

CURRICULUM VITAE

Full name: TENGKU AIN FATHLUN BINTI TENGKU KAMALDEN

Authorship/shortened name: TENGKU AIN KAMALDEN

Current position: Associate Professor & Vitreoretinal surgeon

Address: Department of Ophthalmology, Faculty of Medicine, University of Malaya 50603 Kuala Lumpur Malaysia

Email: t.ain.kamalden@ummc.edu.my

Primary telephone: +60379492060

Qualifications

2015 (*ongoing*) Candidate for MSc in Epidemiology, London School of Hygiene and Tropical Medicine, United Kingdom

2014 Fellowship in Medical and Surgical Retina, National University Hospital, Singapore

2012 DPhil (PhD), Green Templeton College, University of Oxford, United Kingdom

2007 Membership of the Royal College of Ophthalmology, United Kingdom (MRCOphth)

2006 Membership of the Royal College of Surgeons of Edinburgh, United Kingdom (MRCSEd)

2006 Master in Ophthalmology, University of Malaya, Kuala Lumpur, Malaysia (Malaysian Ophthalmology Specialist Qualification)

2006 MMed, National University of Singapore, Singapore

2000 Medical Degree (MBBS), University of Malaya, Kuala Lumpur, Malaysia

Professional experience and honors

Appointments

2019-2021 Editor, Journal of Health and Translational Medicine

2015-2019 Head of UM Eye Research Centre (UMERC), Department of

Ophthalmology, Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia

2014- Associate Professor, Department of Ophthalmology
Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia

2013-2014 Clinical Retinal (Medical & Surgical) Fellow, Department of Ophthalmology, National University Hospital Singapore (NUHS)

2006-2014 Lecturer / Senior Lecturer Department of Ophthalmology
Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia

2002-2006 Trainee Lecturer, Department of Ophthalmology
Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia

2000-2002 House & Medical Officer, Hospital Sultanah Aminah Johor Bahru

Reviewer

2018 Environmental Toxicology and Pharmacology

2017 Journal of Cellular and Molecular Medicine

2017 BMC Case Reports

2017 - 2018 Malaysian Journal of Pathology

2014 Malaysian Family Physician Journal

Professional Organizations

2019 Assistant Secretary, Fulbright Alumni Association of Malaysia

2018 Life member, Asia Pacific Ophthalmic Trauma Society

2017 Member, Malaysian Universities Conjoint Committee for Ophthalmology

2017 Member, College of Ophthalmology, Academy of Medicine of Malaysia

2016 Life member, Malaysian Society of Ophthalmology

2016 Life member, Asia Pacific Ophthalmic Trauma Society

2015-2017 Committee members, Malaysian Society of Ophthalmology

Honor and Awards

2020 Bronze Medal Recipient for Leadership Development Program (Class of 2019-2020, Asia Pacific VitreoRetina Society)

2019 Bayer Vision Academy Global Mentorship Program

2019 Asia Pacific Vitreo-Retina Society Leadership Development Program

2018 Fulbright Visiting Research Scholar Program

2013 InterAcademy Medical Panel (IAMP) Young Physician Leader

2013 Bayer Foundation Fellow

2007-2012 Full scholarship (PhD degree), Public Service Department, Malaysia

2002-2006 Full scholarship (Masters degree), Public Service Department, Malaysia

1995-2000 Full scholarship (medical studies), Public Service Department, Malaysia

Research Grants

International

2019 ALCON Research Institute (“ARI”) Young Investigator Grant - PI

2018 BAYER GOAP Research Award - PI

2017 Industry Funding Biorad (Inc) Validation Of Circulating Mirna As Targeted Biomarkers Of Diabetic Retinopathy In A Malaysia Population - PI

National

2017 UM Special Research Fund (PI) Validation Of Circulating Mirna As Targeted

Biomarkers Of Diabetic Retinopathy In A Malaysia Population

2015 UM Postgraduate Research Fund (PI) An Observational, Cross-sectional study to evaluate the effects of Haemodialysis on Anterior Segment Visual Parameters among Diabetic and non-Diabetic patients

2015 UM Postgraduate Research Fund (PI) Normative Data For Inter-canthal And Interpupillary Distances In Malaysian Children Aged 3 To 20

2015 UM Research Grant (PI) Neonatal serum cytokine profile in premature babies of retinopathy of prematurity

2015 UM Research Grant (co-investigator) The Neonatal Crash Cart: Resuscitation Practices In The Neonate, Oxygen Exposure, Inflammation, Sepsis And Their Outcomes

