

# **CURRICULUM VITAE**

Gilberto K. K. Leung

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# Curriculum Vitae

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## **Biography**

Professor Gilberto K. K. Leung is a Clinical Professor, academic neurosurgeon and the holder of the endowed Tsang Wing-Hing Professorship in Clinical Neuroscience at The University of Hong Kong (HKU). He graduated from the University of London with BSc in Physical Anthropology (University College London) and M.B.B.S. (St. Bartholomew's Hospital) in 1992. During his training, he was awarded the Hallett Gold Medal by the Royal College of Surgeons of England, and the J. Douglas Miller Medal in Neurosurgery by the Royal College of Surgeons of Edinburgh. He joined HKU in 2005 where he obtained two doctorate degrees of MS and a PhD. He holds a LLM in Medical Law and Ethics from the University of Edinburgh with Distinction and the McLagan Prize for Best Graduate.

He is the Associate Dean (Teaching and Learning) of his Faculty at HKU, the Vice-President of the Hong Kong Academy of Medicine, and the Chairman of the Academy's Education and Examination Committee. He also sits as a Member of the Education and Accreditation Committee of the Medical Council of Hong Kong. He is the Region XVI Chief (Asia-Australasia) of the Advanced Trauma Life Support (ATLS) Programme of the American College of Surgeons, and a Governor of the College's China-Hong Kong Chapter. He teaches as a traveling faculty in low-/middle-income countries for the Asian Australasian Congress of Neurological Surgeons, and serves as the Vice-President of the Hong Kong Neurosurgical Society.

He provides clinical services as an Honorary Consultant Neurosurgeon at Queen Mary Hospital, Hong Kong. His clinical and research interests include endoscopic skull base surgery, neurotrauma, molecular biology of brain tumours, neuroprotective therapy as well as medical education, law and ethics. He has supervised 19 past or current post-graduate students, focusing on clinical and translational researches in neuroscience. He has authored/co-authored 163 peer-reviewed journal articles, 9 book chapters, 2 monographs, 123 conference papers, 57 other publications, and delivered 112 invited lectures.

# Curriculum Vitae

**Name:** Professor Gilberto Ka Kit Leung

**Academic Title:** Tsang Wing-hing Professor in Clinical Neuroscience

**Academic Rank:** Clinical Professor

**Clinical Position:** Honorary Consultant Neurosurgeon

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## Academic Qualifications:

1986-1992 M.B.B.S., The Medical College of St. Bartholomew's Hospital, University of London, U.K.

1988-1989 Intercalated BSc. (Physical Anthropology), University College London, University of London, U.K.

2006-2009 Master of Surgery (M.S.), The University of Hong Kong, H.K.

2010-2014 Doctor of Philosophy (PhD), The University of Hong Kong, H.K.

2015-2017 LL.M. (Medical Law and Ethics) with Distinction, University of Edinburgh, U.K.

## Professional Qualifications:

1996 Fellowship of the Royal College of Surgeons of Edinburgh (F.R.C.S.)

1996 Fellowship of the Hong Kong College of Surgeons (F.H.K.C.S.)

2001 Specialist in Neurosurgery, Fellowship of the Hong Kong Academy of Medicine (F.H.K.A.M. (Surgery))

2003 United States Medical Licentiate Examination (U.S.M.L.E.)

2013 Fellowship of the American College of Surgeons (F.A.C.S.)

### **Academic Positions:**

2005-2013 Clinical Assistant Professor, The University of Hong Kong, H.K.

2013-2017 Clinical Associate Professor, The University of Hong Kong, H.K.

2017-present Clinical Professor, The University of Hong Kong, H.K.

2017-present Tsang Wing-Hing Professor in Clinical Neuroscience

### **Honorary Appointments:**

2005-2013 Honorary Associate Consultant Neurosurgeon, Queen Mary Hospital, H.K.

2013-present Honorary Consultant Neurosurgeon, Queen Mary Hospital, H.K.

2009-2015 Honorary Assistant Professor, Department of Anatomy, Li Ka Shing Faculty of Medicine, The University of Hong Kong, H.K.

2015-present Honorary Associate Professor, School of Biomedical Sciences, Li Ka Shing Faculty of Medicine, The University of Hong Kong, H.K.

2012-present Visiting Professor, Joint Laboratory for Brain Function and Health, Jinan University, Guangzhou, People's Republic of China.

### **Postgraduate Training:**

1992-1993 House Officer, North Middlesex Hospital and St. Bartholomew's Hospital, London, U.K.

1993-1994 Senior House Officer, Northwick Park Hospital and St. Bartholomew's Hospital, London, U.K.

1995-2001 Basic and Higher Surgical Trainee, Department of Surgery, Queen Mary Hospital, H.K.

2003 Neuroendocrine Fellowship (Dr Edward Laws), Department of Neurosurgery, University of Virginia Health System, Charlottesville, Virginia, U.S.A.

## Research & Scholarship:

### A. Publications

**Citation Index (Google Scholar): H index = 30**

#### Book Chapters

1. Tam P, **Leung GKK**. Spinal dysraphism. In: Advanced Surgical Practice. Ed: Majid A, Kingsworth A. Greenwich Medical Media Limited, Cambridge. (2002): p.821-826. (ISBN-13: 9781841100180)
2. **Leung GKK**. Student attitudes towards patient safety. In: Student Attitudes. Ed: L Zysberg. Nova Sciences Publisher, Inc., New York. (2011): p.269-278. (ISBN: 978-1-61470-474-4)
3. Guo J, **Leung GKK**, Wu W. Bridging the gap for regeneration after CNS injury by nanofiber scaffolds: use of SAPNS for traumatic brain and spinal cord injury. In: Nanomedicine and the Nervous System. Ed: Martin CR, Preedy VR, Hunter RJ. Science Publisher, Taylor & Francis Group, Boca Raton. (2012): p.330-346. (ISBN 978-1-57808-728-0)
4. Tsang ACO, **Leung GKK**. External ventricular drainage for acute hydrocephalus – can an extended subcutaneous tunnel reduce infection rate? In: Hydrocephalus. Ed: Pant S & Cherian I. InTech, Croatia. (2012): p.87-98. (ISBN 978-953-51-0162-8)
5. **Leung GKK**, Wang Y, Wu W. Peptide nanofiber scaffold for brain tissue reconstruction. In: Nanomedicine, Methods in Enzymology. Ed: Duzgunes N. Academic Press, Massachusetts. (2012): p.177-190. (ISBN-13: 978-0123918604)
6. Zhang XQ, **Leung GKK**. Functional roles of non-coding RNAs in glioma and their clinical implications. In: MicroRNA and Non-Coding RNA: Technology, Developments and Applications. Ed: James C. Johnson. Nova Sciences Publisher, Inc., New York. (2013): p. 93-112. (ISBN: 978-1626184428)
7. Sun S, Lee D, **Leung GK**. Chemoresistance in glioma. In: New Advances on Disease Biomarkers and Molecular Targets in Biomedicine. Ed: N. Lee, C.Y. Cheng, J. Luk. Humana Press, New York, (2013). p. 243-270. (ISBN-13: 978-1627034555)
8. Gao M, Guo J, **Leung GK**, Wu W. Use of self-assembly nanofibre biomaterials for neural repair after injury. In: Advances in Nanofibers. Ed: Maguire R. InTech, Croatia (2013): p.185-197.(ISBN: 978-953-51-1209-9)
9. Poon MTP, **Leung GK**. Surgical treatment for meningioma in elderly patients. In: Meningioma: risk factors, treatment options and outcomes. Ed: Figueroa D. Nova Science Publishers, Inc., New York. Chapter 6. (ISBN: 978-1-53610-137-9)

## Doctorate Theses

**Leung GKK.** Trauma system and traumatic brain injury in Hong Kong. Master of Surgery Thesis, The University of Hong Kong, H.K. (2009)

**Leung GKK.** Applications of self-assembling peptide nanofibre scaffold and mesenchymal stem cell graft in surgery-induced brain injury. Doctor of Philosophy Thesis, The University of Hong Kong, H.K. (2014)

## Peer-reviewed Journal Publications

1. **Leung GKK\***, Cheng PW, Leung SY, Ng THK, Fung CF, Chan FL. Faces to remember. *Int J Neurorad* 1998; 4(6):417-424.
2. **Leung GKK\***, Ho SL, Fan YW. Rubral tremor associated with cavernous angioma of the midbrain. *Mov Disord* 1999; 14(1):191-193.
3. **Leung GKK\***, Hung KN, Fan YW. Surgical treatment for Parkinson's disease. *Hong Kong Practitioner* 1999; 21:106-115.
4. Shek TWH, Peh WCG, **Leung GKK**. Chondromyxoid fibroma of skull base: a tumour prone to local recurrence. *J Laryng Otolology* 1999; 113:380-385.
5. **Leung GKK\***, Lee SYM, Chung HY, Fan YW. Surgical outcome of acute subdural haematoma in patients above the age of 65 years. *Ann Coll Surg H K* 1999; 3:80-84.
6. **Leung GKK\***, Yip P, Fan YW. Spontaneous epidural haematoma associated with radiation-induced malignant fibrous histiocytoma. *J R Coll Surg Edin* 1999; 44:404-406.
7. **Leung GKK\***, Fan YW, Fong KY. Temporal lobectomy for intractable epilepsy. *H K Med J* 1999; 5:329-336.
8. Fan YW, **Leung GKK\***. The use of MRI CSF flow studies in neurosurgery. *J H K Coll Radiol* 2000; 3:165-169.
9. Au WY, Kwong YL, Shek TW, **Leung G**, Ooi C. Diffuse large-cell B-cell lymphoma in a pituitary adenoma: An unusual cause of pituitary apoplexy. *Am J Hematol* 2000; 63(4):231-232.
10. Au WY, Shek TW, Ma SK, **Leung G**, Ooi C, Liang R, Kwong YL. Meningeal granulocytic sarcoma (chloroma) in essential thrombocythemia. *J Clin Oncol* 2000; 18(23):3996-3997.
11. **Leung GKK\***, Wong ATY, Kwan EYC, Khor S, Fan YW. Extradural haematoma – a five-year audit at a tertiary trauma centre in Hong Kong. *Asian J Surg* 2001; 24(3):305-309.

12. **Leung GKK\***, Fan JKM, Tam MCH, Fan YW. Surgical complications of chronic subdural haematoma: a 5-year audit. *Ann Coll Surg H K* 2001; 5:99-103.
13. Lui WM, **Leung GKK\***, Hui Y, Lee KK, Fan YW. Endonasal endoscopic removal of growth-hormone-secreting pituitary adenomas. *H K Med J* 2001; 7:155-161.
14. **Leung GKK\***, Chow WS, Tan KCB, Fan YW, Lam KSL. Metastatic melanoma of the pituitary gland. *J Neurosurg* 2003; 99:913-915.
15. Leung DC, Man JHK, Tang THC, Wong LKY, **Leung GKK\***. Surgical hand-washing. *Ann Coll Surg H K* 2004; 8:71-75.
16. **Leung GKK\***, Lopes MBS, Thorner MO, Vance ML, Laws ER. Primary hypophysitis: a single-centre experience in 16 cases. *J Neurosurg* 2004; 101:262-271.
17. Tse YH, **Leung GK**, Fan YW. Cerebral protection in traumatic brain injury. *Surg Practice* 2005; 9:122-125.
18. **Leung GKK\***, Fan YW. Chronic subdural haematoma and arachnoid cyst in autosomal dominant polycystic kidney disease (ADPKD). *J Clin Neurosci* 2005; 12(7):817-819.
19. **Leung GKK\***, Auyeung KM, Lui WM, Fan YW. Emergency placement of a self-expandable covered stent for carotid artery injury during transsphenoidal surgery. *Br J Neurosurg* 2006; 20(1):55-57.
20. Lee R, Lui WM, Cheung RTF, **Leung GKK**, Chan KH. Mechanical thrombectomy in acute proximal middle cerebral artery thrombosis with the Alligator Retrieval Device. *Cerebrovas Dis* 2007; 23:69-71.
21. **Leung GKK\***, Ng KB, Taw BBT, Fan YW. Extended subcutaneous tunneling technique for extended ventricular drainage. *Br J Neurosurg* 2007; 21:359-364.
22. Hussaini IM, Trotter C, Zhao Y, Abdel-Fattah R, Amos S, Xiao A, Agi CU, Redpath GT, Fang Z, **Leung GK**, Lopes MB, Laws ER Jr. Matrix metalloproteinase-9 is differentially expressed in nonfunctioning invasive and noninvasive pituitary adenomas and increases invasion in human pituitary adenoma cell line. *Am J Pathol* 2007; 170(1):356-365.
23. **Leung GKK\***, Chan SK, Hung KN. Trilogly of neurosurgical complications after radiotherapy for nasopharyngeal carcinoma. *Surg Neurol* 2007; 68:466-470.
24. **Leung GKK\***, Lee CK, Nicholls JM. Radiation-induced rhabdomyosarcomatous transformation of a recurrent meningeal haemangiopericytoma. *Acta Neurochir (Wien)* 2007; 149(11):1163-1167.
25. Chan DCW, Fong DHF, Leung JYY, Patil NG, **Leung GKK\***. Maggot debridement therapy in chronic wound care. *H K Med J* 2007; 13(5):382-386.
26. Wong SSN, **Leung GKK**. Injury Severity Score (ISS) vs. ICD-derived Injury Severity Score (ICISS) in a patient population treated in a designated Hong Kong trauma centre. *McGill J of Medicine* 2008; 11(1):9-13.



