL. Syzygium cumini (L.) Extract-Derived Green Titanium Dioxide Nanoparticles Induce Caspase-Dependent Apoptosis in Hepatic Cancer Cells. *Plants*. 2023; 12(18):3174. <https://doi.org/10.3390/plants12183174>
41. Althobiti, M., Alzahrani, B., Elderderly, A., Alzerwi, N., Rayzah, M., Elkhalfifa, A., Idrees, B., Bakhsh, E., Alabdulsalam, A., Mohamedain, A., Kumar, S. & Mok, PL. (2023). In vitro anti-cancer and antimicrobial effects of manganese oxide nanoparticles synthesized using the Glycyrrhiza uralensis leaf extract on breast cancer cell lines. *Green Processing and Synthesis*, 12(1), 20230063. <https://doi.org/10.1515/gps-2023-0063>

42. Alanazi, F., Elderdery, A., Alzahrani, B., Alzerwi, N., Althobiti, M., Rayzah, M., Alanazi, A., Kuriri, F., Idrees, B., Alenazy, F., Alsultan, A., Rayzah, F., Baksh, Y., Subbiah, S. & Mok, P. (2023). Enhanced apoptotic activity of Pluronic F127 polymer-encapsulated chlorogenic acid nanoparticles through the PI3K/Akt/mTOR signaling pathway in liver cancer cells and in vivo toxicity studies in zebrafish. *e-Polymers*, 23(1), 20230053. <https://doi.org/10.1515/epoly-2023-0053>
43. Abozer Y. Elderdery, Nasser A.N. Alzerwi, Badr Alzahrani, Abdullah Alsrhani, Afnan Alsultan, Musaed Rayzah, Bandar Idrees, Fares Rayzah, Yaser Baksh, Ahmed M. Alzahrani, Abdulrahim A. Alabdulsalam, A. Mohamedain, Suresh Kumar Subbiah, Pooi Ling Mok. Nanocomposites of iron oxide, sodium alginate, and eugenol induce apoptosis via PI3K/Akt/mTOR signaling in Hep3 cells and in vivo hepatotoxicity in the zebrafish model. *International Journal of Biological Macromolecules*. Volume 256, Part 2, 2024, 127490.
44. Alzahrani, B., Elderdery, A., Alsrhani, A., Alzerwi, N., Althobiti, M., Rayzah, M., Idrees, B., Elkhailifa, A., Alabdulsalam, A., Alsultan, A., Baksh, E., ALSuhaymi, N., Kumar, S. & Mok, P. (2024). Manganese and copper-coated nickel oxide nanoparticles synthesized from *Carica papaya* leaf extract induce antimicrobial activity and breast cancer cell death by triggering mitochondrial caspases and p53. *Green Processing and Synthesis*, 13(1), 20230087. <https://doi.org/10.1515/gps-2023-0087>

Conference Proceedings (in 5 years)

1. **Potential Application of Stem Cells. Mi-Med 2023.** 28th-29th July 2023, MAHSA University, Malaysia.
2. **Stem Cell Therapy for Treatment of Ocular Disorder.** Dec 13th 2023. Vivekanandha College of Arts and Science, India
3. **Application of Mesenchymal Stem Cells to Reverse Visual Impairment (Keynote Lecture).** International E-Conference On Bioengineering For Health & Environment (ICBHE) 2021. 16-17th December 2021 (online).

Books (If any)

Chapter in Books (If any)

1. T Jiabei, **PL Mok**, SK Subbiah. 2023. Introduction: Stem cells and their application in research and therapy. *Stem Cell Laboratory Techniques*, 1-12. Elsevier.
2. SW Teh, HMO David, AEH Koh, SK Subbiah, **PL Mok**. 2023. Gene editing for stem cells by CRISPR-Cas9. *Stem Cell Laboratory Techniques*, 153-175. Elsevier.
3. SW Teh, **PL Mok**, SK Subbiah. 2023. Confirmation of stem cells pluripotency via teratoma formation in an animal model. *Stem Cell Laboratory Techniques*, 143-151. Elsevier.
4. GC Ooi, **PL Mok**, SK Subbiah. 2023. Hypoxic environment: A new solution to stem cell culture. *Stem Cell Laboratory Techniques*, 177-187. Elsevier.
5. S.Saknah, Sharmilah Kumari, **Mok Pooi Ling**, Akon Higuichi, Giovanni Benelli, Suresh Kumar. *Dengue: a silent killer, a worldwide threat. Mosquito-borne Diseases. Parasitology Research Monographs.* Springer, Cham. 2018.
6. Cheah Pike See, Tan Niu Jin, **Mok Pooi Ling**, Leong Pui Yee, Ling King Hwa. *Little Man Inside Us.* NYAWA. 2016. Universiti Putra Malaysia.

