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Teaching Modules:

*1978 – 1979: Teaching Assistant, Department of Chemistry, University of Illinois at
Chicago, IL., U.S.A.*

1982 – 1987: Teaching Assistant, Department of Anatomy (Histol ntDa

1992 – 2018: Academic staff, Department of Anatomy, The University of Hong Kong (Participated in **a a a** and examination for Histology (mainly) and Gross Anatomy and Problem Based Learning tutoring to Medical students; Histology to Medical, Traditional Chinese Medicine, Nursing, Bioengineering, Pharmacy students), Faculty of Medicine, The University of Hong Kong, Hong Kong, China (except 2003), Average 100 hours of undergraduate teaching;

G a a a : Graduated postgraduate student supervision: Total of 71 students (34 students as Principal Supervisor and 37 as Co-Supervisor); At HKU: Serve as a member of Higher Degree Committee; Member and Chairman of Departmental Research Postgraduate Committee; Coordinator for departmental postgraduate program; Coordinator for Postgraduate courses, Current Topics in Morphological Science, Basic molecular biology techniques for medical students and stem cells; Departmental coordinator and examiner for Special Field of Study, Master of Medical Science, Current Topics in Morphological Sciences, Cell Biology and Neuroscience; Postgraduate course: Current Postgraduate Course: Current Morphological Techniques in Cellular Functions (MMPH 6149); Member of Board of Studies and departmental representative of Master of Medical Science; Represent the Faculty and University to recruit postgraduate students from Korea

2018- 2019: Food Science and Technology, United International College, Hong Kong Baptist University and Beijing Normal University

2019- Present: Coordinator for Pathology teaching; Lecture and practical for Histopathology; Team-based learning; Graduate teaching for Pathology to Nursing and public health postgraduate students; Currently, co-supervising 4 PhD students

Research Areas:

Pathogenesis of diabetic and ischemic complications and drug discovery; Cellular osmotic, oxidative and ischemic stress; Diabetes insipidus; Stem cells and regenerative medicine against stroke, Alzheimer's Disease, Parkinson's and depression (Secured Total of 122 grants (65 grants as Principal Investigator and 57 grants as Co-Investigator; Delivered 97 Invited lectures at the International and regional symposiums; Provided service for generating transgenic and knockout mice; Embryonic stem cells culture and gene targeting)



Education:

J , 1988 **Ma** ., 1991

Winston Foundation Fellow, Laboratory of Neurobiology and Behavior,
Rockefeller University, New York, N.Y., USA

F ., 1987 - **Ma** , 1988

NIH Postdoctoral Fellow, Department of Physiology,
Northwestern University Medical Center, Chicago, IL, USA

1987 Ph.D.: *Department of Anatomy and Cell Biology, University of Illinois College of Medicine, Chicago, U.S.A.*

1981 M.A.: *Department of Chemistry, University of Illinois at Chicago, Chicago, U.S.A.*

1978 B.A.: *Double Major in Biology & Chemistry, Lewis University, Lockport, IL, U.S.A.*

Working Experience

2019–Present: Professor, Faculty of Medicine, Macau University of Science and Technology; Honorary Professor at School of Biomedical Sciences at The University of Hong Kong; Honorary Professor at Air Force Military Medical University in Xian, China; Adjunct Professor at Beijing Normal University-Hong Kong Baptist University, United International College in Zhuhai, China; Honorary Professor at Chung-Nam Medical University in Daejeon, South Korea

2018-2019: Professor, General Education Office/Division of Science and Technology (Food Science and Technology), Beijing Normal University-Hong Kong Baptist University, United International College, Zhuhai, China

2015- 2018: Professor at School of Biomedical Sciences, The University of Hong Kong

2006–2015: Professor, Department of Anatomy, The University of Hong Kong

2005–2006: Associate Professor, Department of Anatomy, The University of Hong Kong

1998- 2005: Honorary Associate Professor, Department of Anatomy, The University of Hong Kong

1992–2005: Investigator, Institute of Molecular Biology, May, 2001 substantiated, The University of Hong Kong

1991-1998: Honorary Lecturer, Department

1991-1992: Research Officer, Institute of Molecular Biology, The University of Hong Kong

