CURRICULUM VITAE

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Education

Training	Name of School / Institution	Year	Area of Specialization
Postdoctoral Fellow	**Massachusetts General Hospital and Harvard Medical School, Harvard University, Boston, MA** (*With Professor Xandra Owen Breakefield)*	2017-2021	Molecular Neurogenetics, Gene therapy, Extracellular vesicle
Postdoctoral Fellow	**Massachusetts General Hospital and Harvard Medical School, Harvard University, Boston, MA** (*With Professor Eng Lo)*	2016-2017	Stroke
Postdoctoral Fellow	**Centre for Cancer Biology, Australia** (*With Dr. Hayley Ramshaw)*	2009-2010	Cancer Biology
Postdoctoral Fellow	**University of Adelaide, Australia** (*With Professor Paul Q. Thomas)*	2008-2009	Developmental Neurobiology
Ph.D.	**University Kebangsaan Malaysia / National University of Malaysia** (*With Professor Azian Abdul Latif, Professor Norhani Mohidin, Professor Bahariah Mohd Ali*)	2003-2008	Medical Science (Anatomy)
S*Cert.	**S* Life Science Informatics Alliance** *Hosted by the National University of Singapore, Singapore.*	2003	Bioinformatics
B.Sc. (Hons) 1st Class Honours CGPA = 3.829	**Universiti Putra Malaysia, Malaysia** *(With Prof. Rozita Rosli)*	1999-2002	Biomedical Sciences

Update on 18 June 2021

Areas of Interest

1. Molecular neurogenetics and genomics
2. Developmental Neurobiology
3. Cancer Biology
4. Gene therapy

Professional Qualification/ Membership/ Affiliation

Membership type / Position	Society	Date (Duration)
Chair	IBRO Regional Committee Council Member of the International Brain Research Organisation (IBRO)-APRC (Asia Pacific Research Committee)	2021-2023 (3 years)
Representative Member	ISN-NCDC (International Society for Neurochemistry-ISN) – New Career Development Committee	Jan 2020-Dec 2021 (2 years)
Representative Member	ISN-CAEN (International Society for Neurochemistry-ISN) – Committee for Aids and Education in Neurochemistry (CAEN)	Jan 2018-Dec 2019 (2 years)
Member	ASCGT (American Society of Gene and Cell Therapy)	Jan 2012 – Dec 2020
Member	ISEV (International Society of Extracellular Vesicles)	Jan 2012 – Dec 2020
Council Member	IBRO Regional Committee Council Member of the International Brain Research Organisation (IBRO)-APRC (Asia Pacific Research Committee)	2016-2020
Member	Asian-Pacific Society for Neurochemistry (APSN)	Jan 2014 – Dec 2021
Member	ISN (International Society for Neurochemistry)	Jan 2014 – Dec 2021
Council Member	Council of the Asian-Pacific Society for Neurochemistry (APSN)	2014-2018
Vice President	Malaysian Society of Neurosciences (MSN)	2014 – 2016
Advisor	Putra Medical Club (PMC), Faculty of Medicine and Health Sciences, University Putra Malaysia	01.01.2015-01.01.2016
Editorial Board Member	Neuroscience Research Notes (Journal)	01.01.2017-Present
Chair	Basic Neuroscience Chapter, Malaysian Society of Neurosciences (MSN)	12.06.2013-11.06.2015
Editorial Board Member	Editorial Board Member for Neuroscience Reports	13.10.2016-12.10.2019
Editorial Board Member	Editorial Board Member for Archives of Anatomy and Physiology	03.05.2016-Present
Member	Young Scientists Network – Academy of Sciences, Malaysia (YSN-ASM)	2012 – present

Publications

Journals (in 5 years)

1. **Cheah PS**, Prabhakar S, Yellen D, Beauchamp RL, Zhang X, Kasamatsu S, Bronson RT, Kwiatkowski DJ, Anat Stemmer-Rachamimov, György B, Ling KH, Kaneki M, Tannous B, Ramesh V, Maguire CA and Breakefield XO. (2020) Gene therapy for tuberous sclerosis complex type 2 in a mouse model by delivery of AAV9 encoding a condensed form of tuberin. Science Advances. 7(2): eabb1703. https://doi.org/10.1126/sciadv.abb1703

2. Zainal Abidin, S., Lee, H.-C., Abdullah, S., Nordin, N., **Cheah, P.S**. and Ling, K.-H. (2021) "The expression profile of miR-3099 during neural development of Ts1Cje mouse model of Down syndrome", Neuroscience Research Notes, 4(1), pp. 7–15. https://doi.org/10.31117/neuroscirn.v4i1.62.

3. HC Lee, H Hamzah, MPY Leong, H Md Yusof, O Habib, S Zainal Abidin, EA Seth, SM Lim, S Vidyadaran, MA Mohd Moklas, MA Abdullah, N Nordin, Z Hassan, **Cheah PS** & Ling KH. Transient prenatal ruxolitinib treatment suppresses astrogenesis during development and improves learning and memory in adult mice. Scientific Reports. 2021. 11(1):3847. https://doi.org/10.1038/s41598-021-83222-z.

4. Jamal Al Ali, Christine A. Vaine, Shivangi Shah, Lindsey Campion, Ahmad Hakoum, Melanie Leigh Supnet , Gabrielle Aldykiewicz, Trisha Multhaupt-Buell, Niecy G. Ganza-Bautista, John Benedict B. Lagarde, Criscely Go, Benjamin Currall, Bianca Trombetta, Pia Kivisakk Webb, Michael Talkowski, Steven E. Arnold, **Cheah PS**, Naoto Ito, Nutan Sharma, D. Cristopher Bragg, Laurie Ozelius, Xandra O. Breakefield. (2021) TAF1 transcripts and neurofilament light chain as biomarkers for X-linked Dystonia-Parkinsonism. Movement Disorders. 36(1): 206-215. https://doi.org/10.1002/mds.28305

5. Jouha Min, Taehwang Son, Jae-Sang Hong, **Cheah PS**, Andreas Wegemann, Ralph Weissleder, Hakho Lee, Hyungsoon Im. (2020) Plasmon-enhanced biosensing for multiplexed profiling of extracellular vesicles. Advanced Biosystems.. pp. 1-8. https://doi.org/10.1002/adbi.202000003

6. Seth EA, Lee HC, Yusof HH, Nordin Norshariza, Cheah YK, Ho ETW, Ling KH, **Cheah PS**. (2020) Phenotype microarrays reveal metabolic dysregulations of neurospheres derived from embryonic Ts1Cje mouse model of Down syndrome. PLoS One. https://doi.org/10.1371/journal.pone.0236826

7. **Cheah PS**, Ling KH and Ho ETW (2020) From online resources to collaborative global neuroscience research: where are we heading?" *Neuroscience Research Notes*, 3(3), pp. 1-8. https://doi.org/10.31117/neuroscirn.v3i3.51

8. Faris A, **Cheah PS** and Ling KH (2020) Single nucleotide polymorphism of BDNF Val66Met (rs6265) and its association to neuropsychiatric disorders,.(2020) *Neuroscience Research Notes*, 3(3), pp. 9-26. https://doi.org/10.31117/neuroscirn.v3i3.50

9. Damodaran T, **Cheah PS**, Murugaiyah V., Hassan Z. The nootropic and anticholinesterase activities of *Clitoria ternatea* Linn. root extract : potential treatment for cognitive decline. *Neurochemistry International.* 139, page 1-12. Article no. 104785. https://doi.org/10.1016/j.neuint.2020.104785