27. Fung OYC, Leung KHK, Au CC, Chan MKD, **Leung GKK\***. Knowledge, acceptance and perception towards brainstem death among medical students in Hong Kong: a questionnaire survey on brainstem death. *Med Teacher* 2008; 30(5):e125-e130.
28. Leung KK, Fung CO, Au CC, Chan DM, **Leung GK\***. Knowledge and attitudes toward brain stem death among university undergraduates. *Transplant Proceedings* 2009; 41:1469-1472.
29. **Leung GKK\***, Chan SK, Lam TS. Patients' attitudes towards medical student 'clerking' in Hong Kong. *Med Teacher* 2009; 13;1.
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31. Cheung JPY, Tsang HHL, Cheung JJC, Yu HHY, **Leung GKK**, Law WL. Adjuvant therapy for the reduction of post-operative intra-abdominal adhesion formation. *Asian J Surg* 2009; 32(3):180-187.
32. Gandhi A, **Leung GKK**, Patil NG, Wong J. Clinical undergraduate examination - voluntary patients' perspective. *Med Teacher* 2010; 32(1):e1-4.
33. **Leung GKK\***, Patil NG. Patient safety in the undergraduate curriculum: medical students' perception. *H K Med J* 2010; 16(2):1-5.
34. **Leung GKK\***. Trauma system in Hong Kong. *Surg Practice* 2010; 14(2):1-5.
35. **Leung GKK\***, Lee R, Lui WM, Hung KN. Thalamo-perforating artery aneurysm in Moyamoya disease. *Br J Neurosurg* 2010; 24(4):479-481.
36. **Leung KK\***, Ho W, Tong KH, Yuen WK. Outcome of severely injured trauma patients at a designated trauma centre in the Hong Kong Special Administrative Region. *Chin Med J (Engl)* 2010; 123(10):1251-1254.
37. **Leung GKK\***. Cerebrospinal fluid (CSF) pseudocyst presented with inferior vena caval obstruction and hydronephrosis. *Childs Nerv Syst* 2010; 26:1243-1245.
38. Li LF, Leung SC, Chan SK, **Leung GKK**. Neurocutaneous melanosis and negative fluorodeoxyglucose positron emission tomography. *Surg Practice* 2010; 14:107-110.
39. **Leung GKK\***. Medicine as our liberal arts. *Med Teacher* 2010; 32:923-933.
40. Steinbok P, Milner R, Agrawal D, Farace E, **Leung GK**, Ng I, Tomita T, Wang E, Wang N, Wong GK, Zhou LF. A multicenter multinational registry for assessing ventriculoperitoneal shunt infections for hydrocephalus. *Neurosurgery* 2010; 67(5):1303-1310.
41. Lui VCH, Sin SSL, Pu JKS, Hung KN, **Leung GKK\***. Invasion of human glioma cells is regulated by multiple chloride channels including ClC-3. *Anticancer Res* 2010; 30:4515-4524.

42. **Leung GKK\***, Patil NG, Ip MSM. Introducing patient safety to undergraduate medical students - a pilot program by health care administrators. *Med Teacher* 2010; 32(12):e547-551.
43. **Leung GKK\***, Chang A, Cheung FC, Ho HF, Ho W, Hui SM, Kam CW, Lai A, Lam KW, Leung M, Liu SH, Mok F, Rainer TH, Shen WY, So FL, Wong G, Wu A, Yeung JHH, Yuen WK. The first five years since trauma center designation in the Hong Kong Special Administrative Region, the People's Republic of China. *J Trauma* 2011; 70(5):1128-1133.
44. **Leung GKK\***, Patil NG. Medical students as observers in theatre – is an explicit consent necessary? *Clin Teacher* 2011; 8:122-125.
45. **Leung GKK\***. Growing skull fracture in an adult presented nine years after blunt head trauma. *J Clin Neurosci* 2011; 18:855-857.
46. **Leung GK\***. Spontaneous pneumocephalus after esophagogastrosocopy. *Endoscopy* 2011; 43 (Suppl 2):E208.
47. **Leung GKK\***, Law HY, Hung KN, Fan YW, Lui WM. Combined simultaneous transcranial and transsphenoidal resection of large-to-giant pituitary adenomas. *Acta Neurochir (Wien)* 2011; 153(7):1401-1408.
48. **Leung GKK\***, Wong SWH, Ng GKB, Hung KN. Concomitant use of Western and Traditional Chinese Medicine treatments in neurosurgical patients. *Chin J Integ Med* 2011; 17(8):1-5.
49. Pu JKS, Chan RTT, Ng GKB, **Leung GKK**, Hung KN, Fung CF. Using bevacizumab in the fight against malignant glioma: first results in Asian patients. *H K Med J* 2011; 17(4):274-279.
50. **Leung GKK\***, Ho J, Ho JKS. Pituitary enlargement in spontaneous intracranial hypotension - a diagnostic pitfall. *Acta Neurochir (Wien)* 2011; 153(12):2445-2446.
51. Mei LL, Ding X, Tsang SY, Pun FW, Ng SK, Wang J, Zhao C, Li D, Wan W, Yu CH, Tan TC, Poon WS, **Leung GKK**, Ng HK, Zhang L, Xue H. AluScan: a method for genome-wide scanning of sequence and structure variations in the human genome. *BMC Genomics* 2011; 12:564-572.
52. Sun S, Wong TS, Zhang XQ, Pu JK, Lee NP, Day PJ, Ng GK, Lui WM, **Leung GK\***. Protein alterations associated with temozolomide resistance in subclones of human glioblastoma cell lines. *J Neurooncol* 2012; 107(1):89-100.
53. Chong BH, Lau KK, Chan KH, Lui WM, **Leung GKK**, Lau CP, Tse HF, Pu JKS, Siu CW. Use of aspirin in Chinese after recovery from primary intracranial hemorrhage. *Thrombo Haemost* 2012; 107(2):241-247.
54. Xia H, Cheung WKC, Ng SS, Jiang X, Jiang S, Sze J, **Leung GKK**, Chan DTM, Bian X, Kung H, Poon WS, Lin MC. Loss of brain-enriched miR-124 enhances the stem-like traits and invasiveness of glioma cells. *J Bio Chem* 2012; 287(13):9962-9971.

55. **Leung GKK\***, Ng GKB, Ho W, Hung KN, Yuen WK. Impact of a trauma team on the outcome of patients with acute subdural haematoma (ASDH). *Injury* 2012; 43:1419-1422.
56. Chu JP, Mak HKF, Yau KKW, Zhang L, Tsang J, Chan Q, **Leung GKK**. Pilot study on evaluation of any correlation between MR perfusion (Ktrans) and diffusion (apparent diffusion coefficient) parameters in brain tumors at 3 Tesla. *Cancer Imaging* 2012; 12(1):1-6.
57. Pong V, Chan K, Chong B, Lui W, **Leung GK**, Tse H, Pu JK, Siu C. Long-term outcome and prognostic factors after spontaneous cerebellar hemorrhage. *Cerebellum* 2012; 11(4):939-945.
58. **Leung GKK\***, Yuen MMA, Chow WS, Tse PYH, Lui WM. An endoscopic modification of the simultaneous 'above and below' approach to large pituitary adenomas. *Pituitary* 2012; 15(2):237-141.
59. Archibald L, Pople IK, Meling T, Poon W, Assaker R, Mathieu D, Iantosca M, Wang E, Zhang L, **Leung G**, Chumas P, Menei P, Beydon L, Hamilton M, Kamaly-Asl I, Lewis S, Ning W, Megerian J, Murphy J, Michael A. Comparison of infection rate with the use of antibiotic-impregnated versus standard extraventricular drainage devices (EVD): A prospective, randomized controlled trial. *Neurosurgery* 2012; 71(1):6-13.
60. Wong STS, Zhang XQ, Zhuang JTF, Chan HL, Li CH, **Leung GKK\***. MicroRNA-21 inhibition enhances *in vitro* chemosensitivity of temozolomide-resistant glioblastoma cells. *Anticancer Res* 2012; 32(7):2835-2841.
61. Zhang X, Pu JK, Tsang AC, Lee D, Man VO, Lui W, Wong ST, **Leung GK\***. Long non-coding RNAs expression profiles predict clinical phenotype in glioma. *Neurobio Dis* 2012; 48(1):1-8.
62. Taw BBT, **Leung GKK**, Lam ACS, Ho FLY, Hung KN. Functional survival after acute care for severe head injury at a designated trauma centre in Hong Kong. *Asian J Surg* 2012; 35:117-122.
63. Sun S, Lee D, Lee NP, Pu JKS, Wong STS, Lui WM, Fung CF, **Leung GKK\***. Hyperoxia resensitizes chemoresistant human glioblastoma cells to temozolomide. *J Neurooncol* 2012; 109:467-475.
64. Tang AYS, Lai SK, Leung KM, **Leung GKK**, Chow KW. Influence of aspect ratio on the endovascular treatment of intracranial aneurysms: A computational investigation. *J Biomed Sc Engineer* 2012; 5:422-431.
65. Lau V, Lui WM, Lee R, **Leung GKK**. Carotid-cavernous sinus fistula presented with contralateral intracerebral haemorrhage. *Hong Kong J Radiol* 2012; 15:170-173.
66. Pu J, Ng GKB, **Leung GKK**, Wong CK. A One-year review of the incidence of brain tumours in Hong Kong Chinese patients as part of the Hong Kong Brain and Spinal Tumours Registry. *Surg Practice* 2012; 16:133-136.

67. Cheung KS, Wong HT, Leung LP, Tsang TC, **Leung GKK**. The diagnostic accuracy of focused abdominal sonography for trauma in blunt abdominal trauma patients in a local trauma center of Hong Kong. *Chin J Traumatol* 2012; 15(5):273-278.
68. **Leung GKK\***, Tsang ACO, Lui WM. Pipeline embolization device for the treatment of intracranial aneurysm - a systematic review. *Clin Neuroradiol* 2012; 22(4):295-303.
69. Sun S, Lee D, Ho AS, Pu JK, Zhang XQ, Lee NP, Day PJ, Lui WM, Fung CF, **Leung GK\***. Inhibition of prolyl 4-hydroxylase, beta polypeptide (P4HB) attenuates temozolomide resistance in malignant glioma via the endoplasmic reticulum stress response (ERSR) pathways. *Neuro-oncol* 2013; 15:562-577.
70. Chan KH, **Leung GKK**, Lau KK, Liu S, Lui WM, Lau CP, Tse HF, Pu JKS, Siu CW. Predictive value of the HAS-BLED score for the risk of recurrent intracranial hemorrhage after first spontaneous intracranial hemorrhage. *World Neurosurg* 2013 Mar 11. [Epub ahead of print]
71. Xu FF, Li J, Sun S, Guo E, Hao S, Hou Z, **Leung GK**, Liu B. The surgical management of a penetrating orbitocranial injury with a bakelite foreign body reaching the brain stem. *Brain Inj* 2013; 27:951-956.
72. Zhang X, Sun S, Lam KF, Kiang KMY, Pu JKS, Ho ASW, Lui WM, Gung CF, **Leung GKK\***. A long non-coding RNA signature in glioblastoma multiforme predicts survival. *Neurobio Dis* 2013; 58:123-131.
73. Poon MT, Fung LH, Pu JK, **Leung GK\***. Outcome comparison between younger and older patients undergoing intracranial meningioma resections. *J Neuro-oncol* 2013; 114:219-227.
74. Un TKC, Wang YC, Wu WT, **Leung GKK\***. Potential use of systemic progesterone in modulating electrocautery-induced secondary brain injury. *J Clin Neurosci* 2013; 20:1329-1330.
75. Shea YF, Li LF, **Leung GKK**, Chu LW. An uncommon complication of fall in an elderly: interhemispheric subdural haematoma. *J Clin Geront Geriatrics* 2013; 4:93-95.
76. **Leung GKK\***, Ang SBL, Lau TC, Neo HJ, Patil NG, To LK. Patient safety culture among medical students in Singapore and Hong Kong. *Sing Med J* 2013; 54:501-505.
77. Tang AY, Chan HH, Tsang AC, **Leung GK**, Leung KM, Yu AC, Chow KC. The effects of stent porosity on the endovascular treatment of intracranial aneurysms located near a bifurcation. *J Biomed Sci Engineer* 2013; 6:812-822.
78. Ng, GKB, **Leung GKK**, Johnson JM, Cowling BJ. Factors affecting implementation of accreditation programmes and the impact of the accreditation process on quality improvement in hospitals: a SWOT analysis. *H K Med J* 2013; 19:434-446.
79. Poon MT, Fung LH, Pu JK, **Leung GK\***. Outcome of elderly patients undergoing intracranial meningioma resection – a systematic review and meta-analysis. *Br J*

*Neurosurg* 2014; 28:303-9.

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81. Zhu FF, Poolton JM, Maxwell JP, Fan JK, **Leung GK**, Masters RS. Refining the continuous tracking paradigm to investigate implicit motor learning. *Exp Psychol* 2014; 61:196-204.
82. Lau TWZ, Tang GSM, Mak KL, **Leung GKK\***. Moment-specific compliance in hand hygiene. *Clin Teacher* 2014; 11:159-64.
83. **Leung GKK\***, Chan PH. Supratentorial parenchymal haemorrhages during spine surgery. *J Korean Neurosurg Soc* 2014; 55:103-5.
84. **Leung GK\***, Nicholls JM. Effect of clinical context on simulator-based assessment of blood pressure taking - a pilot randomized study. *Med Teach* 2014;36:177-9.
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brain edema and inflammatory responses following experimental brain resection. *Brain Inj* 2014; 28(12):1594-601.