2014 UM Research Grant (PI) Investigation Of The Effects Of Ageing & specific Oxidative Stress In Retinal Cell

2014 UM Research Grant (co-investigator) The Correlation Of Angiogenic Factors With Retinopathy And Nephropathy In Type 2 Diabetes

2013 Ministry of Education of Malaysia’s High Impact Research Grant (PI) To Identify The Predictive Values Of Growth Factors In The Development Of Retinopathy Of Prematurity

2013 Ministry of Education of Malaysia’s High Impact Research Grant (co-investigator) Protection against damage to the eye in a rat model of inherited blindness

2009 UM Research Grant (PI) Normative Values Of Racial Variations I Orbital Structures Revealed By Computed Tomography

Project Collaborations

2017 International Globe and Adnexal Trauma Epidemiology Study (IGATES)

2013 University of Liverpool, UK – University of Malaya Dual PhD Program

Publications

1. A, Choo YM, Lim CT, Martin FJ. Comparative cohorts of retinopathy of prematurity outcomes of differing oxygen saturation: real-world outcomes. *BMJ Open Ophthalmol.* 2021 Mar 8;6(1)
2. Hoskin AK, Low R, Sen P, Mishra C, Kamalden TA, Woreta F, Shah M, Pauly M, Rousselot A, Sundar G, Natarajan S, Keay L, Gunasekeran DV, Watson SL, Agrawal R; for IGATES Study Group - An Asia Pacific Ophthalmic Trauma Society publication.

- Epidemiology and outcomes of open globe injuries: the international globe and adnexal trauma epidemiology study (IGATES). *Graefes Arch Clin Exp Ophthalmol*. 2021 Jun 26.
3. Azanan MS, Chandarasekaran S, Rosli ES, Chua LL, Oh L, Chin TF, Yap TY, Rajagopal R, Rajasuriar R, MacGillivray T, Trucco E, Ramli N, Kamalden TA, Ariffin H. Retinal vessel analysis as a novel screening tool to identify childhood acute lymphoblastic leukemia survivors at risk of cardiovascular disease. *J Pediatr Hematol Oncol*. 2020 (accepted)
 4. Sharif U, Mahmud NM, Kay P, et al. Advanced glycation end products-related modulation of cathepsin L and NF- κ B signalling effectors in retinal pigment epithelium lead to augmented response to TNF α . *J Cell Mol Med*. 2019;23:405–416.
 5. Loke Jy, Ali H, Kamalden TA. Osteopetrosis Craniopathy – A Rare Cause Of Bilateral Compressive Optic Neuropathy And Facial Nerve Palsy. *Postgrad Med J*. 2019
 6. Choo et al. Central corneal thickness changes and horizontal corneal diameter in premature infants. A prospective analysis. *Medicine* (2018) 97:48
 7. Ee CL, Sockalingam S, Kamalden TA.(2018) Acute uveitic glaucoma in ankylosing spondylitis. *Postgraduate Medical Journal*
 8. Zaman Huri H, Chua CH, Mustafa N, Mohamad NF, Kamalden TA. (2018). *Brazilian Journal of Pharmaceutical Sciences* (Article accepted)
 9. Beshay N, Keay L, Dunn H, Kamalden TA, Hoskin AK, Watson SL. The epidemiology of Open Globe Injuries presenting to a tertiary referral eye hospital in Australia. *Injury*. 2017 Apr 18. pii: S0020-1383(17)30263-2. doi: 10.1016/j.injury.2017.04.035. [Epub ahead of print]
 10. Chong KL, Samsudin A, Keng TC, Kamalden TA, Ramli N. Effect of Nocturnal Intermittent Peritoneal Dialysis on Intraocular Pressure and Anterior Segment Optical Coherence Tomography Parameters. *Journal of Glaucoma* 2017;26(2):e37-e40
 11. Kamalden TA, Macgregor-Das AM, Kannan SM, Dunkerly-Eyring B, Khaliddin N, Xu Z, Fusco AP, Yazib SA, Chow RC, Duh EJ, Halushka MK, Steenbergen C, DAS S. Exo-miR-15a Transfer from the Pancreas Augments Diabetic Complications by Inducing Oxidative Stress. *Antioxid Redox Signal*. 2017 Feb 7.
 12. Choo YM, Ahmad Kamar A, Tengku Kamalden TAF, Looi ML, Tan K, Lai NM. Lutein and zeaxanthin for reducing morbidity and mortality in preterm infants. *Cochrane Database of Systematic Reviews* 2016, Issue 5. Art. No.: CD012178. DOI: 10.1002/14651858.CD012178. *Cochrane Database of Systematic Reviews* 2016, Issue 5. Art. No.: CD012178. DOI: 10.1002/14651858.CD012178.
 13. Teh D, Mohamad NF, Lim E, Bin Abu Bakar Z, Narayana P, Kamalden TA. (2016) Endoscopic Transnasal removal of an intraconal foreign

body using an image-guided surgical system. *Computer Assisted Surgery*, 21(1), 25-28.