10. Prabhakar S*, **Cheah PS***, Yellen D, Beauchamp RL, Zhang X, Kasamatsu S, Bronson RT, Kwiatkowski DJ, Anat Stemmer-Rachamimov, György B, Ling KH, Kaneki M, Tannous B, Ramesh V, Maguire CA and Breakefield XO. (2020) Gene therapy for tuberous sclerosis complex type 2 in a mouse model by delivery of AAV9 encoding a condensed form of tuberin. *Science Advances. (in press)*

11. Rahimah Hassan, **Cheah PS**, Sasidharan Sreenivasan, Sharif M Mansor, Christian P. Muller and Zurina Hassan. (2020) Mitragynine attenuates morphine withdrawal effects in rats – a comparison with methadone and buprenorphine. Frontiers in Psychiatry. 11:411. doi: 10.3389/fpsyt.2020.00411

12. Lucero R, Zappulli V, Sammarco A, Murillo OD, **Cheah PS**, Srinivasan S, Tai E, Ting DT, Wei ZY, Roth ME, Laurent LC, Krichevsky AM, Breakefield XO, Milosavljevic A. (2020) Glioma-derived miRNA-containing extracellular vesicles induce angiogenesis by reprogramming brain endothelial cells. *Cell Reports*. 30, 2065-2074.

13. Cruz L György B, **Cheah PS**, Kleinstiver BP, Eimer WA, Aufiero M, Garcia SP, Sharma N, Ozelius LJ, Bragg DC, Joung JK, de Souza ON, Timmers LFSN, Breakefield XO**.** 2020**.** Mutant allele-specific CRISPR disruption in DYT1 dystonia fibroblasts restores cell function. *Molecular Therapy – Nucleic Acids*. 21:1-12.

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14. Srinivasan S, Treacy R, Herrero T, Olsen R, Leonardo TR, Zhang X, DeHoff P, To C, Poling LG, Fernando A, Leon-Garcia S, Knepper K, Tran V, Meads M, Tsarz J, Vuppala A, Park S, Laurent CD, Bui T, **Cheah PS**, Overcash R, Ramos GA, Roeder H, Ghiran I, Parast M, Breakefield XO, Lueth AJ, Rust SR, Dufford MT, Fox AC, Hickok DE, Burchard J, Boniface JJ. Laurent LC,. 2020. Discovery and verification of extracellular miRNA biomarkers for non-invasive prediction of preeclampsia in asymptomatic women. *Cell Reports Medicine*. 1 (2) : 100013.

15. Srinivasan S**,** Yeri A, **Cheah PS**, Chung A, Danielson K, De Hoff P, Filant J, Laurent CD, Laurent LD, Magee R, Moeller C, Murthy VL, Nejad P, Paul A, Rigoutsos I, Rodosthenous R, Shah RV, Simonson B, To C, Wong D, Yan IK, Zhang X, Balaj L, Breakefield XO, Daaboul G, Gandhi R, Lapidus J, Londin E, Patel T, Raffai RL, Sood AK, Alexander RP, Das S, Laurent LC. (2019). Deconvolution analysis of small RNAseq data from exRNAs isolated using different methods reveals multiple carrier subclasses and identifies optimal methods for isolation of total and EV-specific exRNA. *Cell.* 27: 255-268. doi: 10.1016/j.cell.2019.03.024

16. Zaborowski MP, **Cheah PS,** Zhang X, Bushko I, Lee K, Sammarco A, Zappulli V, Maas SLN, Aleen RM, Rumde P, Gyorgy B, Aufiero M, Schweiger MW, Lai CP, Fulci G, Weissleder R, Lee H, Vickers KC, Tannous BA, Breakefield XO. (2019). Membrane-bound *Gaussia* luciferase as a tool to track shedding of membrane proteins from the surface of extracellular vesicles. *Scientific Reports*. 9: 17387. https://doi.org/10.1038/s41598-019-53554-y

17. Aldoghachi, A. F., **Cheah PS**, Ibrahim, N., Lye, M. S. and Ling, KH. (2019) Dopamine transporter 1 (DAT1) rs40184 single nucleotide polymorphism is not associated with the Malaysian major depressive disorder subjects, *Neuroscience Research Notes*, 2(4), pp. 5-13. doi: 10.31117/neuroscirn.v2i4.36.

18. Prabhakar S, **Cheah PS**, Zhang X, Zinter M, Gianatasio M, Hudry E, Bronson RT, Kwiatkowski DJ, Stemmer-Rachamimov A, Maguire CA, Sena-Esteves M, Tannous B, Breakefield XO. (2019) Long-term Therapeutic Efficacy of Intravenous AAV-Mediated Hamartin Replacement in mouse model of tuberous sclerosis type 1. *Molecular Therapy-Methods and Clinical Development*. 15: 18-26. https://doi.org/10.1016/j.omtm.2019.08.003

19. Chan SJ, Niu WT, Hayakawa K, Hamanaka G, Wang XY, **Cheah PS**, Guo SZ, Yu ZY, Arai K, Selim M, Kurisawa M, Spector M, Lo E. (2019). Promoting neuro-supportive properties of astrocytes with epidermal growth factor hydrogels. *Stem Cell Transl. Med. Stem Cell Transl. Med*. 8:1242-1248. http://dx.doi.org/10.1002/sctm.19-0159

20. Abels ER, Maas SLN, Nieland L,Wei ZY, **Cheah PS**, Tai E, Kolsteeg CJ, Dusoswa S, Ting DT, Hickman S, Krichevsky AM, Khoury JE, Krichevsky AM, Broekman MLD, Breakefield XO. (2019) Extracellular transfer of miR-21 contributes to microglia reprogramming in intracranial glioma. *Cell Reports*. 28(12):3105-3119. https://doi.org/10.1016/j.celrep.2019.08.036

21. Zainal Abidin S, Fam SZ, Chong CE, Abdullah S, **Cheah PS**, Nordin N, Ling KH. (2019). miR-3099 promotes neurogenesis and inhibits astrogliogenesis during murine neural development. *Gene*. 697:201-212. doi: 10.1016/j.gene.2019.02.014.

22. Lee HC, Yusof HH, Leong MPY, Zainal Abidin S, Seth EA, Hewitt CA, Vidyadaran S, Nordin N, Scott HS, **Cheah PS**, Ling KH. (2019) Gene and protein expression profiles of JAK-STAT signalling pathway in the developing brain of the Ts1Cje Down syndrome mouse model. *Int J Neurosci.* (IF = 1.848) https://doi.org/10.1080/00207454.2019.1580280

23. Pinkham K, Park DJ, Hashemiaghdam A, Kirov A, Adam I, Rosiak K, da Hora CC, Teng J, **Cheah PS**, Ganguli-Indra G, Kelly A, Indra AK, Badr CE. (2019) Stearoyl CoA Desaturase is essential for regulation of ER homeostasis and tumor growth in glioma stem-like cells. *Stem Cell Reports.* 12: 712-727. https://doi.org/10.1016/j.stemcr.2019.02.012

24. Zaborowski MP, Lee K, Na YJ, Sammarco A, Zhang X, Iwanicki M, **Cheah PS**, Fulci G, Tannous BA, Lai CP, Birrer CP, Weissleder R, Lee H, Breakefield XO. (2019). Systematic identification of membrane proteins for specific capture of cancer-derived extracellular vesicles. *Cell Reports.* 27: 255-268. doi: 10.1016/j.celrep.2019.03.003.