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#### Conference Papers

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18. **Leung GKK**. The Trauma Injury Severity Score (TRISS) is a predictor of mortality in patients with severe but not moderate or mild head injury. Conjoint Meeting of the College of Surgeons of Hong Kong and The Royal College of Surgeons of England. (H.K., May 2007)
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57. **Leung GKK**, Sun S, Lee DYC, Lee NP, Pu JKS. Hyperoxia resensitizes chemoresistant human glioblastoma cells to temozolomide. The 9<sup>th</sup> Meeting of the Asian Society of Neuro-oncology. (Taipei, Apr 2012)
58. Wong WH, Wong HT, Tong DKH, **Leung GKK**, Yuen WK. Utilization of whole body computed tomography (WBCT) for trauma patients. The Advanced Trauma Life Support Region XVI Meeting. (Malaysia, May 2012)
59. **Leung GKK**. Self-assembling peptide nanofiber scaffold as a potential carrier of transplantable cells for neuro-regenerative therapy. Postgraduate Symposium 2012, Department of Anatomy, HKU. (H.K., Jun 2012)
60. **Leung GKK**, Zhang X, Sun S, Wong STS, Lui WM. Long non-coding RNA expression profiles differentiate between subtypes of human glioma. The 9<sup>th</sup> Asian Congress of Neurological Surgeons. (Istanbul, Sep 2012)
61. **Leung GKK**, Tsang ACO, WK Ho, Lui WM. Cranionasal resection for esthesioblastoma – a single centre experience. The 9<sup>th</sup> Asian Congress of Neurological Surgeons. (Istanbul, Sep 2012)
62. Tsang, ACO, **Leung GKK**, Lee R, Leung KM, Lui WM. Pipeline embolization device for ruptured radiation-induced carotid pseudoaneurysms in nasopharyngeal cancer patient. The 9<sup>th</sup> Asian Congress of Neurological Surgeons. (Istanbul, Sep 2012)
63. Fung AMY, Tsang ACO, **Leung GKK**, Lui WM. Pipeline stenting in anterior circulation cerebral saccular aneurysms: a risk factor analysis for treatment success. The Royal College of Surgeons of Edinburgh and The College of Surgeons of Hong Kong Conjoint Scientific Congress 2012. (H.K., Sep 2012)
64. **Leung GKK**. Translation implications of endoplasmic reticulum stress response in glioblastoma chemoresistance. The 19<sup>th</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (H.K., Nov 2012)
65. **Leung GKK**. Delayed epistaxis after endoscopic transsphenoidal surgery - possible



- cause, treatment and prevention. The 19th Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (H.K., Nov 2012)
66. Zhang XQ, **Leung GK**. Prognostic value of long non-coding RNA signatures in patients with glioblastoma multiforme. The 19th Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (H.K., Nov 2012)
  67. Tsang ACO, Chow KW, Leung KM, **Leung GKK**. Computer fluid dynamics study of intracerebral aneurysm after flow diverter treatment. The 19<sup>th</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (H.K., Nov 2012)
  68. Zhang XQ, Lam EKF, **Leung GKK**. Prognostic value of long non-coding RNA signatures in patients with glioblastoma multiforme. The 19<sup>th</sup> Hong Kong International Cancer Congress (H.K., Nov 2012)
  69. Sun S, Lee D, Ho ASW, Pu JKS, Zhang XQ, **Leung GKK**. Inhibition of prolyl 4-hydroxylase, beta polypeptide (P4HB) overcomes temozolomide resistance in malignant glioma via the ER stress response pathways. The 19<sup>th</sup> Hong Kong International Cancer Congress (H.K., Nov 2012)
  70. **Leung GKK**, SBL Ang, TC Lau TC, HK Neo, NG Patil, LK Ti. Patient safety culture among medical students in Singapore and Hong Kong. The 10<sup>th</sup> Asian Pacific Medical Education Conference. (Singapore, Jan 2013)
  71. Chan HHN, Tang AYS, Tsang ACO, **Leung GKK**, Leung KM, Chow KW. Influence of stent porosity on the endovascular treatment of intracranial aneurysms located near a bifurcation: a computational investigation. The 11<sup>th</sup> International Symposium on Computer Methods in Biomechanics and Biomedical Engineering. (Utah, Apr 2013)
  72. Leung RYY, Wong HT, Ip AHW, Chan AHC, Choy TWM, Chiu DSM, **Leung G**, Lam CCK. More than a ratio: A review of Trauma Transfusion Protocol (TTP) in Queen Mary Hospital. Hospital Authority Convention 2013. (H.K., May 2013)
  73. Zhu F, Poulton JM, Fan JKM, **Leung GKK**, Masters RSW. Examining multi-task training of technical skills in surgery. The 19TH Asian Congress of Surgery & 1<sup>st</sup> Singhealth Surgical Congress. (Singapore, July 2013)
  74. **Leung GKK**. Outcome comparison between young and elderly patients undergoing intracranial meningioma resections. Congress of Neurological Surgeons 2013 Annual Meeting. (San Francisco, Oct 2013)
  75. **Leung GKK**. The implication of persistent fetal-type circulation for the treatment of intracranial aneurysms using the pipeline embolization device. Congress of Neurological Surgeons 2013 Annual Meeting. (San Francisco, Oct 2013)
  76. Sang YH, Yang XY, Su HX, **Leung GKK**, Wu WT, Cheung RTF. Transplantation of NPCS into the hematoma cavity improves functional outcome in a rat model of intracerebral hemorrhage. The 5<sup>th</sup> World Conference of Intracerebral Haemorrhage cum the 20<sup>th</sup> Annual Scientific Meeting of the Hong Kong Neurosurgical Society. (Hong Kong, Nov 2013)

77. Xu FF, Sun S, Ho ASW, Lee D, Kiang KMY, **Leung GKK**. The effects of progesterone versus dexamethasone on brain oedema and inflammatory responses following experimental brain resection. The 5<sup>th</sup> World Conference of Intracerebral Haemorrhage cum the 20<sup>th</sup> Annual Scientific Meeting of the Hong Kong Neurosurgical Society. (Hong Kong, Nov 2013)
78. **Leung GKK**. Up-regulation of the chaperone protein prolyl 4-hydroxylase, beta polypeptide (P4HB), promotes tumour invasion, angiogenesis and growth via EGFR/MAPK (ERK) signaling. The 18<sup>th</sup> Annual Meeting of the Society of Neuro-oncology. (San Francisco, Nov 2013)
79. **Leung GKK**. Hyperoxia resensitizes chemoresistant glioblastoma cells to temozolomide through prolonged activation of unfolded protein response (UPR). The 18<sup>th</sup> Annual Meeting of the Society of Neuro-oncology. (San Francisco, Nov 2013)
80. **Leung GKK**. Prognostic values of long non-coding RNA signatures in glioblastoma multiforme. The 18<sup>th</sup> Annual Meeting of the Society of Neuro-oncology. (San Francisco, Nov 2013)
81. **Leung GKK**, Wu WT. Applications of self-assembling peptide nanofibre scaffold and mesenchymal stem cell graft on surgery-induced brain injury. Research Postgraduate Symposium, Li ka Shing faculty of Medicine, HKU. (Hong Kong, Dec 2013)
82. **Leung GKK**. Multi-task versus single-task training of laparoscopic surgical skill: Performance and kinematic outcomes. The 11th Asian Pacific Medical Education Conference, National University of Singapore. (Singapore, Jan 2014)
83. Cheung KS, Wong HT, **Leung GKK**. Diagnostic accuracy of Focused Abdominal Sonography for Trauma in blunt abdominal trauma patients in a trauma centre of Hong Kong. Singapore Trauma 2014. (Singapore, Apr 2014)
84. Lui DTW, Leung LP, Wong HT, **Leung GKK**. Secondary trauma diversion: what are the reasons? Singapore Trauma 2014. (Singapore, Apr 2014)
85. Chow FC, Wong HT, **Leung GK**. Clinical parameters predicting in-hospital mortality in geriatric patients following severe trauma: a 15-year experience. The Advanced Trauma Life Support (ATLS) Region XVI Annual Meeting, American College of Surgeons. (Taipei, Jun 2014)
86. Wu EX, Wang AM, Liang KM, **Leung GK**, Tsang A, Xie B, Guo H. Separation and quantitative assessment of mobile lipid and lactate level by diffusion weighted magnetic resonance spectroscopy (DW-MRS). The 2014 joint ISMRM-ESMRMB Annual Meeting. (Milano, May 2014)
87. Tsang ACO, **Leung GKK**, Lui WM. Functional outcome of normal pressure hydrocephalus patients after ventriculoperitoneal shunt. The Royal College of Surgeons of Edinburgh/College of Surgeons of Hong Kong Conjoint Scientific Congress. (Hong Kong, Sep 2014)
88. Chow FFL, Wong HHT, **Leung GKK**. How old is old? Age and other parameters predicting in-hospital mortality in elderly trauma patients. The Royal College of

Surgeons of Edinburgh/College of Surgeons of Hong Kong Conjoint Scientific Congress. (Hong Kong, Sep 2014)

89. **Leung GKK.** Effects of progesterone versus dexamethasone on brain edema and inflammatory responses following experimental brain resection. The 15th European Congress of Neurosurgery. (Prague, Oct 2014)
90. **Leung GKK, Sun S.** Using a proteomics approach to identify potential therapeutic targets in temozolomide-resistant glioblastoma multiform. The 19th Scientific Meeting of the Society of Neuro-oncology. (Florida, Nov 2014)
91. **Leung GKK, Zhang XQ, Kiang KMY.** IDH1-mutation-associated long non-coding RNA expression changes in glioma. The 19th Scientific Meeting of the Society of Neuro-oncology. (Florida, Nov 2014)
92. **Leung GKK, Sun S.** Upregulation of the endoplasmic reticulum chaperone, prolyl 4-hydroxylase, beta polypeptide (P4HB) promotes invasion, angiogenesis and growth via EGFR/MAPK (ERK) signaling pathway in malignant glioma. The 19th Scientific Meeting of the Society of Neuro-oncology. (Florida, Nov 2014)
93. **Zhang XQ, Leung GKK.** CRNDE, an EGFR-regulated long non-coding RNA, plays oncogenic role in glioma. The 21<sup>st</sup> Hong Kong International Cancer Congress. (Hong Kong, Nov 2014)
94. **Lee D, Leung GKK.** MicroRNA-210 and endoplasmic reticulum chaperones in the regulation of chemoresistance in glioma. The 21<sup>st</sup> Hong Kong International Cancer Congress. (Hong Kong, Nov 2014)
95. **Leung GKK, Tsang RK, Tsang ACO, Lam JW, Ho WK.** Long-term oncological outcome of endoscopy-assisted craniotomy resection for olfactory neuroblastoma. The 14th Asian Australasian Congress of Neurological Surgeons. (Jeju Island, Korea, Apr 2015)
96. **Leung GKK, Zhang XQ.** Associations between long non-coding RNA dysregulations, IDH-1 mutation and clinical phenotypes in glioma. International Symposium on Frontiers in Cancer Biology and Drug Development. (Hong Kong, Mar 2015)
97. **Leung GKK.** Differential expression of long non-coding RNA in gliomas with or without IDH-1 mutation. Joint 11<sup>th</sup> Biennial Convention of the ASEAN Neurological Association and 16<sup>th</sup> ASEAN Congress of Neurological Surgery. (Singapore, July 2015)
98. **Tsang ACO, Leung GKK.** The Hong Kong Neurosurgical Society prospective observational study on outcome of cerebrospinal fluid diversion procedures: an interim report. The 22<sup>nd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2015)
99. **Zhang P, Leung GKK.** Rutin increases the efficacy of temozolomide in glioblastoma via autophagy inhibition. The 22<sup>nd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2015)

100. Kiang KMY, **Leung GKK**. Differential long non-coding RNA expressions in gliomas with EGFR alteration. The 22<sup>nd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2015)
101. Cheng SY, **Leung GKK**. Progesterone, a neurosteroid, as a potential novel glioma therapeutic agent. The 22<sup>nd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2015)
102. Ming MW, **Leung GKK**. Potential roles of cytoskeletal protein in glioblastoma resistance. The 22<sup>nd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2015)
103. Li N, Cheng H, **Leung GKK**. Regional deep hypothermia preserves nerve conduction and myelin sheaths integrity after contusive spinal cord injury in rats: a short-term and pilot study. The 22<sup>nd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2015)
104. Cai JF, Ho WS, **Leung GKK**, Ho SL. Neuro-endovascular service in the University of Hong Kong Shenzhen Hospital. The 22<sup>nd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2015)
105. **Leung GKK**. Long-term oncological outcome of endoscopy-assisted craniobasal resection for olfactory neuroblastoma. European Congress of Neurological Surgeons 2015 (Madrid, Oct 2015)
106. Vacek D, Wong S, **Leung GK**. What young doctors should learn about risk disclosure when informing patients waiting operations? Frontiers and Medical and Health Sciences Education 2016 (Hong Kong, Nov 2016)
107. Chen CPY, Tsang ACO, Tsang FCP, Ho WS, **Leung GKK**, Lui WM. Extracranial-intracranial bypass and craniofacial resection for complex skull base tumour involving the internal carotid artery. The 23<sup>rd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2016)
108. Lam YY, **Leung GK**. Knowledge and expectations of the general public in Hong Kong on the symptomatology, risk factors and contemporary management of acute stroke. The 23<sup>rd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2016)
109. Yee HF, Tsang CP, **Leung GK**. Transluminal angioplasty for the treatment of cerebral vasospasm following subarachnoid haemorrhage: a ten-year retrospective review. The 23<sup>rd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2016)
110. Tsang ACO, **Leung GKK**, Wong GKC, Li LF, Woo PYM, Ho LY, Cheng KF, Mak CHK, Yeung LYT. A prospective territory-wide observational study of external ventricular drains outcome and complication after introduction of antibiotics and silver-impregnated catheters in Hong Kong (The HKNS EVD Study). The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2016)
111. Lui FCW, tau BBT, lau E, Lam TC, Lee VHF, Leung DKC, **Leung GKK**, Lui WM.