14. Kamalden T.A., Lingam G., Sundar G. Bone Remodeling in Choroidal Osteoma Monitored by Fundus Photography and Spectral-Domain Optical Coherence Tomography; *Ocul Oncol Pathol* 2015;1:12-17 (DOI:10.1159/000363454)
15. Rhuen Chow, Tengku Kamalden Bilateral Endogenous Endophthalmitis as an Initial Presentation of *Klebsiella pneumoniae* Bacteremia in Advanced Hepatocellular Carcinoma *Ophthalmology Research: An International Journal*, Volume 4, pp 34-40
16. Rhuen Chiou Chow, Chin Tuan Ong, Tengku Ain Kamalden A Rare Case of Periorbital Necrotizing Fasciitis associated with Mortality following Herpes Zoster Ophthalmicus – A Case Report *SEAJCRR*. 2015; 4(4): 1917-1923
17. Mustafa Kassim, Marzida Mansor, Tengku Ain Kamalden, Ina Ismiarti Sharifuddin, Mohd Shahnaz Hassan, Gracie Ong, Shamala Devi Sekaran, Anwar Suhaimi, Naze Al-Abd, Kamaruddin Mohd Yusoff. 2014. Caffeic Acid Phenethyl Ester (CAPE): Scavenger of Peroxynitrite in vitro and in sepsis models. *SHOCK*, Vol 42(2): 154-160
18. Alwin Kumar Rathinam, Nur Adura Yaakup, Tengku Ain Kamalden. Geometrical Approach to Measure Orbital Volume Using a Three Dimensional Biomodel. *IEEE EMBS International Conference on Biomedical Engineering and Sciences*. 2012
19. Patel CK, Berg SJ, Quaghebeur G, Richards P, Kamalden TA, Brennan R, Elliot A, Kafil-Hussain N, Williams C, Worthington V. Ectopic cerebrospinal-like fluid from retrobulbar cysts as a possible cause of pediatric retinal detachment associated with optic disc coloboma: new implications for management. *Arch Ophthalmol*. 2012 Aug 1;130(8):1065-7.
20. Kamalden TA, Ji D, Osborne NN. 2012. Rotenone-induced death of RGC- 5 cells is caspase independent, involves the JNK and p38 pathways and is attenuated by specific green tea flavonoids. *Neurochem Res* 2012;37(5):1091-101
21. Ji D, Kamalden TA, del Olmo-Aguod, Osborne NN. Light and Sodium azide-induced death of RGC-5 cells in culture occurs via different mechanisms. *Apoptosis*, Apr 2011: 16(4); 425-437
22. Kamalden, T. A., Ji, D., Fawcett, R. J., Osborne, N. N. 2011. Genistein Blunts the Negative Effect of Ischaemia to the Retina Caused by an Elevation of Intraocular Pressure. *Ophthalmic Research*
23. Shan H, Ji D, Barnard AR, Lipinski DM, You Q, Lee EJ, Kamalden TA, Sun X, MacLaren RE. AAV-mediated gene transfer of human X-linked inhibitor of apoptosis protects against oxidative cell death in human RPE cells. *Invest Ophthalmol Vis Sci*. 2011 Dec 20;52(13):9591-7.

24. Osborne NN, Kamalden TA, Majid AS, del Olmo-Aguado S, Manso AG, Ji D. Light effects on mitochondrial photosensitizers in relation to retinal degeneration. *Neurochem Res*, Dec 2010;35(12); 2027-34
25. Kamalden TA, Choo MM, Kadir K, Khalddin N. Arterial Occlusion Following Embolization of Orbital Arteriovenous Malformation: A Case Report. *The Neuroradiology Journal*, 2008; 21; 861-864
26. Tengku Kamalden TA, Nurliza K, Haris AR. Sudden visual loss in acute leukaemia. *JUMMEC* 2008;11(1), 30-32
27. Jung SH, Kang KD, Ji D, Fawcett RJ, Safa R, Kamalden TA, Osborne NN. The flavanoid baicalin counteracts ischemic and oxidative insults to retinal cells and lipid peroxidation to brain membranes. *Neurochem Int*, Dec 2008; 53(6-8); 325-37