25. Aldoghachi AF, Tor YS, Redzun SZ, Lokman KA, Razaq NAA, Shahbudin AF, Badamasi IM, **Cheah PS**, Stanslas J, Veerakumarasivam A, Rosli R, Ibrahim N, Lye MS, Ling KH. (2019) Screening of brain-derived neurotrophic factor (BDNF) single nucleotide polymorphisms and plasma BDNF levels among Malaysian major depressive disorder patients. *Plos One*. PONE-D-18-30154R1. https://doi.org/10.1371/journal.pone.0211241

26. **Cheah PS**, Mason J. and Ling KH. (2019) Challenges and future perspectives for 3D cerebral organoids as a model for complex brain disorders", *Neuroscience Research Notes*, 2(1), pp. 1-6. doi: 10.31117/neuroscirn.v2i1.28.

27. Lim CL, Bala U, Leong MPY, Ivan YKS, Stanslas J, Ramasamy R, Ling KH, **Cheah PS**. (2019) Perturbed metabolic profiles associated with muscle weakness seen in adult Ts1Cje mouse model of Down syndrome. 2019. *Journal of Japanese Veterinary Research*. 67(1):111-118. http://doi.org/10.14943/jjvr.67.1.111

28. Srinivasan S**,** **Cheah PS**, Danielson K, De Hoff P, Filant J, Laurent CD, Laurent LD, Nejad P, Paul A, Shah RV, Simonson B, To C, Yan IK, Zhang X, Balaj L, Breakefield XO, Das S, Gandhi R, Lapidus J, Patel T, Raffai RL, Sood AK, Laurent LC. (2019). Systematic study of exRNA isolation reveals presence of distinct exRNA carriers. *Journal of Extracellular Vesicles.* 7: 122-123.

29. Bala, U., Leong, M. P.Y., Lim, C. L., Shahar HK, Othman F, Lai, M.I., Ling, K.H, **Cheah PS.** (2018) Ultrastructural study of sciatic nerve in Ts1Cje mouse model for Down syndrome: an implication of peripheral nerve defects in hypotonia. *Neuroscience Research Notes*, 1(2), pp. 1-9. doi: 10.31117/neuroscirn.v1i2.17.

30. Leong, M. P.-Y., Bala, U., Lim, C. L., Rosli, R., **Cheah PS** and Ling, K.-H. (2018) Transcriptomic profiling of skeletal muscles from the Ts1Cje mouse model of Down syndrome suggests dysregulation of trisomic genes associated with neuromuscular junction signaling, oxidative stress and chronic inflammation, *Neuroscience Research Notes*, 1(1), pp.21-41. doi:10.31117/neuroscirn.v1i1.12.

31. Yusof HH, Lee HC, Seth EA, Wu X, Hewitt CA, Scott HS, Cheah PS, Li YM, Chau DM, Ling KH. Expression Profiling of Notch Signalling Pathway and Gamma-Secretase Activity in the Brain of Ts1Cje Mouse Model of Down Syndrome. J Mol Neurosci. 2019 Apr;67(4):632-642. doi: 10.1007/s12031-019-01275-2. Epub 2019 Feb 13. PubMed PMID: 30758748.

32. Lim CL, Bala U, Leong MPY, Stanslas J, Ramasamy R, Ling KH and **Cheah PS**. (2018) Cellular function of satellite cells does not play a role in muscle weakness of adult Ts1Cje mice, *Neuroscience Research Notes*, 1(1), pp. 3-10. doi: 10.31117/neuroscirn.v1i1.6.

33. Zainal Abidin S, Siew WH, Fam SZ, Abdullah S, Nordin N, **Cheah PS**, Ling KH. (2018) Construction and validation of a mammalian expression vector for in utero electroporation study of miR-3099 in the mouse neocortex. *Malaysian Journal of Medicine and Health Sciences*. 14(SP1):20-29. http://www.medic.upm.edu.my/upload/dokumen/2018080309003803_MJMHS_Aug_2018.pdf

34. Faris A, Yusof H, Zainal Abidin S, Habib O, **Cheah PS**, Stanslas J, Ibrahim N, Lye MS, Veerakumarasivam A, Rosli R, Ling KH. (2018) Development and validation of High Resolution Melting assays for high-throughput screening of BDNF rs6265 and DAT1 rs40184. *Malaysian Journal of Medicine and Health Sciences*. 14(SP1):64-71. http://www.medic.upm.edu.my/upload/dokumen/2018080309042108_MJMHS_Aug_2018.pdf

35. Volak A, LeRoy SG, Natasan JS, Park DJ, **Cheah PS**, Maus A, Fitzpatrick Z, Hudry E, Pinkham K, Gandhi S, Hyman BT, Mu D, GuhaSarkar D, Stemmer-Rachamimov AO,Sena-Esteves M, Badr CE and Maguire CA. (2018) Virus vector-mediated genetic modification of brain tumor stromal cells after intravenous delivery. *Journal of Neuro-oncology*. 139(2):293-305. doi: 10.1007/s11060-018-2889-2

36. Usman B, Leong MPY, Lim CL, Hayati KS, Fauziah O, Lai MI, Law ZK, Khairunnisa R, Ohmar H, Ling KH, **Cheah PS**. (2018) Defects in peripheral nerve myelination and nerve conduction velocity, and different muscle fibre-type specificity contribute to muscle weakness in Ts1Cje Down syndrome mouse model. *PLOS One*. 2018;13(5):e0197711. doi: 10.1371/journal.pone.0197711

37. Lim CL, Ling KH, **Cheah PS**. (2018) Isolation, cultivation and immunostaining of single myofibers- an improved approach to study the behaviour of satellite cells. *Journal of Biological Methods*. 5(1):e87. doi: 10.14440/jbm.2018.2192018.

38. **Cheah PS**, Usman B, Ling KH. (2018) Expression of genes involved in the structure and function of skeletal muscles in Ts1Cje mouse model of Down syndrome. *Malaysian Journal of Medicine and Health Sciences.* http://www.medic.upm.edu.my/upload/dokumen/2018080308593902_MJMHS_Aug_2018.pdf

39. Lee KH, Ng YP, **Cheah PS**, Lee CK, Toh MS. (2017) Molecular characterisation of glycation-associated skin ageing: an alternative skin model to study topical anti-glycation activity *in vitro* of a cosmeceutical and pharmaceutical formulation. *British Journal of Dermatology***.** 176: 159-167. doi: 10.1111/bjd.14832

40. **Cheah PS**, Abdullah S, Bahari H, Chau DM, Rahuman MOH, Sumon SH, Khalid M, Mok PL, Nordin N, Tan NJ, Veerakumarasivam A, Ling KH. (2017) IBRO Report. From International Brain Research Organization (IBRO) advocacy seed grant to four imperative resolutions to strengthen neuroscience research in Malaysia. *IBRO Report*, 2:41-46. http://www.sciencedirect.com/science/article/pii/S2451830117300055/pdfft?md5=cc53be4449ae59e7382c27c3d65980e9&pid=1-s2.0-S2451830117300055-main.pdf

41. Zainal Abidin S, Leong JW, Mahmoudi M, Nordin N, Abdullah S, **Cheah PS**, Ling KH. (2017) In silico prediction and validation of Gfap as miR-3099 target in the mouse brain. *Neuroscience Bulletin*. 33(4):373-382. doi: 10.1007/s12264-017-0143-0.