- Whole-brain radiotherapy for more than three brain metastases: a single-centre experience. The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2016)
112. Kiang KM, **Leung GK**. Role of long non-coding RNA CRNDE in gliomagenesis. The 23<sup>rd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2016)
  113. Hwang AC, Cheng KF, Leung GKK, Ho WWS, Lui WM. Spinal lipoma of the filum terminale: review of 30 patients in Queen Mary Hospital. The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2016)
  114. Zhang GP, **Leung GK**. Quinacrine increases the cytotoxicity of temozolomide in glioblastoma via autophagy inhibition. The 23<sup>rd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2016)
  115. Cheng SY, **Leung GK**. Progesterone benefits experimental non-operable glioma-bearing rats in survival and functional preservation. The 23<sup>rd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2016)
  116. Li N, **Leung GK**. Caffeine sensitizes temozolomide's chemo-efficacy by impeding cell cycle arrest in glioma cell-line. The 23<sup>rd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2016)
  117. Vacek D, **Leung GKK**. How doctors should approach risk disclosure when informing patients of their surgical operation during a preoperative meeting? The 23<sup>rd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2016)
  118. Li N, **Leung GK**. Vitamin D3 promotes motor functional recovery after experimental spinal cord injuries. The 24<sup>th</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2017)
  119. Kiang KK, **Leung GK**. The functional roles of cytoskeleton protein adducin 3 in glioblastoma multiforme. The 24<sup>th</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2017)
  120. Xhang GP, **Leung GK**. IOX, an analogue of genistein Increases the Cytotoxicity of Temozolomide in Glioblastoma cells. The 24<sup>th</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2017)
  121. Ye XF, **Leung GK**. The establishment and outcome of endoscopic transsphenoidal surgery for sella lesions at the University of Hong Kong-Shenzhen Hospital. The 24<sup>th</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2017)
  122. Zhu Z, **Leung GK**. Differential gene expression profiles and functional properties associated with Cathepsin D in glioblastoma. The 24<sup>th</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2017)
  123. Zhu Z, **Leung GK**. Lovastatin enhances cytotoxicity of temozolomide via impairing autophagic flux in glioblastoma cells. The 25<sup>th</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. (Hong Kong, Nov 2017)

Abstracts Published in Journals

1. **Leung GKK**, Shek TWH, Cheng W, Fan YW. Benign osteoblastoma of the orbit – a case report. *Ann Coll Surg Hong Kong* 1998; 2(1):26.
2. **Leung GKK**, Ho SL, Fan YW. Rubral tremor associated with cavernous angioma of the midbrain. *Ann Coll Surg Hong Kong* 1998; 2(1):27.
3. **Leung GKK**, Ho W, Yuen WK. The effect of inter-hospital transfer on the outcome of trauma patients. *Surg Practice* 2006; 10(suppl):A21.
4. **Leung GKK**, Patil NG. Patient safety in the undergraduate curriculum: medical students' perception. *Med Educ* 2010; 44(suppl 4):1.
5. **Leung GKK**. Traumatic brain injury in a developing trauma system in Hong Kong. *Surg Practice* 2010; 14(Suppl.):S37.
6. **Leung GKK**, Guo J, Wu W. Self-assembling peptide nanofibre scaffold (SAPNS) as a potential neuro-regenerative biomaterial in surgically induced brain injury. *Surg Practice* 2010; 14(Suppl.):S37.
7. **Leung GKK**. Technical competency in neurosurgery - trainees versus specialists in expectations and perceptions. *Surg Practice* 2010; 14(Suppl.):S37.
8. Wong PHD, **Leung GKK**. Ventriculoperitoneal shunt failure and infection: a retrospective review at Queen Mary Hospital. *Surg Practice* 2010; 14(Suppl.):S57.
9. Un KC, Li LF, Wu WT, **Leung GKK**. Glial reaction of the brain after bipolar coagulation : a pilot study. *Surg Practice* 2010; 14(Suppl.):S49.
10. Li LF, **Leung GK**. Incidence of subjective anosmia after interhemispheric approach to anterior skull pathology. *Surg Practice* 2010; 14(Suppl.):S59.
11. Pu JKS, Ng GKB, Chiu HM, Hung KN, **Leung GK**, Po YC, Wong G, Yam KY, Zhu XL, Wong CK. Hong Kong intracranial and central nervous system tumour registry. *Surg Practice* 2010; 14(Suppl.):S38.
12. **Leung GK**, Sun S, Wong TS, Zhang XS, Pu JKS. Lui WM. Acquired temozolomide resistance in malignant gliomas - a proteomics approach and the role of prolyl 4-hydroxylase, beta polypeptide (P4HB). *Neuro-oncol* 2011; 13(3):111.
13. Tsang ACO, Chow KW, Leung KM, **Leung GK**. Computer fluid dynamics study of intracerebral aneurysm after flow diverter treatment. *Surg Practice* 2013; 17:S4.
14. S Sun, **Leung GKK**. Hyperoxia resensitizes chemoresistant glioblastoma cells to temozolomide through prolonged activation of unfolded protein responses. *Neuro-oncol*

- 2013; 15:50-51.
15. Zhang XQ, **Leung GK**. Prognostic value of long non-coding RNA signatures in patients with glioblastoma multiforme. *Surg Practice* 2013; 17:S6.
  16. **Leung GKK**. Translation implications of endoplasmic reticulum stress response in glioblastoma chemoresistance. *Surg Practice* 2013; 17:S6.
  17. **Leung GKK**, SBL Ang, TC Lau TC, HK Neo, NG Patil, LK Ti. Patient safety culture among medical students in Singapore and Hong Kong. *Med Educ* 2013; 47(Suppl 2):14.
  18. **Leung GKK**, Zhang XQ, Kiang KMY. IDH1-mutation-associated long non-coding RNA expression changes in glioma. *Neuro Oncol* 2014;16 (Suppl 5):V76.
  19. **Leung GKK**, Sun S, Ho ASW, Lee D, Kiang KMY, Xu FF, Pu JKS, Zhang XQ. Upregulation of the endoplasmic reticulum chaperone, prolyl 4-hydroxylase, beta polypeptide (P4HB) promotes invasion, angiogenesis and growth via EGFR /MAPK(ERK) signaling pathway in malignant glioma. *Neuro Oncol* 2014; 16 (Suppl 5):v54.
  20. **Leung GKK**, Zhu F, Poolton J, Fan J, Masters R. Multi-task versus single-task training of laparoscopic surgical skills: performance and kinematic outcomes. *Med Edu* 2014; 48 (Suppl. 2):2.
  21. Chen CPY, Tsang ACO, Tsang FCP, Ho WS, **Leung GKK**, Lui WM. Extracranial-intracranial bypass and craniofacial resection for complex skull base tumour involving the internal carotid artery. The 23<sup>rd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. *HKMJ* 2017; 23(Suppl 3):11.
  22. Lam YY, **Leung GK**. Knowledge and expectations of the general public in Hong Kong on the symptomatology, risk factors and contemporary management of acute stroke. The 23<sup>rd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. *HKMJ* 2017; 23(Suppl 3):19.
  23. Yee HF, Tsang CP, **Leung GK**. Transluminal angioplasty for the treatment of cerebral vasospasm following subarachnoid haemorrhage: a ten-year retrospective review. The 23<sup>rd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. *HKMJ* 2017; 23(Suppl 3):19.
  24. Tsang ACO, **Leung GKK**, Wong GKC, Li LF, Woo PYM, Ho LY, Cheng KF, Mak CHK, Yeung LYT. A prospective territory-wide observational study of external ventricular drains outcome and complication after introduction of antibiotics and silver-impregnated catheters in Hong Kong (The HKNS EVD Study). The Hong Kong Neurosurgical Society. *HKMJ* 2017; 23(Suppl 3):20.
  25. Lui FCW, tau BBT, lau E, Lam TC, Lee VHF, Leung DKC, **Leung GKK**, Lui WM. Whole-brain radiotherapy for more than three brain metastases: a single-centre experience. The Hong Kong Neurosurgical Society. *HKMJ* 2017; 23(Suppl 3):26.
  26. Kiang KM, **Leung GK**. Role of long non-coding RNA CRNDE in gliomagenesis. The 23<sup>rd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. *HKMJ* 2017;

- 23(Suppl 3):32.
27. Hwang AC, Cheng KF, Leung GKK, Ho WWS, Lui WM. Spinal lipoma of the filum terminale: review of 30 patients in Queen Mary Hospital. The Hong Kong Neurosurgical Society. *HKMJ* 2017; 23(Suppl 3):32.
  28. Zhang GP, **Leung GK**. Quinacrine increases the cytotoxicity of temozolomide in glioblastoma via autophagy inhibition. The 23<sup>rd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. *HKMJ* 2017; 23(Suppl 3):33.
  29. Cheng SY, **Leung GK**. Progesterone benefits experimental non-operable glioma-bearing rats in survival and functional preservation. The 23<sup>rd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. *HKMJ* 2017; 23(Suppl 3):33.
  30. Li N, **Leung GK**. Caffeine sensitizes temozolomide's chemo-efficacy by impeding cell cycle arrest in glioma cell-line. The 23<sup>rd</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society. *HKMJ* 2017; 23(Suppl 3):34.
  31. Vacek D, **Leung GKK**. How doctors should approach risk disclosure when informing patients of their surgical operation during a preoperative meeting? The Hong Kong Neurosurgical Society. *HKMJ* 2017; 23(Suppl 3):41.
  32. Chien CPY, Tsang ACO, Tsang FCP, Ho WS, **Leung GKK**, Lui WM. Extracranial-intracranial bypass and craniofacial resection for complex skull base tumour involving the internal carotid artery. *HKMJ* (2017); 23(Suppl 3):S11.
  33. Lam YY, **Leung GKK**. Knowledge and expectations of the general public in Hong Kong on the symptomatology, risk factors, and contemporary management of acute stroke. *HKMJ* (2017); 23(Suppl 3):S19.
  34. Yee HF, Tsang FCP, **Leung GKK**. Transluminal angioplasty for the treatment of cerebral vasospasm following subarachnoid haemorrhage: A ten-year retrospective review. *HKMJ* (2017); 23(Suppl 3):S19.
  35. Lui FCW, Taw BBT, Lau E, Lam TC, Lee VHF, Leung DKC, **Leung GKK**, Lui WM. Whole-brain radiotherapy for more than three brain metastases: A single- centre experience. *HKMJ* (2017); 23(Suppl 3):S26.
  36. Hwang AC, Cheng KF, **Leung GKK**, Ho WWS, Lui WM. Spinal Lipoma of the Filum Terminale: Review of 30 Patients in Queen Mary Hospital. *HKMJ* (2017); 23(Suppl 3):S32.
  37. Zhang P, **Leung GKK**. Quinacrine may increase the cytotoxicity of temozolomide in glioblastoma via autophagy inhibition. *HKMJ* (2017); 23(Suppl 3):S33.
  38. Cheng SY, **Leung GKK**. Progesterone benefits experimental non-operable glioma-bearing rats in aspects of survival and neurofunctional deterioration. *HKMJ* (2017); 23(Suppl 3):S33.
  39. Li N, **Leung GKK**. Caffeine sensitises temozolomide's chemo-efficacy by impeding cell cycle arrest in the glioma cell line. *HKMJ* (2017); 23(Suppl 3):S34.



40. Vacek D, **Leung GKK**. How doctors should approach risk disclosure when informing patients of their surgical operation during a preoperative meeting. *HKMJ* (2017); 23(Suppl 3):S41.
41. Ting YT, **Leung GKK**. Spontaneous acute spinal subarachnoid haematoma as a complication of warfarin therapy. *HKMJ* (2017); 23(Suppl 3):S45.

#### Other Publications

1. **Leung GKK**. Pituitary surgery. *Hong Kong Medical Diary* 2003; 8(9):4-5.
2. Liu CY, Poon W, **Leung G**, Laws ER. Father of neurosurgery in Hong Kong – comments. *Neurosurgery* 2004; 54(4):990-991.
3. **Leung GKK**. Stem cells: from bench to bedside - Neurological Applications. *Hong Kong Medical Diary* 2007; 12(4):26.
4. Fan YW, Leung GKK. Management of seizure associated with brain tumours. *Med Bulletin* 2006; 11:11-12.
5. **Leung GKK**. In: ‘Brain Tumour’ by The Hong Kong Anti-Cancer Society, 2007.
6. **Leung GKK**. Medicine as our liberal arts. *Hong Kong Medical Diary* 2009; 14(8):15-16.
7. **Leung GKK**, Hung KN, Poon P, Tsang M. Physiotherapist-led ventilator liberation protocol for acute neurosurgical patients. *Hong Kong Physiotherapy Association Bulletin* 2009; 13(4):10-14.
8. **Leung GKK**. Potential use of umbilical cord blood cells in the treatment of spinal cord injury. *Hong Kong Medical Diary* 2010; 15(9):29.
9. **Leung GKK**. Incidental sellar lesion. *Hong Kong Medical Diary* 2011; 16(2):22-23.
10. **Leung GKK**. In: ‘Brain tumour’ by The Hong Kong Anti-Cancer Society, 2011.
11. **Leung GKK**, Wong YW. ‘Spinal cord injury.’ In: Explore the World of Medicine: Public Lecture Series 2009 and 2010, The University of Hong Kong (2012).
12. **Leung GKK**. Audit on informed consent - just in time for Montgomery. *Surg Pract* 2015; 19:187-8.
13. **Leung GKK**. Normal pressure hydrocephalus - a potentially reversible cause of dementia. *Health Action* 2016; 114:56.
14. **Leung GKK**. Editorial: if we do not take charge of ourselves, someone else would (have to). *Surg Pract* 2016; 20:141.

15. Cheung AH, **Leung GK**. In reply to ‘Moyamoya disease: impact of evolving different management approaches to improve overall neurologic outcome. *World Neurosurg* 2017; 102:687.
16. **Leung GKK**. ‘手術可以改善認知能力下降嗎？ - 育醫造才：探索醫學世界, 第五冊. (2018) 香港大學李嘉誠醫學院.

### Editorial Responsibilities

2005-2010 Associate Editor, *Asian Journal of Surgery* (Elsevier).

2012-present Associate Editor, *Surgical Practice* (Wiley).

2015-present Review Editor, *Frontier in Neurosurgery* (Frontiers).