Publication Past 5 years

1. Li CX, Ng KT, Shao Y, Liu XB, Ling CC, Ma YY, Geng W, Qi X, Cheng Q, Chung SK, Lo CM, Man K. *The inhibition of aldose reductase attenuates hepatic ischemia-reperfusion injury through reducing inflammatory response. Ann Surg. 2014 Aug;260(2):317-28, 2014*
2. Durairajan SS, Huang YY, Yuen PY, Chen LL, Kwok KY, Liu LF, Song JX, Han QB, Xue L, Chung SK, Huang JD, Baum L, Senapati S, Li M. *Effects of Huanglian-Jie-Du-Tang and its modified formula on the modulation of amyloid- β precursor protein processing in Alzheimer's disease models. PLoS One. 2014 Mar 26;9(3):e92954. doi: 10.1371/journal.pone.0092954. eCollection 2014. PubMed PMID: 24671102; PubMed Central PMCID: PMC3966845.*
3. Hung VK, Tai LW, Qiu Q, Luo X, Wong KL, Chung SK, Cheung CW. *Over-expression of astrocytic ET-1 attenuates neuropathic pain by inhibition of ERK1/2 and Akt(s) via activation of ETA receptor. Mol Cell Neurosci. 2014 Mar 1;60C:26-35. doi: 10.1016/j.mcn.2014.02.007. [Epub ahead of print]*
4. Baretella O, Chung SK, Barton M, Xu A, Vanhoutte PM. *Obesity and heterozygous endothelial overexpression of prepro-endothelin-1 modulate responsiveness of mouse main and segmental renal arteries to vasoconstrictor agents. Life Sci. 2014 Jan 8. pii: S0024-3205(14)00009-5. doi: 10.1016/j.lfs.2013.12.214. [Epub ahead of print] PubMed PMID: 24412387.*

5. Jo WK, Law AC, Chung SK. *The neglected co-star in the dementia drama: the putative roles of astrocytes in the pathogenesis of major neurocognitive disorders.* *Mol Psychiatry.* 2014 Feb;19(2):159-67. doi: 10.1038/mp.2013.171. Epub 2014 Jan 7. PubMed PMID: 24393807.
6. Luo X, Tai WL, Sun L, Qiu Q, Xia Z, Chung SK, Cheung CW. *Central administration of C-X-C chemokine receptor type 4 antagonist alleviates the development and maintenance of peripheral neuropathic pain in mice.* *PLoS One.* 2014 Aug 13;9(8):e104860. doi: 10.1371/journal.pone.0104860. eCollection 2014. PubMed PMID: 25119456; PubMed Central PMCID: PMC4132096.
7. Zhang L, Chung SK, Chow BK. *The knockout of secretin in cerebellar purkinje cells impairs mouse motor coordination and motor learning.* *Neuropsychopharmacology.* 2014 May;39(6):1460-8. doi: 10.1038/npp.2013.344. Epub 2013 Dec 19
8. Zhang Q, Bian G, Chen P, Liu L, Yu C, Liu F, Xue Q, Chung SK, Song B, Ju G, Wang J. *Aldose Reductase Regulates Microglia/Macrophages Polarization Through the cAMP Response Element-Binding Protein After Spinal Cord Injury in Mice.* *Mol Neurobiol.* 2014 Dec 19. [Epub ahead of print]
9. Guo Y, Chung SK, Siu CW, Kwan SC, Ho PW, Yeung PK, Chan KH, *Endothelin-1 overexpression exacerbate experimental allergic encephalomyelitis.* *J Neuroimmunol.* 276(1-2):64-70, 2014
10. Z. Oaks, R. Hanczko, M. Beckford, Chung, S.K. Landas, J.M. Asara, A. Perl, *Aldose*

reductase contributes to hepatocarcinogenesis in transaldolase deficiency, Vol 60, issue 1, Supplement, pg S98, 2014, DOI:

[http://dx.doi.org/10.1016/S0168-8278\(14\)60259-2](http://dx.doi.org/10.1016/S0168-8278(14)60259-2)

11. *Sin A, Tang W, Wen CY, Chung SK, Chiu KY. The emerging role of endothelin-1 in the pathogenesis of subchondral bone disturbance and osteoarthritis. Osteoarthritis Cartilage. 23(4):516-24. 2015*