42. Manal F, **Cheah PS**, Ahmad U, M. Nizlan Nasir, Aye AS, Rahim EA, Hussin P, Mahmud R, Fauziah O. (2017) Anatomic Variation in Morphometry of Human Coracoid Process among Asian Population. *BioMed Research International*. Volume 2017, Article ID 6307019, 10 pages

https://doi.org/10.1155/2017/6307019

43. Che Norma MT, Aye AS, Amierul S, Moklas MAM, **Cheah PS**, Fauziah, O. (2016) Unilateral Duplication of Great Saphenous Vein in the Leg – A Cadaveric Case Report. *Journal of International Journal of Life Sciences Research*. 2016. 4 (2): 217-219.

44. Ahmad U, Aye AS, **Cheah PS**, Taib CNM, Moklas MAM, Fauziah, O. (2016) Discovery of anatomic variant of saphenous nerve- from human cadaver dissection. *Journal of Morphological Sciences. 33: 5-7. doi: 10.4322/jms.081514*

45. Mohd-Zin SW, Abdullah NL, Abdullah A, Greene NDE, **Cheah PS**, Ling KH, Yusof H, Marwan AI, Williams SM, York KT, Annuar AA, Abdul-Aziz NM. (2016) Identification of the genomic mutation in Epha4rb-2J mice. Genome**.** 59:339-348. doi:10.1139/gen-2015-0142

46. Leong JW, Abdullah S, Ling KH **Cheah PS**. (2016) Spatiotemporal expression and molecular characterization of miR-344b and miR-344c in the developing mouse brain. *Neural Plasticity***.** Volume 2016 (2016), Article ID 1951250, 16 pages. http://dx.doi.org/10.1155/2016/1951250

47. Abubakar, Selvan A, **Cheah PS,** Abas F, Fakurazi S. (2016) Evaluation of wound healing properties of bioactive aqueous fraction from Moringa oleifera Lam on experimentally induced diabetic animal model. *Drug Design Development and Therapy***.** Volume 2016: 1715-1730. https://dx.doi.org/10.2147/DDDT.S96968

48. Ling KH, Brautigan PJ; Moore S; Fraser R; Melody Leong PY, Leong JW, Zainal Abidin S, Lee HC, **Cheah PS**; Raison JM; Babic M; Young KL; Daish D; Mattiske DM; Mann JR; Adelson DL; Thomas PQ; Hahn CN; Scott HS. (2016) In depth analysis of the Sox4 gene locus that consist of sense and natural antisense transcripts. *Data in Brief*. 282-290. doi:10.1016/j.dib.2016.01.045

49. Ling KH, Brautigan PJ; Moore S; Fraser R; **Cheah PS**; Raison JM; Babic M; Young KL; Daish D; Mattiske DM; Mann JR; Adelson DL; Thomas PQ; Hahn CN; Scott HS. (2016) Derivation of an endogenous small RNA from double-stranded Sox4 sense and natural antisense transcripts in the mouse brain. *Genomics*. 107(2–3):88–99. http://www.sciencedirect.com/science/article/pii/S0888754316300064

50. Lee HC, Tan KL, **Cheah PS**, Ling KH. (2016) Potential role of JAK-STAT signalling pathway in the neurogenic-to-gliogenic shift in Down syndrome brain. *Neural Plasticity*. Volume 2016, Article ID 7434191, 12 pages. http://dx.doi.org/10.1155/2016/7434191.

51. **Cheah PS,** Thomas P. (2015) Sox3 expression in the glial system of the developing and adult mouse cerebellum. *SpringerPlus*. 4:400. DOI: 10.1186/s40064-015-1194-1.

52. Hoo MF, N Ferdaos, SN Hamzah, N Ridzuan, S Abdullah, R Ramasamy, **Cheah PS**, Karrupiah Thilakavathy MNY, N Nordin. (2015) Rat Full Term Amniotic Fluid Harbors High Potency Stem Cells. *Research in Veterinary Science*. 102:89-99. doi:10.1016/j.rvsc.2015.07.010.

53. Zainal Abidin S, Tan EL, Azmin S, Chan SC, Jaafar A, Alex XL, Mohd Hamdi Noor, Murad NAB, Razy NFP, Annuar AA, Lim SY, **Cheah PS**, Ling KH and Ibrahim NM. (2015) DRD and GRIN2B polymorphisms and their association with the development of impulse control behaviour among Malaysian Parkinson's disease patients. *BMC Neurology*. 15:59. doi:10.1186/s12883-015-0316-2

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55. Kura AM, Saifullah B, **Cheah PS**, Zobir MH, Azmi N, Fakurazi S. (2015) Acute Oral Toxicity and Biodistribution Study of Zinc Aluminium-Levodopa Nanocomposite. *Nanoscale Research Letters*. 10:105. doi: 10.1186/s11671-015-0742-5.

Chapter in Books (If any)

1. HC Lee, KL Tan, **Cheah PS** and KH Ling. (2020) JAK/STAT signalling pathway and gliosis in neuroinflammatory diseases. In: JAK-STAT Signaling in Diseases (Ed. Ritobrata Goswami). 1st Edition. Publisher: CRC Press, Boca Raton. pp 83-102. ISBN 9781351042468. https://doi.org/10.1201/9781351042468

2. **Cheah PS**, Tan NJ, Mok PL, Leong PY, Ling KH. (2016) Little Man Inside Us. In: Nature's Yield and Wonders of Art (NYAWA)16: Brain. University Putra Malaysia, Serdang, Selangor, pp. 28-31. ISBN 9789679604153.

3. **Cheah PS**, Tan NJ, Vidyadaran S, Nordin N, Baharuddin MN, Lim CL, Seth E, Ling KH. (2016) Alzheimer's Brain Changes. In: Nature's Yield and Wonders of Art (NYAWA)16: Brain. University Putra Malaysia, Serdang, Selangor, pp. 32-35. ISBN 9789679604153.

4. **Cheah PS**, Fauziah O., Bala U, Wong JY, Ling KH. (2016) The Master Hat. In: Nature's Yield and Wonders of Art (NYAWA)16: Brain. University Putra Malaysia, Serdang, Selangor, pp. 24-27. ISBN 9789679604153.

5. **Cheah PS**. (2016) smART Brain. In: Nature's Yield and Wonders of Art (NYAWA)16: Brain. University Putra Malaysia, Serdang, Selangor, pp. 20-23. ISBN 9789679604153.

6. **Cheah PS**. (2016) Brain Science: Inside Out. In: Nature's Yield and Wonders of Art (NYAWA)16: Brain. University Putra Malaysia, Serdang, Selangor, pp. 10-16. ISBN 9789679604153.

7. **Cheah PS**. (2016) Editorial. In: Nature's Yield and Wonders of Art (NYAWA)16: Brain. University Putra Malaysia, Serdang, Selangor, pp. 2-5. ISBN 9789679604153.

8. Fauziah, O.; Che NMT.; Mohamad AMM.; **Cheah PS**, Siti KA.; Nizar AM.; Mohamad THB.; Nurul HMZ.; Aye AS.; Si ST.; Farhatani M. 2013. Eksplorasi Tubuh Manusia. First print. UPM Press. ISBN : 978-967-344-378-9.

9. **Cheah PS**, Khin TZ, Che NMT, Fauziah O. 2012. Student's Workbook for Medical Histology. First print. UPM Press. ISBN : 978-967-344-297-3.