Invited reviewer for:

- Neurosurgery
- Journal of Neurosurgery
- World Neurosurgery
- Journal of Neuro-oncology
- Child’s Nervous System
- Brain Research
- Oncotarget
- Molecular Therapy
- Molecular Cancer Therapeutics
- Tumour Biology
- Molecular Pharmaceutics
- Head and Neck
- Cellular and Molecular Immunology
- Translational Cancer Research
- BMJ Open
- Hong Kong Medical Journal
- Surgical Practice
- Drug Design, Development and Therapy
- Stem Cell and Translational Medicine

## B. Invited Lectures

### Regional/International Conferences

1. 'The impact of trauma system on acute subdural haematoma.' The 4<sup>th</sup> Medical Symposium of the First Affiliated Hospital of Sun Yat-sen University of Medical Sciences. (Guangzhou, Dec 1999)
2. 'Development of trauma system in Hong Kong.' The 16<sup>th</sup> Asian Congress of Surgery & The 2007 Chinese Surgical Week. (Beijing, Oct 2007)
3. 'Trauma system and traumatic brain injury.' Conjoint Shenzhen, Hong Kong, Macau and Taiwan Neurosurgical Scientific Meeting. (Shenzhen, Nov 2008)
4. 'Minicase writing and problem-based learning.' Peking University Health Science Centre Education Symposium. (Beijing, Dec 2009)
5. 'An update on the management of traumatic brain injury.' Guangdong Provincial Neurotrauma Conference. (Peking University Shenzhen Hospital, Nov 2010)
6. 'Cord blood mononuclear cell transplant trial.' The 49<sup>th</sup> Meeting of the International Spinal Cord Society. (New Delhi, Oct 2010)
7. 'Current concepts in the management of post-traumatic syringomyelia.' The 49<sup>th</sup> Meeting of the International Spinal Cord Society. (New Delhi, Oct 2010)
8. 'Trauma system development in Hong Kong.' The 18<sup>th</sup> Asian Surgical Congress. (Cebu, Apr 2011)
9. 'Recurrent malignant glioma.' Current Trend in the Management of Malignant Glioma. (Taiwan, Sep 2011)
10. 'Outcome-based training in Surgery.' International College of Surgeons Medical Education Conference. (Macau, Dec 2011)
11. 'Clinical teaching and problem based learning.' Clinical Teaching Reform, Peking University Health Science Centre. (Beijing, Feb 2012)
12. 'Clinical trial of umbilical cord blood cell for spinal cord injury: protocol and surgery.' International Association of Neurorestoratology and the 9<sup>th</sup> Global College Neuroprotection and Neuroregeneration Conference. (Xian, May 2012)
13. 'Patient safety in clinical education.' The International Medical School of Jinan University. (Guangzhou, June 2012)
14. 'Acquired temozolomide resistance in glioblastoma.' Current Trend in the Management of Glioma. (Beijing, Oct 2012)
15. 'A proteomics approach in the translational studying of chemoresistance in malignant glioma.' Laboratory Seminar, The Macau University of Science and Technology.

(Macau, Nov 2012)

16. 'To err is human - Patient safety education.' The Medical College of Jinan University, Guangzhou. (Guangzhou, Nov 2012)
17. 'Traumatic brain injury in Hong Kong.' The First Macau-Hong Kong Neurosurgical Symposium. (Macau, March 2013)
18. 'How effective is the tiered trauma cluster?' Singapore Trauma 2013. (Singapore, Apr 2013)
19. 'The role of decompressing craniectomy in traumatic brain injury.' Singapore Trauma 2013. (Singapore, Apr 2013)
20. 'Endoplasmic reticulum stress response in glioblastoma chemoresistance.' Taiwan Neuro-oncology Symposium 2013. (Taipei, Mar 2013)
21. 'Trauma system development - lessons learnt and the way forward.' Asian Surgical Congress 2013. (Singapore, July 2013)
22. 'Endoplasmic reticulum stress response in glioblastoma chemoresistance.' 2013 Current Trend in the Management of Malignant Glioma. (Mahidol University, Bangkok, Sept 2013)
23. 'Translational Research in neurosurgery at HKU.' Joint Symposium. Jinan University, Laboratory for Brain Function and Health. (Guangzhou, Oct 2013).
24. 'Traumatic brain injury in Hong Kong - history, development, system and translational research.' Tiantan Hospital Neurosurgical institute, Capital Medical University, Beijing (Jan 2014)
25. 'Trauma service in Hong Kong'. Global Emergency Medicine Conference, HKU Shenzhen Hospital (Shenzhen, Jun 2014)
26. 'Changing patient safety culture amongst undergraduates by working with the "Dark Force".' The 12th Asia Pacific Medical Education Conference. (Singapore, Feb 2015)
27. 'Management of traumatic brain injury – current status and development'. The 14th Asian Australasian Congress of Neurological Surgeons. (Jeju Island, Korea, Apr 2015)
28. 'Translational research in neuroprotectn against surgical brain injury ' National Neuroscience Institute. (Singapore, Feb 2015)
29. 'Traumatic brain injury guideline – an update'. Neurotrauma Workshop. Asian Australasian Society of Neurosurgical Surgeons. (Nepal, Oct 2015)
30. Update on the Management of Traumatic Brain Injury.' Global Emergency Medicine meeting 2015. (Shenzhen, Nov 2015)
31. 'Management of traumatic brain injury.' Annual Scientific Meeting of the Taiwan Neurosurgical Society. (Taipei, Dec 2015)

32. 'Prehospital trauma care in Hong Kong', Phnom Penh Conference on Essential and Emergency Surgery. (Phnom Penh, Mar 2016)
33. 'Neurotrauma Management: Towards the Next Decade - A Peek into the Future', Singapore Trauma Conference 2016. (Singapore, Apr 2016)
34. 'Trauma Master Class: Defining roles in the trauma system', Singapore Trauma Conference 2016. (Singapore, Apr 2016)
35. 'Trends of Trauma Care in the Past Decade', Singapore Trauma Conference 2016. (Singapore, Apr 2016)
36. 'Long non-coding RNA in brain and other cancers', Macau-Hong Kong Multidisciplinary Scientific Conference. (Macau, May 2016)
37. 'Trauma care for the elderly - what is the right thing to do?' Biannual Sino-Asia-Pacific Medical Forum. (Macau, May 2016)
38. 'Leukotomy - a historical and modern perspective of a Nobel Prize legacy', Faculty of Medicine, Jinan University. (Guangzhou, May 2016)
39. 'An update on the evidence-based management of TBI', International Symposium on Neurotrauma and Mass Disaster Management (Surabaya, Aug 2016)
40. 'The development of ATLS in China' The 4<sup>th</sup> China-US Trauma and Emergency Medicine Conference. (Shenzhen, Nov 2017)
41. 'Geriatric trauma – limit and opportunities' Asian Surgical Congress. (Tokyo, Nov 2017)
42. 'ATLS in Region XVI – the untold story' American College of Surgeons Global Symposium. (San Antonio, Mar 2018)
43. 'Decompressive craniectomy versus craniostomy in traumatic brain injury' Neurotrauma 2018, Neurotrauma Society of India. (Lucknow, Aug 2018)
44. 'Prehospital care for traumatic brain injury' Neurotrauma 2018, Neurotrauma Society of India. (Lucknow, Aug 2018)
45. 'Current management of subdural haemorrhages' Neurotrauma 2018, Neurotrauma Society of India. (Lucknow, Aug 2018)
46. 'Long non-coding RNAs in glioma - preclinical and translational perspectives' The 14th Asian-Oceanian International Congress in Skull Base Surgery. (Taichung, Sept 2018)
47. 'The Enrichment Year at the University of Hong Kong'. QS Subject Focus Submit – Medicine. (Surabaya, Jan 2019)
48. 'Hong Kong Academy of Medicine – Role in postgraduate training of doctors' Sino-

Luso International Medical Forum. (Macau, Jan 2019)

### Local Conferences

1. 'Imaging in Neurosurgery.' Department of Anaesthesiology, Queen Mary Hospital. (Jul 2005)
2. 'Brainstem death.' Post-registration Certificate Course in Perioperative Nursing, Institute of Advanced Nursing Studies. (Jul 2005)
3. 'Brain metastasis.' Cancer Link. (Aug 2005)
4. 'Surgery for brain metastasis.' Hong Kong International Cancer Congress. (Nov 2006)
5. 'Stem cell therapy in neuron-regeneration.' The 4<sup>th</sup> Congress of Federation of Asian-Oceanian Neuroscience Societies (FAONS). (Nov 2006)
6. 'Brainstem death.' Post-registration Certificate Course in Perioperative Nursing, Institute of Advanced Nursing Studies. (May 2006)
7. 'Stem cells - from bench to bedside.' Annual Scientific Meeting. The Federation of Medical Societies of Hong Kong. (Jun 2006)
8. 'Cancer of brain and central nervous system.' Diploma in Oncology and Palliative Care for Health Care Professionals, HKU SPACE. (May 2008)
9. 'Tram-related motor vehicle crashes in Hong Kong.' Trauma Symposium 2008. Hospital Authority. (Nov 2008)
10. 'Updates on traumatic brain injury.' Annual Scientific Meeting, The Hong Kong College of Anesthesiologists. (Dec 2008)
11. 'Minimally invasive endoscopic surgery of anterior skull base.' The 15<sup>th</sup> Anniversary Congress, The Hong Kong Academy of Medicine. (Nov 2008)
12. 'MicroRNA and brain tumors.' Asian, Australasian, and Chinese Societies of Stereotactic and Functional Neurosurgery. (Jan 2009)
13. 'Spinal cord injury.' Public Lecture Series 2009, HKU. (Jun 2009)
14. 'An update on critical care of head injury.' Department of Anaesthesiology, Queen Mary Hospital (Jan 2009)
15. 'Traumatic brain injury in a developing trauma system in Hong Kong.' The 7<sup>th</sup> Annual Congress of Multidisciplinary Neurotraumatology. (Nov 2009)
16. 'Technical competency in neurosurgery.' The 7<sup>th</sup> Annual Congress of Multidisciplinary Neurotraumatology. (Nov 2009)

17. 'How to write a research paper.' Research Paper Writing Workshop, Hospital Authority. (Jan 2010)
18. 'Trauma services.' Symposium on Quality Improvement in Healthcare, Queen Mary Hospital. (Mar 2010)
19. 'Potential use of umbilical cord blood cells in neuro-regenerative therapy.' Annual Scientific Meeting, The Federation of Medical Societies of Hong Kong. (Jun 2010)
20. 'Exploring brain surgery.' The 12<sup>th</sup> Congress of the Life Underwriter Association (LUA). (Aug 2010)
21. 'State of the art treatment.' Current Trend in the Management of Malignant Gliomas: Translating Science Into Practice, Asia Pacific 2010. (Sep 2010)
22. 'Trauma system and traumatic brain injury.' The Royal College of Surgeons of Edinburgh and The College of Surgeons of Hong Kong Conjoint Scientific Congress. (Sep 2010)
23. 'Tumour of the central nervous system.' Diploma in Oncology and Palliative Care for Health Care Professionals, HKU SPACE. (Oct 2010)
24. '5-ALA-assisted resection of glioblastoma multiforme.' The 17<sup>th</sup> International Cancer Congress. (Nov 2010)
25. 'A promising therapy for spinal cord injury: umbilical cord blood and lithium combination to stimulate regeneration.' China Spinal Cord Injury Network Public Lecture. (Aug 2010)
26. 'Trauma service in Hong Kong.' Symposium on Trauma Surgery, The College of Surgeons of Hong Kong. (Jan 2011)
27. 'Neuroprotection for traumatic brain injury.' Commissioned Training in Trauma Care, Hospital Authority. (Jan 2011)
28. 'Endoscopic pituitary surgery - towards a minimally invasive approach.' Multi-specialty Medical Conference, Association of Private Medical Specialists of Hong Kong. (Apr 2011)
29. 'Endoscopic pituitary surgery.' The Hong Kong Surgical Forum. (Jul 2011)
30. 'How many trauma centres does Hong Kong need?' Kowloon Central Cluster Trauma Symposium 2011. (Sep 2011)
31. 'Combating temozolomide resistance in malignant glioma using a proteomics approach.' Brain 2012, Chinese University of Hong Kong. (Jan 2012)
32. 'Neurovascular trauma.' The Hong Kong Surgical Forum. (Jan 2012)

33. 'Neuroendoscopy.' *Advances in Endoscopy* 2012. (Mar 2012)
34. 'Endoscopic pituitary surgery.' The 41<sup>st</sup> Clinical Meeting of the Hong Kong Society of Minimal Access Surgery. (Apr 2012)
35. 'Managing haemostasis in brain tumor surgery.' *Innovations in Surgical Techniques: Biological Solutions for Neurosurgical and Spinal Surgical Procedures Meeting* (Sept 2012)
36. 'Endoscopic pituitary surgery – advantages, limitations and pitfalls.' The 7<sup>th</sup> International Huixia Congress of Endocrinology. (Dec 2012)
37. 'General structure of research paper.' Hospital Authority Research Paper Writing Workshop for High Surgical Trainees. (Dec 2012)
38. 'Introduction to research.' Research Training Workshop for Higher Surgical Trainees, The College of Surgeons of Hong Kong. (Mar 2013)
39. 'Endoscopic pituitary surgery.' Commissioned Training in 'Endoscopy-assisted neurosurgery', Hospital Authority. (Feb 2013)
40. 'Neurosurgeons' contributions in the management of cancer of the paranasal sinus.' Head and Neck Course, Department of Surgery, The University of Hong Kong. (June 2013)
41. 'Research planning and methodology.' Research Training Workshop for Higher Surgical Trainees, The College of Surgeons of Hong Kong. (Feb 2014)
42. 'Temozolomide resistance in malignant glioma – translational research and clinical perspectives.' The Hong Kong Neuro-oncological Society Symposium. (July 2014)
43. 'Management of traumatic brain injury – an update.' Commissioned Training in Intensive Care, Hospital Authority. (Jul 2014)
44. 'Patient safety in operating theatre.' Pre-conference programme, International Forum on Quality and Safety in Healthcare. (Hong Kong, Sept 2015)
45. 'Digital awakening - we can, but should we?' Hong Kong Surgical Forum. (Hong Kong, Oct 2015)
46. 'Haemoglobin-based oxygen carrier for cancer treatment' The 2nd International Conference on Phase 1 and early phase clinical trials. (Hong Kong 20 Nov 2015)
47. 'Research opportunities: Now and the future' Inaugural Research Talk, Asian Medical Students' Association Hong Kong. (Hong Kong, Nov 2015)
48. 'Potential roles of long non-coding RNA in glioblastoma multiforme'. *Brain* 2014 (H.K., Jan 2016)
49. 'Head transplant – are we ready?' Hong Kong Surgical Forum. (Hong Kong, Apr 2016)