Research Grants

Received 2020

1. Bioinformatics approach for identification of anti-viral drug and receptor ligand for the treatment of coronavirus disease. 2020-2021. RM30.2k (PI)
2. Regenerative properties of dental pulp stem cells and craniofacial research. 2020-2021. RM50k (PI)
3. CART-cell immunotherapy for breast cancer targeting. 2022-2023. RM50k (PI)

On-going

1. Evaluation on Safety And Efficiency of Cexci-Rhrx1.0 on Isoproterenol-Induced Cardiac Hypertrophy in Mice Model. 2022-2025. RM300k (PI)

Research Grants

No.	Project Title	Amount (RM)	Year	Source of Fund
1.	Evaluation on Safety And Efficiency of Cexci-Rhrx1.0 on Isoproterenol-Induced Cardiac Hypertrophy in Mice Model	RM300000	2022	Cell Genesis Pte. Ltd., Singapore
2.	CART-cell immunotherapy for breast cancer targeting.	RM50000	2022	Way Research Academy, Malaysia
3.	Regenerative properties of dental pulp stem cells and craniofacial research	RM50000	2020	Ministry of Higher Education, Saudi Arabia
4.	Bioinformatics approach for identification of anti-viral drug and receptor ligand for the treatment of coronavirus disease. 2020-2021	RM30200	2020	Jouf University, Saudi Arabia

Awards/ Recognition (Current)

No.	Name of awards	Award Authority	Award Type	Year
1.	Anugerah Perkhidmatan Cemerlang	UPM	University	2016
2.	Best Awards in Industrial and Community Service	UPM	University	2016
3.	Best Awards in Industrial and Community Service	UPM	University	2017
4.	Research Excellence Award	Jouf University	University	2018
5.	Research Excellence Award	Jouf University	University	2019
6.	Research Excellence Award	Jouf University	University	2020
7.	Anugerah Penyelidik Terbaik (Kluster Sains Kesihatan)	FMHS, UPM	Faculty	2021
8.	Anugerah Penyelidik Terbaik (Kluster Sains Kesihatan)	FMHS, UPM	Faculty	2022
	Anugerah Perkhidmatan Cemerlang	UPM	University	2023

Professional Services/ Consultation

No.	Year	Title	Authority
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1.	2023	Panel Assessor for Program Accreditation	MQA, Malaysia
2.	2022-now	Research Grant Reviewer (University Level)	UPM, Malaysia
3.	2020-2023	Visiting Researcher Bharath University, India	Bharath University, India
4.	2021	Guest Editor for Research Topics for Frontiers of Cellular Neuroscience	Frontiers of Cellular Neuroscience
5.	2021	Examiner for Programme of Biotechnology	MAHSA University, Malaysia
6.	2021-now	Interlaboratory Cell Viability Testing	Cryocord, Malaysia

Student Supervision

PhD (Main Supervisor)

No.	Name	Title	Status
1.	Avin Koh Ee-Hwan	Paracrine effects of transplanted mesenchymal stem cells genetically modified to express erythropoietin on the retinal transcriptome in a rat model of retinal degeneration.	Graduated
2.	Tong Jia-Bei	Meniscus stem cells and photobiomodulation.	Ongoing
3.	Teh Seoh Wei	Stem cells for treatment of cardiac hypertrophy	Ongoing

Master with Thesis (Main Supervisor)

No.	Name	Title	Status
1.	Shirley Ding Suet Lee	Human Mesenchymal Stem Cells Genetically Engineered to Express Erythropoietin Promote Recovery Of Glutamate Excitotoxicity In A Retinal Neuron Cell Line	Graduated
2.	Rusheni Munisvaradass	Human CD3+ T cells with chimeric antigen receptor exhibit efficient targeting and induce apoptosis in Erbb2 overexpressing breast cancer cell	Graduated
3.	Muhammad Muhtadee bin Amran	Stem cells for treatment of kidney disease.	Ongoing
4.	Haarishinny Paramesvaran	Stem cells for treatment of endothelial dysfunction,	Ongoing

Master without Thesis (Main Supervisor)

No.	Name	Title	Status
1.			

Attended Seminars/ Workshops/ Forums both National and International

No.	Year	Title	Organizers
1.	2024	Workshop: Building Networks 2024	EMBO Barcelona, Spain
2.	2024	Mouse Embryonic Stem Cell Workshop 2023	UPM, Malaysia
3.	2023	ISCT2023	International Society for Cellular Therapy (ISCT)
4.	2023	Bengkel Jaminan Kualiti-Latihan Kod Amalan untuk Akreditasi Program, Code of Practice for Programme	MQA, Malaysia



Accreditation, COPPA 2nd Edition, dan Hasil Pembelajaran
Siri 2/2023

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| 5. | 2023 | ICPALM2023 | College of Pathologist
Malaysia |
| 6. | 2023 | 4 th MK FMHS International Conference | UTAR Sungai Long,
Malaysia |

Intellectuals Property			
Patent Granted			
No.	Date	Patent No.	Name
1.	20 October 2020	PI2016701648	Composition for treatment of ocular diseases and preparation thereof: Treatment of ocular disorders using human wharton's jelly mesenchymal stem cells expressing erythropoietin.

Patent Field			
No.	Date	Patent No.	Name
1.	11 October 2019	PI2019006024	The Detection of Leptospirosis in Early Stage by Using Multiplex Droplet Digital PCR (ddPCR).