Research Grants

Role / Quantum of funding	Title	Awarding authority (Duration)	Status / Outcome
Innovation Grants to Nurture Initial Translational Efforts (IGNITE Program), by National Institute of Neurological Disorders and Stroke (NINDS) – R61; **1 R61 NS108232-01A1** **(Research Associate)**	Gene therapy for tuberous sclerosis (Principal Investigator: Professor Xandra Breakefield, Associate Professor Casey Maguire and Professor Vijaya Ramesh, from Massachusetts General Hospital, MGH, USA)	**NINDS IGNITE PROGRAM, USA**	**On-going**
Gilbert Gene Therapy Initiative (GGTI) **(Research Associate)**	Multipronged approach to development of NF1 gene therapeutics (Principal Investigators: Miguel Sena-Esteves from University of Massachusetts & Professor Xandra Breakefield, MGH, HMS, USA)	**Gilbert Family Foundation, USA**	**On-going**
FRGS **(Co-investigator)** **RM 185,200** **FRGS/1/2020/SKK06/UPM/02/2**	Molecular mechanism of *Centella asiatica*-enriched Exosomes in Mediating Neural Stem Cell activity in vitro: A fundamental understanding	**Ministry of Higher Education (24 months, 2021-2023)**	**On-going**

	towards cell free therapy for brain diseases		
Journal Publication Empowerment Initiatives Year 2020 **(Principal investigator)** **RM 6,844.36**	Journal Publication Strengthening Initiative offered by Office of the Deputy Vice Chancellor (Research & Innovation), Universiti Putra Malaysia	**Universiti Putra Malaysia (1 year, March 2021-2022)**	**On-going**
Congressionally Directed Medical Research Programs (CDMRP) **Award number : W81XWH-16-1-0134** **(Research Associate)** **USD 243,037.00**	Systemic gene therapy for Tuberous Sclerosis Exploration-Hypothesis Development Award (Principal Investigator : Professor Xandra Breakefield, MGH, HMS, USA)	**Department of Defense, USA. Fiscal Year 2015**	**Completed**
FRGS **(Co-investigator)** **RM 50,000**	Molecular, metabolomics and cellular characterization of kidney development in alpha and beta thalassaemia transgenic mouse	**Ministry of Higher Education (24 months, 2018-2020)**	**Completed**
Geran Putra IPS **UPM/700-2/1/GP-IPS/2017/9540800** **(Co-investigator)** **RM20,000**	Identification and validation of a novel human orthologue for *miR-3099* known as mds21	Universiti Putra Malaysia **(July, 2017-2018)**	**Completed**
Sciencefund **02-01-04-SF2336** **(Co-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** **(Principal 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**
Geran Putra IPS **UPM/700-2/1/GP-IPS/2014/9448800** **(Principal 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 (Grant Research University – IPB - Berkumpulan **(Co-investigator)** **RM470,000**	Protein and gene expression profile of skeletal muscles in Ts1Cje Mouse Model of Down Syndrome: an insight to muscle weakness	Universiti Putra Malaysia **(36 months, 2014-2017)**	**Completed**
Geran Putra IBT **UPM/700/2/1/GP-IBT/2013/9409500** **(Principal 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** **(Principal 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**
RUGS **04-02-12-2102RU** **(Co-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** **(Co-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** **(Co-investigator)** **RM81,100**	A mouse embryonic stem cell culture system with stable and regulatable expression for a novel microRNA, miR3099: An *in vitro* approach towards functional genomic study	**Ministry of Higher Education, MOHE (2012-2015)**	**Completed**
Science Fund **(Principal investigator)**	Establishment of the first "super electroporator" platform in Malaysia for	Ministry of Science,	**Completed**

RM263,600	the delivery ofbicistronic expression vectors with shRNA and GFP open reading frames into the cerebral cortex of mouse model for Down syndrome.	Technology and Innovation (MOSTI) (May, 2012-2014)	
ERGS **ERGS/1/11/SKK/UPM/03/1** **(Principal investigator)** **RM119,000**	*In vivo* analysis of a novel miRNA, 1181, during mouse cerebral corticogenesis using *in utero* electoporation (IUE) approach	Ministry of Higher Education, MOHE **(2011-2014)**	**Completed**
RUGS 04-01-11-1163RU **(Principal 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**

Awards/ Recognition (Current)

Name of awards (Descriptions)	Awarding authority	Type / Significance	Year
First Runner Up*Best Practices of Teaching and Learning Innovation Competition 2016, UPM.*	Center for Academic Development (CADe), UPM	**Academic/ University**	**2016**
First Prize - Best Oral Presentation *(Tan KL, Lee HC, Ling KH, Scott H, Lai MI, Vidyadaran S, and **Cheah PS**. Disrupted interferon-related molecular networks and the over-expressed Ifnar1 in the brain of adult Ts1Cje mouse model of Down syndrome. 18-21 , August, 2016, Asian & Oceanian Congress of Neurology (AOCN 2016), at Kuala Lumpur Convention Center, Kuala Lumpur, Malaysia)*	Asian & Oceanian Association of Neurology (AOCN) & Malaysian Society of Neurosciences (MSN)	**Research / International**	**2016**
Travel Award – BNC-MSN Education Grant Award *(**Tan KL**, Lee HC, Ling KH, Scott H, Lai MI, Vidyadaran S, and **Cheah PS**. Disrupted interferon-related molecular networks and the over-expressed Ifnar1 in the brain of adult Ts1Cje mouse model of Down syndrome. 14th Meeting of Asian Pacific Society of Neurochemistry. 27-30 August 2016, at Hotel Istana, Kuala Lumpur, Malaysia)*	Malaysian Society of Neurosciences (MSN)	**Research / National**	**2016**
Travel Award – BNC-MSN Education Grant Award *(**Tan KL**, Lee HC, Ling KH, Scott H, Lai MI, Vidyadaran S, and **Cheah PS**. Disrupted interferon-related molecular networks and the over-expressed Ifnar1 in the brain of adult Ts1Cje mouse model of Down syndrome. 2-6 July 2016, 10th FENS, Copenhagen, Denmark)*	Malaysian Society of Neurosciences (MSN)	**Research / National**	**2016**
Travel Award – BNC-MSN Education Grant Award *(**Shahidee ZA**, Leong JW, Nordin N, Abdullah S, **Cheah PS** dan Ling KH. Embryonic Stem Cell Culture System with Stable and Regulatable Expression miR-3099: An In Vitro Approach Towards Functional Genomics Study. 2-6 July 2016, 10th FENS, Copenhagen, Denmark)*	Malaysian Society of Neurosciences (MSN)	**Research / National**	**2016**
Postgraduate Travel Grant – APSN *(**Lee HC**, Nordin N, Vidyadaran S, **Cheah PS** dan Ling KH. The Potential Role of JAK-STAT Signalling Pathway Promotes Neurogenic-to-Gliogenic Shift In the Brain of Ts1Cje Mouse Model for Down syndrome, 14th Meeting of Asian Pacific Society of Neurochemistry. 27-30 August 2016, at Hotel Istana, Kuala Lumpur, Malaysia)*	Asian-Pacific Society for Neurochemistry (APSN)	**Research / International**	**2016**
Postgraduate Travel Grant – APSN *(**Shahidee ZA**, Leong JW, Nordin N, Abdullah S, **Cheah PS** dan Ling KH. A Mouse Embryonic Stem Cell Culture System with Stable and Regulatable Expression miR-3099: An In Vitro Approach Towards Functional Genomics Study, 14th Meeting of Asian Pacific Society of Neurochemistry. 27-30 August 2016, at Hotel Istana, Kuala Lumpur, Malaysia)*	Asian-Pacific Society for Neurochemistry (APSN)	**Research / International**	**2016**