12. *Fu Z, Nian S, Li SY, Wong D, Chung SK, Lo AC. Deficiency of aldose reductase attenuates inner retinal neuronal changes in a mouse model of retinopathy of prematurity. Graefes Arch Clin Exp Ophthalmol. 253(9):1503-13, 2015*

13. *Hung VK, Tai LW, Luo X, Wang XM, Chung SK, Cheung CW. Targeted Overexpression of Astrocytic Endothelin-1 Attenuates Neuropathic Pain by Upregulating Spinal Excitatory Amino Acid Transporter-2. J Mol Neurosci. 57(1):90-6, 2015*

14. *Zhang K, Zheng J, Bian G, Liu L, Xue Q, Liu F, Yu C, Zhang H, Song B, Chung SK, Ju G, Wang J. Polarized Macrophages Have Distinct Roles in the Differentiation and Migration of Embryonic Spinal-cord-derived Neural Stem Cells After Grafting to Injured Sites of Spinal Cord. Mol Ther., 23(6):1077-91, 2015*

15. *Hung VK, Yeung PK, Lai AK, Ho MC, Lo AC, Chan KC, Wu EX, Chung SS, Cheung CW, Chung SK. Selective astrocytic endothelin-1 overexpression contributes to dementia associated with ischemic stroke by exaggerating astrocyte-derived amyloid secretion. J Cereb Blood Flow Metab. 35(10):1687-96, 2015*

16. Liu J, Yeung PK, Cheng L, Lo AC, Chung SS, Chung SK. *Epac2-deficiency leads to more severe retinal swelling, glial reactivity and oxidative stress in transient middle cerebral artery occlusion induced ischemic retinopathy. Sci China Life Sci.* 58(6):521-30, 2015 (Invited for special issue on Diabetic retinopathy)
17. Guo Y, Chung SK, Siu CW, Kwan SC, Ho PW, Yeung PK, Chan KH. *Endothelin-1 overexpression exacerbate experimental allergic encephalomyelitis. J Neuroimmunol.* 2014 Nov 15;276(1-2):64-70. doi: 10.1016/j.jneuroim.2014.08.616. Epub 2014 Aug 19. PubMed PMID: 25205217.
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19. Yu JL, Deng R, Chung SK, Chan GC. *Epac Activation Regulates Human Mesenchymal Stem Cells Migration and Adhesion. Stem Cells.* 2016 Apr;34(4):948-59. doi: 10.1002/stem.2264. Epub 2016 Jan 4. PubMed PMID: 26727165.
20. Luo X, Tai WL, Sun L, Pan Z, Xia Z, Chung SK, Cheung CW. *Crosstalk between astrocytic CXCL12 and microglial CXCR4 contributes to the development of neuropathic pain. Mol Pain.* 2016 Mar 8;12. pii: 1744806916636385. doi: 10.1177/1744806916636385. Print 2016. PubMed PMID: 27030717; PubMed Central PMCID: PMC4956184.

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22. Luo X, Wang X, Xia Z, Chung SK, Cheung CW. CXCL12/CXCR4 axis: an emerging neuromodulator in pathological pain. *Rev Neurosci.* 27(1):83-92. 2016
23. Zhou L, Ma SL, Yeung PK, Wong YH, Tsim KW, So KF, Lam LC, Chung SK. Anxiety and depression with neurogenesis defects in exchange protein directly activated by cAMP 2-deficient mice are ameliorated by a selective serotonin reuptake inhibitor, Prozac. *Transl Psychiatry.* 2016 Sep 6;6(9):e881. doi:10.1038/tp.2016.129. PubMed PMID: 27598965.
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reductase deficiency leads to oxidative stress-induced dopaminergic neuronal loss and autophagic abnormality in an animal model of Parkinson's disease. Neurobiol Aging. 2017 Feb;50:119-133. doi: 10.1016/j.neurobiolaging.2016.11.008. Epub 2016 Nov 23. PubMed PMID: 27960106.