50. 'Advances in the management of head injury in older people' The 12<sup>th</sup> International Symposium on Healthy Aging. (Hong Kong, Mar 2017)
51. 'Cross cultural perspectives on decision-making in Medicine and Surgery' The University of Chicago Center in Hong Kong. (Hong Kong, Mar 2017)
52. 'Medical curriculum design and assessment' Professional Exchange Programme, Institute of Professional Education, The Hong Kong Baptist Hospital. (Hong Kong, Jul 2017)
53. 'Advanced medical technology and the brain: Questions on personhood, patient autonomy and patient rights' Centre for Bioethics, Chinese University of Hong Kong. (Hong Kong, Sep 2017)
54. 'External ventricular drainage infection' Infection Control Courses, Hong Kong Academy of Medicine. (Hong Kong, Sep 2017)
55. 'Explore the World of Medicine - Brain death and transplantation ethics' Public Lecture Series, Li Ka Shing of Medicine, HKU. (Hong Kong, Nov 2017)
56. 'Corporate responsibilities and medico-legal principles in medical negligence' Administrative Medicine Round Table, Hospital Authority. (Hong Kong, 25 Nov 2017)
57. 'Brainstem death and non-heart-beating organ donation' Transplant Ethics: Looking Forward, The University of Chicago. (Hong Kong, Mar 2018)
58. 'Malpractice litigation in acute stroke care – where are we now?' The Hong Kong Stroke Society Scientific Meeting. (Hong Kong, Apr 2018)
59. 'Rapid automated computer evaluation of CT brain in acute ischaemic stroke and intracranial vessel occlusion'. Hospital Authority Convention 2018. (Hong Kong, may 2018)
60. 'Helmet legislation and injury prevention'. Hong Kong College of Orthopedic Surgeons Injury Prevention Conference. (Hong Kong, Aug 2018)
61. 'Medical professionalism: Yesterday's foundation for tomorrow's practice' HKU SPACE Executive Academy – Senior Health Executive Seminar. (Hong Kong, Jan 2019)
62. 'Big data analytics: Opportunities and challenges' Hong Kong Surgical Forum (Hong Kong, Jan 2019)
63. 'Competency-based approach and credentialing in postgraduate medical/dental training' The Hong Kong College of Dental Surgeons, curriculum reform seminar. (Hong Kong, Jan 2019)
64. 'Traumatic brain injury in the elderly – limits & opportunities' The Hospital Authority Commissioned Training - Enhancing Geriatric Trauma Management.

(Hong Kong, Feb 2019)

## C. Honours & Awards

- 1988 Foster Prize in Anatomy, The Medical College of St. Bartholomew's Hospital, University of London, U.K.
- 1992 Certificate of Merits in Pharmacology, Final M.B.B.S. Examination, The Medical College of St. Bartholomew's Hospital, University of London, U.K.
- 1994 Hallett Gold Medal, The Royal College of Surgeons of England, U.K.
- 2001 J. Douglas Miller Medal in Neurosurgery, The College of Surgeons of Hong Kong, H.K.
- 2006 Best Poster Presentation, The 13<sup>th</sup> Annual Scientific Meeting, The Hong Kong Neurosurgical Society, H.K. (**Leung GKK**. Initial experience with the PFA-100 analyzer in neurosurgical patients taking aspirin.)
- 2008 First Prize, Faculty of Medicine Essay Competition, Li Ka Shing Faculty of Medicine, The University of Hong Kong, H.K. (**Leung GKK**. Medicine as our liberal arts.)
- 2009 Faculty Teaching Medal, Li Ka Shing Faculty of Medicine, The University of Hong Kong, H.K.
- 2012 Outstanding Poster Presentation, Research Postgraduate Symposium, Li Ka Shing Faculty of Medicine, The University of Hong Kong, H.K. (**Leung GKK**, Wang YC, Wu WT. The impact of culturing techniques on the in vitro survival of transplantable cells in self-assembling peptide nanofiber scaffold.)
- 2012 Visiting Professorship, Joint Laboratory for Brain Function and Health, Jinan University, Guangzhou, People's Republic of China.
- 2015 Best Free Paper (as first-author), Joint 11<sup>th</sup> Biennial Convention of the ASEAN Neurological Association and 16<sup>th</sup> ASEAN Congress of Neurological Surgery. (**Leung GKK**. Differential expression of long non-coding RNA in gliomas with or without IDH-1 mutation.)
- 2017 Endowed Professorship – Tsang Wing-hing Professorship in Clinical Neuroscience.
- 2017 Prize for Best Distance Learning LLM Dissertation, School of Law, University of Edinburgh.
- 2017 McLagan Prize for Best Graduate in LLM (Medical law and Ethics), School of Law, University of Edinburgh.
- 2018 Fellowship of the Academy of Medicine of Malaysia.

## Research Grants

### External Peer-reviewed Competitive Grants as PI or Co-PI

- 2015 PI. Health and Medical Research Fund (HMRF), Food and Health Bureau, The Government of the HKSAR. (Project no: 02132536) (HK\$ 78,000) "Role of quercetin-3-rutinoside on chemosensitization of glioblastoma multiform to temozolomide." Completed .
- 2015 PI. Health and Medical Research Fund (HMRF), Food and Health Bureau, The Government of the HKSAR. (Project no: 02132186) (HK\$ 957,320) "Effects of progesterone versus dexamethasone on brain edema and inflammatory response following experimental brain resection." Completed.
- 2015 Co-PI. "Roles of exercise and stem cells in spinal cord injury recovery."("运动和干细胞在脊髓损伤修复中的作用"). (2015). (RMB 2,000,000) Guangdong Province Forefront and Key Technological Innovation Special Fund (Guangdong-Hong Kong Joint Innovation Projects) (广东省前沿与关键技术创新专项资金项目 (粤港联合创新领域)), Guangdong Science and Technology Department, People's Republic of China. Completed .

### External Non-competitive Grants as PI

- 2006 PI. Queen Mary Hospital Charitable Trust (HK\$50,000)(Ref: TRAS-06-01). Project: 'Survey on the utility of Traditional Chinese Medicine (TCM) in neurosurgical patients.' Completed.
- 2007 PI. Queen Mary Hospital Charitable Trust (HK\$50,000)(Ref: TRAS-06-03). Project: 'Health-related quality of life (HRQOL) in brain tumour patients.' Completed.
- 2008 PI. Queen Mary Hospital Charitable Trust (HK\$30,000)(Ref: TRAS-08-06). Project: 'Return to work as an outcome measure of trauma service – a single-centre pilot study.' Completed.
- 2010 PI. University Grant Council Matching Fund (HK\$45,000) (Ref: 0600554.52643.21700.400.01 and 20730466.52643.21700.400.01) Project: 'Potential use of microRNA-21 inhibitors in the modulation of chemoresistance in glioblastoma cells.' Completed.

### External Competitive Grants as Co-I

- 2007 Co-I. S.K. Yee Medical Foundation Grant (HK\$600,000)(Ref: 206112(U)). On 'Use of somatostatin analogs in the management of acromegaly.' Completed.

- 2012 Co-I. Intuitive Surgical Clinical Robotics Research Grant, Intuitive Surgical, Inc., U.K. (US\$50,000). Project: 'The Da Vinci vs. conventional laparoscopy: examining benefits for the surgeon.' Completed.
- 2013 Co-I. General Research Fund 2013-14) (HK\$378,595) (Project No: 748513) Project: 'Using wireless electroencephalography (EEG) to investigate psychomotor efficiency of surgical specialists and trainees.' Completed.
- 2013 Co-I. Innovative and Technology Fund (ITF) (HK\$933,110) (Project No: ITS/011/13) 'Stroke and intracranial aneurysm: patient specific computational and phantom studies.' Completed.
- 2014 Co-I. Innovative and Technology Fund Internship Programme (ITF) (HK\$150,387) (Project No: InP/008/14) 'Stroke and intracranial aneurysm: patient specific computational and phantom studies.' Completed .
- 2015 Co-I. Innovative Technology Fund (ITF/150/15). (HK\$1,271,957) "Fluid-structure interaction analysis of cerebral aneurysm: improved assessment of risk factors". Completed .
- 2016 Co-I. General Research Fund 2016-17. (Project no.: 17656116) (HK\$ 472,022) "The neural bases of multi-task training for promoting automaticity of technical skills in surgery." On-going.

#### HKU Internal Grants

- 2005 PI. Seed Funding for Basic Research (HK\$80,000)(Ref: 200509161005). Project: 'A prospective study on platelet functions in neurosurgical patients receiving aspirin.' Completed.
- 2008 Co-I. Seed Funding for Basic Research (HK\$120,000)(Ref: 200803159002). Project: 'Susceptibility-weighted and diffusion-tensor MR imaging in mild traumatic brain injury - a correlative study with cognitive clinical outcome.' Completed.
- 2010 Co-I. Small Project Funding (HK\$56,457)(Ref: 10401297.54831.21700.323.01). Project: 'Identification of therapeutic targets to combat glioblastoma drug resistance by proteomic profiling.' Completed.
- 2010 PI. Spinal Cord Injury Fund (HK\$521,340). Project: 'Safety and feasibility of umbilical cord blood cell transplant into injured spinal cord: an open-labeled, dose-escalating clinical trial.' Completed.
- 2011 Co-I. University Development Fund (HK\$500,000). Project: 'Functional magnetic resonance imaging presentation system.' Completed.

- 2011 PI. Small Project Funding (HK\$68,020)(Ref: 201007176176). Project: ‘Self-assembling peptide nanofiber scaffold as a potential neuro-regenerative biomaterial in surgically induced brain injury.’ Completed.
- 2011 PI. General Research Fund Incentive Award 2011-12 (HK\$21,000). Project: ‘Self-assembling peptide nanofiber scaffold (SAPNS) as a novel biomaterial for the prevention and treatment of surgical brain trauma.’ Completed.
- 2012 PI. General Research Fund Incentive Award 2012-13 (HK\$20,000)(Ref: HKU770812M). Project: ‘Can hyperbaric oxygen resensitize chemoresistant glioblastoma multiforme to temozolomide?’ Completed.
- 2013 Co-I. Seed Funding for Clinical Research. (HK\$50,000)(Ref: 201211159034). Project: ‘Pilot study of in vivo proton magnetic resonance spectroscopy (MRS) in detecting recurrent glioblastoma multiforme following radiotherapy and temozolomide, and bevacizumab treatments.’ Completed.
- 2013 Co-I. University Teaching and Development Grant (HK\$294,950) (Ref: 101000493.076769.20600.304.01) Project: ‘Enhancing experiential learning in neurosciences through providing mobile multi-media resources.’ On-going.
- 2013 PI. Special Allocation from Faculty Development Fund 2012-13 (HK\$500,000) Project: ‘Teaching and research in neurosurgery.’ On-going.
- 2014 PI. Small Project Funding (HK\$64,343) (Ref: 4002885.052643.21700.301.01) Project: ‘Combined treatment of progesterone and minimally invasive haematoma aspiration in experimental haemorrhagic stroke.’ Completed.
- 2014 Co-I. Theme-based Projects on Teaching and Learning (HK\$5,069,256) Project: ‘Interprofessional team-based learning for health professional students.’ On-going.
- 2016 PI. Seed Funding Programme for Basic Research (HK\$45,980) (Ref:201511159146) Project: ‘Potential roles of cytoskeleton protein, adducing 3, in glioblastoma resistance and steminess’. Completed.

## D. Applied Research & Knowledge Transfer

### Industrial Collaborations in Biomedical Sciences Research

- 2012 PI. Newai Limited, H.K. (HK\$1,500,000 funding). Project: ‘The use of YQ23, an artificial oxygen carrier, for the treatment of chemoresistant tumours and ischaemic stroke.’ Completed.

- 2013 PI. Novogen Limited, Australia. (US\$60,590 funding). Project: ‘Pre-clinical study on the anti-tumour effect of CS-6 in glioblastoma multiforme.’ Completed.
- 2015 PI. Newai Limited, H.K. (HK\$1,035,000 funding). Project: ‘Effects of a haemoglobin-based oxygen carrier, YQ23, on glioma stem cell growth and chemoresistance.’ Completed.
- 2016 PI. NoxoPharm, Australia. Project: ‘The efficacy of NOX-66 as a chemo- and radio-sensitizer for solid cancer’ for the setting up of a Small and Medium Enterprise under the HKSAR Government InvestHK initiative. Completed.

#### Collaborations with External Institutions

- 2009-2010 International Cancer Genome Consortium (ICGC) in collaboration with the Chinese University of Hong Kong, and the University of Science and Tecnology, H.K.
- 2010-present Professor H. Xue, Division of Life Science, University of Science and Technology, H.K., on genomic sequencing study in glioblastoma.
- 2010-2012 Professor M.C. Lin, Division of Neurosurgery, Department of Surgery, Chinese University of Hong Kong, H.K., on miRNAs in glioblastoma.
- 2011-2014 Dr Y.C. Wang, Department of Physiology, Jinan University, Guangzhou, People’s Republic of China, on the use of nanofibre peptide scaffold for neuro-regenerative therapy.
- 2012-2015 Dr S. Martin, Centre for Molecular Oncology, Barts Cancer Institute, University of London, U.K., on glioblastoma chemoresistance.
- 2012-2014 Dr Z.H. Jiang, Faculty of Chinese Medicine, Macau University of Science and Technology, Macau, on a lipidomics study of glioblastoma.
- 2014-present Dr Cesar S.C. Wong, Cancer Genomic and Bioinformatics, The Polytechnic University, on brain tumour genome sequencing.
- 2016-present Professor Larry Chow, Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong, on the development of flavonoid dimers in modifying ABC transporters for the treatment of glioblastoma.
- 2017-present Dr Patty Chan, Department of Engineering, The University of Hong Kong, Hong Kong, on the development of a microsensor for the real-time detection of inflammatory markers for the brain.