IBRO/PERC International Travel Grant *(Lee HC; Nordin N., Vidyadaran S; **Cheah PS**, Ling KH. The potential role of Jak-Stat signalling pathway promotes gliogenesis in the brain of Ts1Cje mouse model for Down syndrome, 39th Annual Meeting of the Japan Neuroscience Society in Japan, 20th to 22nd July 2016, Japan)*	International Brain Research Organisation (IBRO)	**Research / International**	**2016**
IBRO/PERC International Travel Grant *(**Tan KL**, Lee HC, Ling KH, Scott H, Lai MI, Vidyadaran S, and **Cheah PS**.* *Disrupted interferon-related molecular networks and the over-expressed Ifnar1 in the brain of adult Ts1Cje mouse model of Down syndrome. 2-6 July 2016, 10th FENS, Copenhagen, Denmark)*	International Brain Research Organisation (IBRO)	**Research / International**	**2016**
Best Young Lecturer Award *An award by the Faculty of Medicine & Health Sciences (FMHS), Universiti Putra Malaysia in conjunction with the Faculty Excellence Month 2015, 26-27th August 2015*	Faculty of Medicine and Health Sciences, UPM	**Academic/ University**	**2015**
First Prize - Best Poster Presentation *(M.P.Y.Leong, U. Bala, R. Rosli, **Cheah PS** & Ling KH. Targeted differential gene expression profiling of skeletal muscles isolated from Ts1Cje mouse model for Down Syndrome". 26th Annual Scientific Meeting of Malaysian Society of Neurosciences. 5th – 7th June 2015, at the Weil Hotel, Ipoh, Perak.)*	Malaysian Society of Neurosciences	**Research / National**	**2015**
Third Prize - Best Poster Presentation *(Leong J.W., S. Abdullah, Ling KH & **Cheah PS**. Spatiotemporal expression profiling and molecular characterisation of miR-344b and miR-344c in the developing mouse brain. 26th Annual Scientific Meeting of Malaysian Society of Neurosciences. 5th – 7th June 2015, at the Weil Hotel, Ipoh, Perak.)*	Malaysian Society of Neurosciences (MSN)	**Research / National**	**2015**
First Prize - Best Poster Presentation (PhD – Integrative and Clinical Sciences) *(U.Bala, O. Fauziah, M.I. Lai, Ling KH **& Cheah PS**. Ts1Cje mouse model for Down syndrome exhibits motor function deficit, the potential role of skeletal muscles and peripheral nervous system. Faculty Excellence Month 2015, 26-27th August 2015, Faculty of Medicine & Health Sciences (FMHS), Universiti Putra Malaysia.)*	Faculty of Medicine and Health Sciences, UPM	**Research / Institute**	**2015**
First Prize - Best Poster Presentation (MSc –Clinical Sciences) *(C.L. Lim, Ramasamy, R., J.Stanslas., Ling KH **& Cheah PS**. Evaluation of satellite cells number in Down Syndrome skeletal muscle. Faculty Excellence Month 2015, 26-27th August 2015, Faculty of Medicine & Health Sciences (FMHS), Universiti Putra Malaysia.)*	Faculty of Medicine and Health Sciences, UPM	**Research / Institute**	**2015**
First Prize - Best Poster Presentation (MSc – Integrated Sciences) *(M.P.Y. Leong, U.Bala, R. Rosli, **Cheah PS** & Ling KH. Targeted differential gene expression profiling of skeletal muscles isolated from Ts1Cje mouse model for Down Syndrome. Faculty Excellence Month 2015, 26-27th August 2015, Faculty of Medicine & Health Sciences (FMHS), Universiti Putra Malaysia.)*	Faculty of Medicine and Health Sciences, UPM	**Research / Institute**	**2015**
First Prize - Best Poster Presentation (MSc – Integrated Sciences) *(M.P.Y. Leong, U.Bala, R. Rosli, **Cheah PS** & Ling KH. Targeted differential gene expression profiling of skeletal muscles isolated from Ts1Cje mouse model for Down Syndrome. 26th Annual Scientific Meeting of Malaysian Society of Neurosciences. 5th – 7th June 2015, at the Weil Hotel, Ipoh, Perak, Malaysia).*	Malaysian Society of Neurosciences (MSN)	**Research / National**	**2015**

Second Prize - Best Poster Presentation *(C.L. Lim, Ramasamy, R., J.Stanslas., Ling KH **& Cheah PS**. Evaluation of satellite cells number in Down Syndrome skeletal muscle. 26th Annual Scientific Meeting of Malaysian Society of Neurosciences. 5th – 7th June 2015, at the Weil Hotel, Ipoh, Perak, Malaysia).*	Malaysian Society of Neurosciences (MSN)	**Research / National**	**2015**
Third Prize - Best Poster Presentation *(Leong J.W.,* S. Abdullah, Ling KH & **Cheah PS**. Spatiotemporal expression profiling and molecular characterisation of miR-344b and miR-344c in the developing mouse brain*. 26th Annual Scientific Meeting of Malaysian Society of Neurosciences. 5th – 7th June 2015, at the Weil Hotel, Ipoh, Perak, Malaysia).*	Malaysian Society of Neurosciences (MSN)	**Research / National**	**2015**
IBRO Travel Sponsorship *(Travel Award to attend the 1st IBRO-APRC Global Advocacy at the Tata Fundamental Research Institute (TFRI), Mumbai, India from 2-4th Feb. 2015)*	International Brain Research Organisation (IBRO)	**Research / International**	**2015**
Best Pre-clinical Lecturer Award An award by the students of Doctor of Medicine Programme for Year 2014/2015.	Putra Medical Club	**Academic / Institute**	**2015**
Silver medal award - PRPI UPPM 2014 (Invention, Research and Innovation Exhibition) ***(**Kura AU, Hussein MZ, Arulselvan P, **Cheah PS**, Mohd'ain N, Fakurazi S. Efficient controlled released anti parkinsonian nanodrug delivery system intercalated with levodopa)*	Universiti Putra Malaysia	**Research / University**	**2014**
Gold Award – The Tokuji Ikenaka Prize for Best Poster Presentation *(Tan KL, HC Lee, K-H Ling, CA Hewitt, HS Scott, MI Lai, V Sharmili, **Cheah PS**. Overexpressed interferon alpha or beta receptors in the brain of adult Ts1Cje mouse model of Down syndrome, 13th Meeting of Asian Pacific Society of Neurochemistry. 22-26 August 2014, Howard Plaza Hotel, Kaohsiong, Taiwan)*	Asian-Pacific Society for Neurochemistry (APSN)	**Research / International**	**2014**
First Prize - Best Poster Presentation *(Shahidee ZA, J. Ameerah, SC Chan, AX Lee, MH Noor, SY LIM, AA Azlina, **Cheah PS**, KH Ling & MI Norlinah. Analysis of DRDS & GRIN2B genes polymorphisms and their association with the development of impulse control disorder among Malaysian Parkinson's disease patients. Neuroscience Conference 2014. 20-22 June 2014, at the Berjaya Times Square Hotel, Kuala Lumpur, Malaysia).*	Malaysian Society of Neurosciences (MSN)	**Research / National**	**2014**
First Prize - Best Poster Presentation (Special Neuroscience Awards) *(Leong J.W., S. Abdullah, Ling KH & **Cheah PS**. Spatiotemporal expression profiling and molecular characterisation of miR-344b in the developing mouse brain. Research Week, Faculty of Medicine & Health Sciences, UPM. 25th – 26th June 2014, at the Faculty of Medicine & Health Sciences, UPM*	Faculty of Medicine and Health Sciences, UPM	**Research / Institute**	**2014**
Third Prize - Best Poster Presentation (Special Neuroscience Awards) *(HC Lee, **Cheah PS**, N Nordin, S Vidyadaran & KH Ling. Expression patterns of Jak-Stat signalling pathway in the developing brain of Ts1Cje mouse model. Research Week, Faculty of Medicine & Health Sciences, UPM. 25th – 26th June 2014, at the Faculty of Medicine & Health Sciences, UPM*	Faculty of Medicine and Health Sciences, UPM	**Research / Institute**	**2014**
Second Prize - Best Poster Presentation (Health Sciences Category)	Faculty of Medicine and	**Research / Institute**	**2014**