2017-present PI. Hospital Authority. Project: 'Big data analysis – Rapid automated computer evaluation of computer tomography brain in acute ischaemic stroke and intracranial vessel occlusion.' On-going.



## E. International Standing

### Leadership Roles with International/Regional Organizations

- 2011-2015 Member, China Spinal Cord Injury Network (ChinaSCINet). Involved in the design and execution of clinical trials of cell-based transplantation for spinal cord injury and stroke.
- 2012-present Visiting Professorship, Joint Laboratory for Brain Function and Health, Jinan University, Guangzhou, People's Republic of China. Involving research seminars, research collaborations, and the acquisition of competitive government grants in Mainland China.
- 2016-present Co-PI, Hong Kong Epigenomics Project, International Epigenomics Consortium. Invited to participate in the areas of glioma and brain tumour epigenomics study.
- 2016-present Region Chief (XVI), Advanced Trauma Life Support International, Committee on Trauma, American College of Surgeons. Training and conduction of international research projects on trauma care.
- 2014-present International Traveling Faculty, Neurotrauma Committee, Asian Australasian Congress of Neurological Surgeons.
- 2015-2017 Vice-President, Asian Surgical Association.

### International Multi-centered Clinical Trials

(PI, Principal Investigator; Co-I, Co-Investigator)

1. PI. 'Establishment of baseline and comparative infection rates for the Codman BACTISEAL™ external ventricular drainage (EVD) system – a Phase III international multicentered study.' (Protocol No: BAC-IN02-002). Completed.
2. PI. 'A registry for comparing catheter-related infection rates among various shunt systems in the treatment of hydrocephalus. An international multi-centered study.' (Protocol No: CRI-IN04-001). Completed.
3. Co-I. 'ImpACT-1: Implant for augmentation of cerebral blood flow trial.' study.' Completed.
4. PI. 'Umbilical cord mononuclear stem cell transplantation trial for spinal cord injury – A Phase I/II clinical study.' (Protocol No: CN-102b). Completed.
5. Co-I. 'AVAglio Study. A randomized, double blind, placebo controlled, multicentre Phase III trial of bevacizumab, temozolomide and radiotherapy followed by bevacizumab and temozolomide versus placebo, temozolomide and radiotherapy followed by placebo

and temozolomide in patients with newly diagnosed glioblastoma.’ (Protocol number: BO21990). Completed.

6. Co-I. ‘CENTRIC study. Cilengitide in subjects with newly diagnosed glioblastoma multiforme and methylated MGMT gene promoter - a multicenter, open-label, controlled Phase III study, testing cilengitide in combination with standard treatment (temozolomide with concomitant radiation therapy, followed by temozolomide maintenance therapy) versus standard treatment alone.’ (Protocol number: EMD 121974-011). Completed.
7. PI. ‘CAPTAIN study. A randomized, double-blind, placebo-controlled trial to investigate safety and efficacy of Cerebrolysin in patients with traumatic brain injury.’ (Protocol No: EVE-CN-0610). Completed.
8. PI. ‘An exploratory clinical trial to assess treatment of chronic ischemic stroke with brain transplants of purified CD34<sup>+</sup> umbilical cord blood stem cells.’ (Protocol No: STEM-09-TW-01). Planning stage.

## F. Leadership & Mentoring of Junior Staff

### Principle Supervisor of Research Post-graduate Students

(See under 'Teaching and Learning' section for details)

1. Seven PhD students (one completed; six on-going)
2. Two MPhil student (one completed; one on-going)
3. Three MS students (one completed; two on-going)
4. Three MMedSc students (all completed)
5. Four MResMed students (two completed; two on-going)

### Research Awards Obtained by Junior Staff under Supervision

1. Best Free Paper. Annual Scientific Meeting, The Hong Kong Neurosurgical Society, H.K. (2010) (Sun S, **Leung GKK**. Proteomic alterations associated with acquired temozolomide resistance in human malignant gliomas: the role of proly 4-hydroxylase, beta polypeptide.)
2. Best Free Paper. Annual Scientific Meeting, The Hong Kong Neurosurgical Society, H.K. (2011) (Tsang ACO, Leung KM, **Leung GKK**, Lui WM. Carotid blowout syndrome: ECIC bypass and endovascular management of ruptured radiation-related pseudoaneurysm in nasopharyngeal cancer patients.)
3. Best Free Paper. Annual Scientific Meeting, The Hong Kong Neurosurgical Society, H.K.(2012) (Tsang ACO, Chow KW, Leung KM, **Leung GKK**. Computer fluid dynamics study of intracerebral aneurysm after flow diverter treatment.)
4. Best Free Paper. The 5<sup>th</sup> World Conference of Intracerebral Haemorrhage cum the 20<sup>th</sup> Annual Scientific Meeting of the Hong Kong Neurosurgical Society, H.K. (2013) (Xu FF, Sun S, Ho ASW, Lee D, Kiang KMY, **Leung GKK**. The effects of progesterone versus dexamethasone on brain oedema and inflammatory responses following experimental brain resection.)
5. Best Resident Paper. The Advanced Trauma Life Support (ATLS) Region XVI Annual Meeting, American College of Surgeons. (2014) (Chow F, Wong HT, **Leung GKK**. Clinical parameters predicting in-hospital mortality in geriatric patients following severe trauma: a 15-year experience.)
6. Best Oral Poster. Annual Scientific Meeting, The Hong Kong Neurosurgical Society, H.K. (2014) (Zhang XQ, **Leung GKK**. Long non-coding RNA CRNDE regulates glioma growth via EGFR signaling pathway.)
7. Best Poster Award. Frontiers and Medical and Health Sciences Education 2016, H.K. (2016) (Vacek D, Wong S, **Leung GK**. What young doctors should learn about risk disclosure when informing patients waiting operations?)

8. Two PhD students (Zhu Zhi-yuan, Li Ning) have been awarded the HKU Postgraduate Fellowship in Neurosurgery in 2018.

#### Competitive Research Grants Obtained by Junior Staff under Supervision

1. Dr Frank Zhu, Post-doctoral Fellow. General Research Fund 2016-17. (Project no.: 17656116) (HK\$ 472,022) “The neural bases of multi-task training for promoting automaticity of technical skills in surgery.” On-going.
2. Dr Anderson Tsang, Clinical Assistant Professor. Health and Medical Research Fund, Research Fellowship Scheme 2016-17. (Project no.: 01150027) (HK\$ 1,129,905) “Emergency endovascular thrombectomy for acute ischaemic stroke patients in Hong Kong – a randomized controlled trial and prospective cohort study.” On-going.

#### Grant Review Board

- 2015-present Member, Grant Review Board, Health and Medical Research Fund, The Government of the Hong Kong Special Administrative Region.
- 2017-2021 Member, Research Fellowship Assessment Panel (RFAP), Food and Health Bureau, The Government of the Hong Kong Special Administrative Region.

#### Ad hoc Grant Reviewer

- 2018 Neurological Foundation of New Zealand

### G. Other Research-related Activities

- 2011-2015 Member, China Spinal Cord Injury Network.
- 2011-2015 Member, Stem Cell & Regenerative Medicine Consortium, HKU.
- 2013-2015 Member, Strategic Research Theme on Neuroscience, HKU.
- 2013-2015 Scientific Advisor, Novogen Ltd, New South Wales, Australia.
- 2015-2016 Scientific Advisory Board, NewA Innovation Limited, Hong Kong.
- 2017-present Council Member, Hong Kong Scientist Association (香港科學工作者協會).

## **Teaching & Learning:**

### A. Undergraduate Teaching & Learning at HKU

#### Leadership Positions

- 2008-2016 Assistant Dean (Trainee & student affairs), HKU.
- 2016-2018 Assistant Dean (Admission), HKU.
- 2018-present Associate Dean (Teaching & Learning), HKU.
- 2010-2016 Co-Director, MBBS III/IV Programme, HKU.
- 2012-2018 Director, Centre for Education and Training, Department of Surgery, HKU.
- 2012-present Co-Director, Exchange of Best Practice Programme, Bau Institute of Medical and Health Sciences Education, HKU.

#### Primary Teaching Responsibilities

1. Whole class session in neuroanatomy for MBBS II.
2. Whole class sessions in neurosurgery for MBBS IV & V
3. Whole class sessions in medical law & ethics for MBBS IV & V.
4. Revision lecture in neurosurgery for MBBS VI.
5. Tutorials in neurosurgery for MBBS VI.
6. Tutorials in Medical Ethics for MBBS VI.
7. Bedside teaching in neurosurgery for MBBS VI.
8. Healthcare Research Project supervision for MBBS IV.
9. Tutor in Medical Humanities Programme

#### Curriculum Development and Innovation

- 2005 Introduction of simulation technology for OSCE.

- 2008 Introduction of procedure-based approach to the teaching of neuroanatomy, leading to the subsequent appointment of Honorary Assistant Professorship at the then Department of Anatomy.
- 2008 Introduction of the American College of Surgeons' *Trauma Evaluation Assessment and Management* course (a student version of the Advanced Trauma Life Support course) to the MBBS curriculum.
- 2009 Introduction of a Patient Safety module to the MBBS and nursing curricula.
- 2011 Active involvement in the new 3+3+4 curriculum reform.
- 2013 Collaborator in the Teaching Development Fund Project: 'Enhancing experiential learning in neurosciences through providing mobile multimedia resources.'
- 2014 Member of the Working Group on a Theme-based Project: 'Inter-professional team-based learning for health professional students.'
- 2014 Establishing a collaboration with the Institute of Human Performance, HKU, on the modulation of neural activities related to surgical skill training.
- 2015 Initiating the establishment of an e-learning platform for clinical skills in Surgery.
- 2016 Introducing the use of bed-side ultrasonography as a core clinical skills in Surgery.
- 2016 Establishment of the 'Mui Chok Sing Prize in Clinical Neuroscience' for MBBS students.
- 2016 Reform of the Internship Training Curriculum.
- 2016 Introduction of an Assistant Internship Programme.
- 2017 Establishment of a HKU Postgraduate Fellowship in Neurosurgery (with private donation)
- 2018 Member of Curriculum Review Panel, Centre of Medical Law and Ethics, Faculty of Law, The University of Hong Kong.
- 2019 Modernisation of the MBBS Programme, The University of Hong Kong.

#### Awards in Teaching and Learning

- 2009 Faculty Teaching Medal, Li Ka Shing Faculty of Medicine, HKU.

### Other Undergraduate Teaching Responsibilities

- 2005-2006 Assistant Coordinator, MBBS IV Senior Clerkship in Surgery.
- 2005-2009 Director, Elective Student Programme, Department of Surgery.
- 2005-2010 Coordinator, Clinical Skills & Interpersonal Skills Sub-committee.
- 2005-2010 Coordinator, MBBS I Assessment Subcommittee.
- 2005-2014 Coordinator, MBBS II Central Nervous System Block Planning Group.
- 2006-2010 Coordinator, MBBS I Introduction to Health & Disease Block Planning Group.
- 2006-2010 Member, Special Study Modules Sub-committee.
- 2006-2011 Supervisor, Medical Engineering Programme (Final Year Project).
- 2007-2010 Coordinator, MBBS III Junior Clerkship in Surgery.
- 2010-2016 Assessment Coordinator, MBBS III/IV Coordinating Sub-committee.
- 2010-present Chairman, ad hoc Thesis Examination Committee for PhD studies.
- 2018-present Chairman, Medical Law and Ethics Programme.
- 2012-2016 Chief Examiner, MBBS III & V Summative Examination.
- 2012-present Member, MBBS Curriculum Committee.
- 2013-present Member, Medical Humanities Programme.
- 2013-present Faculty Representative, Intensive Learning Opportunity Programme (ILOP).
- 2013-2017 Chairman, Summer Broadening Programme.
- 2015-present General Advisor, Asian Medical Students' Association Hong Kong.
- 2018-present Chairman, Emergency Medicine Programme.
- 2018-present Chairman, Medical Ethics and Humanities Programme

## B. Postgraduate Teaching & Learning at HKU

### Post-graduate Research Student Mentorship

1. Principal (and sole) Supervisor. Master of Medical Sciences (MMedSc) student (Dr. Benedict Taw). Thesis: 'Socio-economic impact of mild head injury in Hong Kong'. Completed in December 2008.
2. Principal Supervisor (with one co-supervisor). MPhil student (Mr. Steven Sin). Thesis: 'Chloride channels in glioma cell invasion'. Completed in August 2008.
3. Principal (and sole) Supervisor. Master of Medical Sciences (MMedSc) student (Dr Peter Y.M. Woo). Thesis: 'Clinical and angiographic risk factors for recurrent intracranial aneurysms treated by primary endovascular coil embolization: a multi-centre retrospective study in Hong Kong'. Completed in December 2010.
4. Principal Supervisor (with one co-supervisor). Master of Research in Medicine (MResMed) student (Mr. Timothy Un). Thesis: 'Effects of dexamethasone and progesterone treatment on experimental brain injury induced by surgical electrocautery.' Completed in December 2012.
5. Principal Supervisor (with one co-supervisor). Master of Research in Medicine (MResMed) student (Mr. James Zhang). Thesis: 'Adducin 3 and temozolomide resistance in glioblastoma multiforme.' Completed in December 2012.
6. Principal Supervisor (with one co-supervisor). PhD student (Ms Xiaoqin Zhang). Topic: Epigenomics molecular biology of malignant glioma. On-going.
7. Principal (and sole) Supervisor. Master of Surgery (MS) student (Dr Jenny K.S. Pu). Topic: Treatment of malignant glioma. Completed in May 2016.
8. Principal (and sole) Supervisor, Master of Surgery (MS) student (Dr C.W. Siu). Topic: cerebrovascular diseases. On-going.
9. Principal Supervisor (with one co-supervisor), PhD (part-time) student (Ms Karrie K.Y. Kiang). Topic: Lipid metabolism in glioblastoma chemoresistance. On-going.
10. Principal (and sole) Supervisor, Master of Medical Sciences (MMedSc) student (Mr Derek Lee). Topic: MicroRNA in glioblastoma chemoresistance. Completed in October 2014.
11. Principal Supervisor (with one co-supervisor), PhD (full-time) student (Dr Leo Ning Li). Topic: Oligodendrocyte precursor cell in spinal cord injury. On-going.
12. Co-supervisor, PhD (full-time) student (John Chi Wang Ho). Topic: Long non-coding RNA in breast cancer. On-going.
13. Principal Supervisor (without co-supervisor), PhD (part-time) student (Dr Stephen Y Cheng). Topic: effect of progesterone in sensorimotor cortex ablation. On-going.



14. Principal Supervisor (with one co-supervisor). PhD (full-time) student (Dr Zhi Yuan Zhu). Topic: Potential role of long non-coding RNA in determining chemoresistance in glioblastoma. On-going.
15. Principal Supervisor (with one co-supervisor). PhD (full-time) student (Dr Jin Lei). Topic: Chemoresistance in glioblastoma multiforme. On-going.
16. Principal Supervisor (with one co-supervisor). MPhil (full-time) student (Ms Liu Jiaxin). Topic: Neuroprotection for intracerebral haemorrhage. On-going.
17. Principal Supervisor (with one co-supervisor), PhD (full-time) student (Ms Yao Min). Topic: Spinal nerve root avulsion injury. On-going.

See also under ‘Research & Scholarship/Leadership & Mentoring of Junior staff’ for awards and grants obtained by students under supervision.

#### Invited External Examiner

- |      |   |
|------|---|
| 2014 | External Examiner, PhD student (Mr Aden K.Y. Chan), Department of Pathology, Faculty of Medicine, Chinese University of Hong Kong (July 2014)     |
| 2018 | External Examiner, PhD Student (Ms Zhang Rui-qi Rikki), Department of Pathology, Faculty of Medicine, Chinese University of Hong Kong (July 2018) |

## C. Professional Training

See also under 'Service in Professional Organizations and Societies' for details.

### Major Contributions

- 2016-present   Overseeing postgraduate training and credentialing at a territory-wide level as the Chairman of the Education Committee (and the Vice-President) of the Hong Kong Academy of Medicine.
- 2015-present   International promulgation of the Advanced Trauma Life Support (ATLS) Programme as the Region Chief of the American College of Surgeons.
- 2014-present   Traveling Faculty of post-graduate courses in low-/middle-income countries on behalf of the Asian Australasian Congress of Neurological Surgeons.
- 2012-2016     Quality assurance for the Intercollegiate Board of Examination in Surgery with the Royal College of Surgeons of Edinburgh and the College of Hong Kong.
- 2012-2016     Neurosurgery Board, College of Surgeons of Hong Kong.
- 2015-present   Member, Global Neurosurgery Initiative.
- 2015-2018     Organizer and Examiner of the Licensing Examination of the Medical Council of Hong Kong.
- 2016-present   Member, Central Training and Development Committee, Hospital Authority.
- 2017-present   Chairperson, Best Original Research by Trainees Award, Hong Kong Academy of Medicine.
- 2017-present   Examiner, Membership of the Hong Kong Intercollegiate Board of Surgical Colleges (MHKIBSC).
- 2018-present   Examiner, RCSEd/CSHK Joint Surgical Examination in Neurosurgery.
- 2017-2018     Supervisor, Cheng Yu Tung Fellowship, Dr Xu Hong-wu (Senior Research Fellow).

## **Clinical and Administrative Services:**

### **A. Clinical Service**

#### Leadership Positions

- 2007-2018 Director of Trauma Service, Queen Mary Hospital, H.K.
- 2008-2014 Chairman, Hospital Authority Central Committee (Trauma Service), H.K.
- 2012-2014 Deputy Chief of Service in Neurosurgery, Queen Mary Hospital, H.K.
- 2012-2017 Division Chief of Neurosurgery, Department of Surgery, HKU-Shenzhen Hospital, People's Republic of China.
- 2012-present Co-chairman, Clinical Working Group in Neurosciences, Queen Mary Hospital Redevelopment Project, H.K.
- 2018-present Co-chairman, Clinical Working Group in Education and Training, Queen Mary Hospital Redevelopment Project, H.K.

#### Primary Clinical Service Responsibilities

1. Full-time clinical duties as an Honorary Consultant Neurosurgeon; in charge of pituitary surgery programme, endoscopic skull base surgery and neurotrauma.
2. Management of trauma service at Queen Mary Hospital, Hong Kong (until 2018)
3. Steering of Queen Mary Hospital Redevelopment in the area of Clinical Neurosciences.
4. Service planning and development at the HKU-Shenzhen Hospital, and the Gleneagles Hospital Hong Kong. Establishment of systematized trauma and acute stroke services. Secured RMB 1 million donation for the development of acute stroke service at HKU-SZH.

#### Other/Previous Clinical Service Positions

- 2005-2013 Honorary Associate Consultant in Neurosurgery, Queen Mary Hospital, H.K.
- 2012-2014 Deputy Chief of Service in Neurosurgery, Queen Mary Hospital, H.K.
- 2012-present Member, Clinical Service Plan for Intensive Care, Queen Mary Hospital, H.K.
- 2014-present Member, COC (Neurosurgery), Hospital Authority, H.K.

## B. University/Faculty/Department Administrative Service

### Leadership Positions in Administrative Service

2008-present Associate Dean (Teaching & Learning), Li Ka Shing Faculty of Medicine.

2010-2013 Elected Member of the University Senate.

2012-2018 Director, Centre of Education and Training, Department of Surgery.

### Primary Administrative Responsibilities

1. Responsible for a wide range of duties in the area of student affairs, admission, assessment, and curriculum development.
2. Representing the Faculty at the Hospital Authority and the Medical Council of Hong Kong regarding post-graduate training.
3. Policy-making at the Departmental Executive Committee level.

### Other/Previous University Positions

2012-2013 Member, Disciplinary Committee.

2012-2014 Member, Committee of Enquiry into Possible Good Cause.

2012-present Voting Member, HKU Foundation.

2013-2017 Member, Selection Panel, HKU Mentorship Programme.

### Other/Previous Faculty Positions

2006-present Faculty Representative, Board of Faculty of Dentistry.

2007-present Member, Committee on Public Lecture Series.

2008-2012 Member, Committee on Serena Yang Fellowship in Nursing Studies.

2008-present Member, Committee on Madam SH Ho Residence.

2008-2013 Scientific Member, Institutional Review Board.

- 2008-2011 Member, Board of Directors, Clinical Trial Centre.
- 2011-2013 Member, Editorial Board, Medical Faculty News.
- 2011-2013 Members, Faculty-based Crisis Management Team.
- 2012-2016 Faculty Coordinator, Central Internship Committee, Hospital Authority, H.K.
- 2013-2014 Deputy Chairman, Institutional Review Board.
- 2013-2016 Chairman, Selection Committee of Medical Loan Fund.
- 2013-2016 Director, Summer Broadening Programme.
- 2013-2016 Director, Well-being Committee.
- 2013-2016 Faculty Representative, Academic Advising Committee.
- 2014-present Faculty Representative, Grievances Panel for Students.
- 2014-2016 Faculty Representative, First year Experience Committee.
- 2018-2020 Medical faculty Human Resources Committee.

Other/Previous Departmental Positions

- 1999-2009 Chief Editor, Staff Newsletter.
- 2000-2002 Chief of Residents.
- 2006-present Member, Research Committee.
- 2011-2013 Director, Publicity Committee.
- 2016-present Executive Committee.

## C. Service in Professional Organizations and Societies

### Leadership Positions in Professional Bodies

- 2015-2017 Vice-president, Asian Surgical Association.
- 2015-present Region Chief (XVI), Advanced Trauma Life Support International, Committee on Trauma, American College of Surgeons.
- 2016-present Governor, The American College of Surgeons, China-Hong Kong Chapter.
- 2015-2016 Vice-chairperson, Education and Examination Committee, The Hong Kong Academy of Medicine.
- 2016-present Chairperson, Education and Examination Committee, The Hong Kong Academy of Medicine.
- 2016-present Vice-President (Education & Examination), The Hong Kong Academy of Medicine.
- 2014-present Member & International Faculty, Neurotrauma Committee, Asian Australasian Congress of Neurological Surgeons.
- 2015-present Member, Global Neurosurgery Initiative.
- 2016-present Vice-president, The Hong Kong Neurosurgical Society.
- 2016-present Member, Education and Accreditation Committee, The Medical Council of Hong Kong.
- 2016-present Member, Central Training and Development Committee, Hong Kong Hospital Authority.
- 2016-present Member, Executive Committee, Hong Kong Jockey Club Disaster Preparedness and Response Institute (HKJC DPRI).
- 2016-present Member, Advisory Committee, Hong Kong Jockey Club Innovative Learning Centre for Medicine (HKJC ILCM).
- 2017-present Council Member, The Hong Kong Scientist Association.

### Primary Responsibilities in Professional Bodies

1. Overseeing quality assurance and international promulgation of the Advanced Trauma Life Support (ATLS) course within the Asian-Australasian region on behalf of the American College of Surgeons.
2. Organizing and conducting neurosurgical training in low-/middle-income countries on behalf of the Asian Australasian Congress of Neurological Surgeons.
3. Overseeing education and examination matters of all Specialty Colleges within the Hong Kong Academy of Medicine as well as the initiation of the professional credentialing programme in Hong Kong.
4. Policy-making within the neurosurgical and neuro-oncology societies in Hong Kong; organization of numerous scientific and educational events.
5. Organization of professional examinations on behalfs of the College of Surgeons of Hong Kong and the Medical Council of Hong Kong.

### Chairmanship/Membership in Organizing Committees of Scientific Conferences and Educational Events

1. Chairman. Commissioned Training, Hospital Authority, H.K. (2001, 2006, 2010, 2011, 2012, 2014).
2. Member. The 7th Annual Congress for the World Academy for Multidisciplinary Neuro-traumatology (2007).
3. Member. The 5th Asian Epilepsy Surgery Congress (2011).
4. Chairman. Annual Scientific Meeting, The Federation of Medical Societies of Hong Kong. (2010, 2011).
5. Member. The 5<sup>th</sup> World Conference of Intracerebral Haemorrhage (2013).
6. Chairman, Frontiers in Medical and Health Sciences Education – ‘From classroom to clinic: opportunities and challenges in e-learning’, HKU (2013).
7. Chairman, Medical Education Conference, Hong Kong Academy of Medicine. (2017).
8. Member, International Medical Education Leaders Forum, Hong Kong Academy of Medicine. (2017).
9. Chairman, Medical Education Conference, Hong Kong Academy of Medicine. (2018).

### Other Contributions to Professional Training

- 1996-present The College of Surgeons of Hong Kong.  
College Fellow (1996-present)  
Member, Neurosurgery Board (2006-2011)  
Member, Research Committee (2008-present)  
Member, Examination Committee (2012-present)  
Member, Neurosurgery Board (2014-2017)
- 2008-present Chief Examiner, Licentiate Examination in Surgery, The Hong Kong Medical Council.
- 2012 Industrial donation of USD4000 from Medtronic International Limited for the establishment of a Neurosurgical Dissection Workshop at HKU.
- 2013 Research collaborations with Intuitive Surgical, Inc, U.K., on ‘The Da Vinci vs. conventional laparoscopy: Examining benefits for the surgeon.’
- 2014-present Course Director, Definitive Surgical Trauma Care, The International Association for Trauma Surgery and Intensive Care.
- 2014-present Examiner, Hong Kong Intercollegiate Board of Surgical Colleges Membership Examination in General Surgery and Neurosurgery.
- 2015-2018 Member, Examination Sub-committee of the Licentiate Committee, the Medical Council of Hong Kong.
- 2018-present Member, Credential Subcommittee, Licentiate Committee, The Medical Council of Hong Kong.
- 2018-present Member, Research and Education Working Group, International Association of Medical Regulatory Authorities (IAMRA).

### Membership of Professional Societies

- 2006-present The Hong Kong Neurosurgical Society.
- 2008-present Member, International Society of Pituitary Surgeons (ISPS).
- 2008-present Member, Pituitary Society.
- 2009-2011 Executive Member, The Federation of Medical Societies of Hong Kong,
- 2010-present Member, Society of Neuro-Oncology (SNO).
- 2011-present Member, International Association of Neurorestoratology (IANR).
- 2011-present Member, China Spinal Cord Injury Network (ChinaSCINet).



- 2011-present Council Member, The Hong Kong Neuro-Oncology Society, H.K.
- 2012-present Member, Skull Base Surgery Committee, World Federation of Neurosurgical Societies.
- 2013-present Member, American Association of Neurological Surgeons.
- 2013-present Member, Congress of Neurological Surgeons.
- 2015-present Member, Examination Sub-committee of the Licentiate Committee of the Medical Council of Hong Kong.
- 2014-present Member, American Association for Cancer Research.
- 2016-present Member, International Injury Care Committee, American College of Surgeons.
- 2017-present Member, Mason Institute for Medicine, Life Sciences and the Law, University of Edinburgh.

#### D. Civic Responsibilities

- 2010-present Medical Experts, The Hong Kong Law Society, H.K.
- 2010-present Member (Medical Sector), Friends of Bauhinia Foundation, H.K.
- 2010-2015 Rotary Club of Central, H.K.  
                   Member (2010-2015)  
                   Board Member (2011-2012)

~ End ~