*(U.Bala, O. Fauziah, M.I. Lai, Ling KH **& Cheah PS**. Ts1Cje mouse model for Down syndrome exhibits motor function deficit, an implication of the peripheral nervous system. Research Week, Faculty of Medicine & Health Sciences, UPM. 25th – 26th June 2014, at the Faculty of Medicine & Health Sciences, UPM*	Health Sciences, UPM		
Third Prize - Best Poster Presentation (Health Sciences Category) *(Lim CL, Ramasamy R, Ling KH **& Cheah PS**. Isolation and Culture of Single Myofibers - An Approach to Analyze Satellite Cells. Research Week, Faculty of Medicine & Health Sciences, UPM. 25th – 26th June 2014, at the Faculty of Medicine & Health Sciences, UPM*	Faculty of Medicine and Health Sciences, UPM	**Research / Institute**	**2014**
Third Prize - Best Poster Presentation (Clinical/Medical Sciences Category) *(Shahidee ZA, J. Ameerah, SC Chan, AX Lee, MH Noor, SY LIM, AA Azlina, **Cheah PS**, KH Ling & MI Norlinah. Analysis of DRDs and GRIN2B genes polymorphisms and their association with the development of impulse control disorder among Malaysian Parkinson's disease patients. Research Week, Faculty of Medicine & Health Sciences, UPM. 25th – 26th June 2014, at the Faculty of Medicine & Health Sciences, UPM*	Faculty of Medicine and Health Sciences, UPM	**Research / Institute**	**2014**
BNC-MSN (Education Grant Awards) *(Travel Award to attend the Visit to National Neuroscience Institute, Singapore and National University Singapore, scheduled for June 12-14th, 2014)*	Malaysian Society of Neurosciences (MSN)	**Research / National**	**2014**
Champion for Clinical Presentation National Anatomy & Pathology Summit (NAPS), 17th May 2014,For the presentation of "Circle of Willis"(Advisor)	AMSA (Asian Medical Student Association)	**Academic / National**	**2014**
Excellence Service Certification *(For excellence service provided in the year 2013 at the Faculty of Medicine and Health Sciences, Universiti Putra Malaysia)*	Universiti Putra Malaysia	**Profession / University**	**2014**
1st runner up - Best 10 Researchers Award *(For excellence research publications for the year 2013, in conjunction with 2nd Research Week of the Faculty of Medicine and Health Sciences (FMHS), UPM. 18th – 19th June 2013.)*	Faculty of Medicine and Health Sciences, UPM	**Research / Faculty**	**2013**
First Prize - Best Poster Presentation Award (Postgraduate Category) *(Hoo MF, Ferdaos N, **Cheah PS**, Abdullah S, Ramasamy R & Nordin N. Unravelling the Neurogenic Capacity of Rat Full Term Amniotic Fluid Stem Cells (AFSCs). 2nd Research Week of the Faculty of Medicine and Health Sciences (FMHS), UPM. 18th – 19th June 2013.*	Faculty of Medicine and Health Sciences, UPM	**Research / Faculty**	**2013**
Best Publication Award *(24th Annual Scientific Meeting of Malaysian Society of Neurosciences. 14th - 16th June 2013, Pullman Kuching Hotel, Sarawak)*	Malaysian Society of Neurosciences (MSN)	**Research / National**	**2013**
First Prize - Best Poster Presentation Award *(Tan KL, Ling KH, Hewitt CA, Scott H, **Cheah PS**. Disrupted interferon-induced Jak-Stat signaling pathway in postnatal brain of Ts1Cje mouse model of Down syndrome. 24th Annual Scientific Meeting of Malaysian Society of Neurosciences. 14th - 16th June 2013, Pullman Kuching Hotel, Sarawak)*	Malaysian Society of Neurosciences (MSN)	**Research / National**	**2013**
Best Poster Presentation Award (Neuroscience Student Award 2013) *(Hoo MF, Ferdaos N, **Cheah PS**, Abdullah S, Ramasamy R & Nordin N. Unravelling the Neurogenic Capacity of Rat Full Term Amniotic Fluid Stem Cells (AFSCs). 3rd Annual Neuroscience Seminar. 11th June 2013. Faculty of Medicine and Health Sciences (FMHS), UPM.*	Malaysian Society of Neurosciences (MSN)	**Research / National**	**2013**

1st Prize - Best Poster Presentation Award (Life Science Category) *(Hoo MF, Ferdaos N, **Cheah PS**, Abdullah S, Ramasamy R & Nordin N. Differentiation of High Potency Rat Full Term Amniotic Fluid Stem Cells (AFSCs) into Ectodermal and Mesodermal Lineages. 22nd Scientific Conference Microscopy Society of Malaysia (MSM2013). Primula Beach **Resort Kuala Terrenganu, 26-28th Nov 2013.***	Microscopy Society of Malaysia (MSM)	**Research / National**	**2013**
Best Photo Micrograph (Light and Confocal Microscope) *(Hoo MF, **Cheah PS**, Abdullah S, Ramasamy R & Nordin N. Colorful Dancing Ribbons: A savior to Parkinson's* *Disease. 22nd Scientific Conference Microscopy Society of Malaysia (MSM2013). Primula Beach Resort Kuala Terrenganu, 26-28th Nov 2013.*	Microscopy Society of Malaysia (MSM)	**Research / National**	**2013**
BNC-MSN Education Grant Award *(Travel Award to attend the 24th Annual Scientific Meeting of Malaysian Society of Neurosciences. 14th - 16th June 2013, Pullman Kuching Hotel, Sarawak)*	Malaysian Society of Neurosciences (MSN)	**Research / National**	**2013**
FAONS 2013 – Student Travel Award) *(Hoo MF, Ferdaos N, Cheah PS, Abdullah S, Ramasamy R & Nordin N. Neurogenic Differentiation of Rat Full Term Amniotic Fluid Stem Cells (AFSCs)". FAONS Symposium & ANS 2013. Melbourne Convention and Exhibition Centre, Australia, 3rd to 6th February 2013.*	FAONS (Federation of Asia Oceania Neuroscience Societies)	**Research / International**	**2013**
Best Pre-clinical Lecturer Award An award by the students of Doctor of Medicine Programme for Year 2012/2013.	Putra Medical Club	**Academic / Institute**	**2013**
Excellence Service Certification *(For excellence service provided in the year 2012 at the Faculty of Medicine and Health Sciences, Universiti Putra Malaysia)*	Universiti Putra Malaysia	**Profession / University**	**2013**
Best Poster Presentation Award *(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)*	Tissue Engineering Society of Malaysia	**Research / National**	**2012**
IBRO-SfN Travel Grant *(One of the 29 recipients in Asia selected for the grant to attend SfN AGM 2012 in New Orleans, USA)*	International Brain Research Organisation	**Research / International**	**2012**
2nd Runner-up – Best Research Paper Award ***(**Lim, HW; Teh, JL: Ho. SY; Wong, WQ; Ng, HM; Goo, ZQ; Elayne Kuek K Wan, JK Assessing Disaster Preparedness Knowledge, Attitudes and Practices Among Medical Students. (Principal Project Supervisor). 26th East Asian Medical Student Conference 2012 Scientific Paper Competition , Tokyo, Japan, 26-30, December, 2012)*	AMSA (Asian Medical Student Association)	**Research / International**	**2012**
2nd Runner-up for Best Poster Presentation *(W.H. Siew, S. Abdullah, **Cheah PS** & K.H.Ling.. Construction and validation of an expression vector for miR-3099 for in utero electroporation into the developing mouse cerebral cortex. International Neuroscience Symposium 2012. 23rd – 25th June 2012 held in University Malaysia Sabah, Sabah.*	University Malaysia Sabah, Brain Research Institute Monash Sunway and NeuroMalaysia Society.	**Research / International**	**2012**
Best 10 Researchers Award	Faculty of Medicine and Health Sciences, UPM	**Research / Faculty**	**2012**

(For excellence research publications for the year 2012, in conjunction with Research Week of the Faculty of Medicine and Health Sciences (FMHS), UPM. June 2012.)			
Best Poster Presentation (Life Sciences) *(Nordin N., Hoo MF, **Cheah PS**, Ramasamy R, & Abdullah S. The essentiality of leukemia inhibitory factor (LIF) in maintaining the pluripotency of full term rat amniontic fluid stem cells. 20th Scientific Conference of Microscopy Society of Malaysia (EMSM 2011)* *20-22 December 2011.*	Electron Microscopy Society of Malaysia (EMSM)	**Research / National**	**2011**
1st Prize - Pre-EAMSC2012 Scientific Poster Competition Lim, HW; Cheah YJ & Sip, PC. Pandemic Influenza A (H1N1) in 2009 (as advisor)	AMSA (Asian Medical Student Association)	**Academic / National**	**2011**
1st Prize - World Breastfeeding Week Essay Competition Lim, HW (as advisor)	AMSA (Asian Medical Student Association)	**Academic / National**	**2011**
Silver medal award - UKM Research & Innovation Expo *(Norhani Mohidin, Bariah Mohd Ali, Zainora Mohammed, Haliza Abd. Mutalib, Azian Abd. Latiff, **Cheah PS** & A.S. Santhana Raj. Control myopia with orthokeratology (OK) lenses.*	University Kebangsaan Malaysia (UKM)	**Research / University**	**2006**
UPM Scholarship *(For pursuing PhD degree at the University Kebangsaan Malaysia & National University of Malaysia, Selangor, Malaysia)*	Universiti Putra Malaysia	**Academic / University**	**2003 - 2008**
National Fund for Higher Education Scholarship *(National Fund for Higher Education Scholarship in recognition of first class honours achievement)*	National Higher Education Fund Corporation, Malaysia	**Academic / National**	**2003**
Academic Excellence Award *(Academic Excellence Award Year 2003 In recognition of outstanding scholastic achievement & excellence, KOJADI (Koperasi Jayadiri Malaysia Berhad), The Premier Education Loan Provider)*	KOJADI (Koperasi Jayadiri Malaysia Berhad)	**Academic / National**	**2003**
Bronze medal award - UPM 2002 R&D Exhibition *(Rozita R, **Cheah PS**, Shaban A, Nurmawati S, Norshariza N, Karen C and Peter P. The effect of elected compounds on the expression of oncogenes in human breast cancer and human malignant glioma cell lines in vitro. UPM)*	University Putra Malaysia (UPM)	**Research / University**	**2002**

Student Supervision

As Main Supervisor (or Chairman of the Supervisory Committee) in UPM

Degree	Name of candidates	Research / Thesis title	Candidature (Status)
Ph.D. *(Guidance committee)*	Thomas van Solinge [The Leiden University Medical Centre (**LUMC**), the Netherlands]	The effect if brain tumor-derived extracellular vesicles on the tumor microenvironment	2020- **(ongoing)**
Ph.D. *(Guidance committee)*	Erik Abels	Intercellular communication between glioma and innate immune cells.	2015-2020 **(Graduated)**

	[The Leiden University Medical Centre (**LUMC**), the Netherlands]		
M.Sc.	Eryse Seth (GS47594 – Neuroscience)	Metabolic profiling of neurospheres derived from embryonic cerebral cortex of Ts1Cje mouse model for Down syndrome	2015-2019 **(Graduated)**
M.Sc.	Lim Chai LIng (GS39382 – Neuroscience)	Molecular, metabolic and functional characterization of adult skeletal muscle in Down syndrome mouse model : insights into the muscle weakness seen in human condition	2013-2017 **(Graduated)**
Ph.D.	Usman Bala (GS36060 – Neuroscience)	Identification of molecular mechanism responsible for hypotonia in adult Ts1Cje mouse model of Down Syndrome.	2013-2016 **(Graduated)**
Ph.D.	Tan Kai Leng (GS30462 – Neuroscience)	The identification of disrupted molecular networks involved in brain maturation and function in the Ts1Cje mouse model of Down Syndrome	2011-2016 **(Passed with distinction)**
M.Sc.	Leong Jia Wen (GS33570 – Neuroscience)	Molecular characterization of novel miRNAs in the developing mouse brain	2012-2016 **(Graduated)**

As Co-Supervisor (or Member of the Supervisory Committee) in UPM			
Degree	**Name of candidates**	**Research / Thesis title**	**Candidature (Status)**
	MASTER CANDIDATES		
M.Sc.	Nur Amina Syarina binti Pauzi (GS27376 – Biotherapeutics)	Effects of blue-green microalgae compound on incision wound healing in diabetic rats	2010-2014 **(Graduated)**
M.Sc.	Chitra Sathe (GS27376 – Biotherapeutics)	Effects of blue-green microalgae compound on incision wound healing in diabetic rats	2010-2014 **(Graduated)**
M.Sc.	Manal Fathi (GS30785-Anatomy)	Anatomical and radiological study of human coracoid process of the scapula in Anatomy Dissection Hall, UPM and Hospital Serdang	2013-2017 **(Graduated)**
	PHD CANDIDATES		
Ph.D.	Fatin Hannani binti Zakaria (GS44816 – Medical Biotechnology)	Thmoquinone-loaded nanostructured lipid carrier as a potential drug candidate for management of Alzheimer's disease and other neurodegenerative diseases	2015 – Present **(on going)**
Ph.D.	Hoo Mun Fun (GS28981 – Stem Cell)	Differentiation potential of full term rat amniotic fluid stem (AFs) cells into neural lineage	2012-2016 **(Gaduated)**
Ph.D.	Abubakar Muhammad Ali (GS31575 – Pharmacology)	Screening and evaluation of diabetic wound healing activity of *Moringa Oleifera* Lam using in vitro and in vivo wound models	2013-2015 **(Graduated)**
Ph.D.	Aminu Umar Kura (GS38283 – Toxicology)	Toxicity and biodistribution study of layered double hydroxide, single wall carbon nanotubes and iron oxide nano-materials containing levodopa in mouse cell and animal model.	2012-2014 **(Graduated)**
Ph.D.	Chitra Sathe (GS27698 – Molecular Biology)	Identification and characterization of the role of miRNAs in the neurogenic differentiation of mesenchymal stem cells	2010-2013 **(Withdrew candidacy**
As Co-Supervisor (or Member of the Supervisory Committee) outside UPM			

Degree	Name of candidates	Research / Thesis title	Candidature (Status)
M.Sc.	Renuka a/p Gunasekaran Universiti Malaya (UM) MGN 140047	The functional role of nutritional oils in the embryonic development of mice in prevention of neural tube defects	**2015-2017 (Graduated)**

Update on 18 June 2021