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33. *KC Chan, IY Zhou, SS Liu, Y van der Merwe, SJ Fan, VK Hung, SK Chung, WT Wu, KF So, EX Wu: Longitudinal assessments of normal and perilesional tissues in focal brain ischemia and partial optic nerve injury with manganese-enhanced MRI. Scientific Reports7:43124, 2017*

34. *W Zhao, VYL Leung, KY Chiu, H Pan, D Chen, SK Chung, and WW Lu, Endothelial Endothelin-1 Over-expression Leads to Abnormal Endochondral Ossification and Accelerates Knee Osteoarthritis Progression, In Press*

35. *Zhang, Shi Qing; Yung, Kin Lam; Chung, Sookja; Chung, Sum Man. Aldo-Keto Reductases Mediated Cytotoxicity of 2-Deoxyglucose: A Novel Anticancer Mechanism. Accepted by Cancer Science, 2018*

36. *Niimi N, Yako H, Takaku S, Kato H, Matsumoto T, Nishito Y, Watabe K, Ogasawara S, Mizukami H, Yagihashi S, Chung SK, Sango K. A spontaneously immortalized Schwann cell line from aldose reductase-deficient mice as a useful tool for studying polyol pathway and aldehyde metabolism. J Neurochem. 2017 Dec 14. doi:10.1111/jnc.14277. [Epub ahead of print] PubMed PMID: 29238976.*

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44. Niimi N, Yako H, Takaku S, Kato H, Matsumoto T, Nishito Y, Watabe K, Ogasawara S, Mizukami H, Yagihashi S, Chung SK, Sango K. *A spontaneously immortalized Schwann cell line from aldose reductase-deficient mice as a useful tool for studying polyol pathway and aldehyde metabolism*. *J Neurochem*. 2018 Mar;144(6):710-722. doi: 10.1111/jnc.14277. Epub 2018 Jan 16. PubMed PMID: 29238976.

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46. Bian G, Yu C, Liu L, Fang C, Chen K, Ren P, Zhang Q, Liu F, Zhang K, Xue Q, Xiang J, Guo H, Song J, Zhao Y, Wu W, Chung SK, Sun R, Ju G, Wang J. *Sphingosine 1-phosphate stimulates eyelid closure in the developing rat by stimulating EGFR*

signaling. *Sci Signal*. 2018 Oct 23;11(553). pii: eaat1470. doi: 10.1126/scisignal.aat1470. PubMed PMID: 30352949.

47. Ganesan K, Chung SK, Vanamala J, Xu B. Causal Relationship between Diet-Induced Gut Microbiota Changes and Diabetes: A Novel Strategy to Transplant *Faecalibacterium prausnitzii* in Preventing Diabetes. *Int J Mol Sci*. 2018;19(12):3720. Published 2018 Nov 22. doi:10.3390/ijms19123720

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Zhou; Sookja K Chung, *Astrocytic endothelin-1 overexpression promotes neural progenitor cells proliferation and differentiation into astrocytes via the Jak2/Stat3 pathway after stroke*, *J Neuroinflammation*. 2019; 16: 227. Published online 2019 Nov 16. doi: 10.1186/s12974-019-1597-yPMCID: PMC6858703 (Impact Factor: 5.193)

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54. Min Joung Lee, Yunseon Jang, Jeongsu Han, Soo J Kim, Xianshu Ju, Yu Lim Lee, Jianchen Cui, Jiebo Zhu, Min Jeong Ryu, Song-Yi Choi, Woosuk Chung, Chaejeong Heo, Hyon-Seung Yi, Hyun Jin Kim, Yang H Huh, Sookja K Chung, Minho Shong, Gi-Ryang Kweon, Jun Young Heo, *Endothelial-specific Crif1 deletion induces BBB maturation and disruption via the alteration of actin dynamics by impaired mitochondrial respiration*, *J Cerebral Blood Flow and Metabolism*, <https://doi.org/10.1177/0271678X19900030> (Impact Factor: 6.04)

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Cheung, Chiwai, Cantow, Eng, He, Lin, Ji-1 Confers Analgesia by Triggering

ischemia reperfusion in stroke

2013 8536212 Sookja Kim Chung, Stephen Chung and Chihiro Hibi, Protective agent for retinal nerve or optic nerve

2009 7605265 Ip, Nancy Y, Ip, Fanny Chui Fun, Hu, Yueqing, Han, Yifan, Chung, Sookja Kim Heterodimers and methods of using them USA

2013 20100216856 Sookja Kim Chung, Stephen Chung and Chihiro Hibi Protective agent for retinal nerve or optic nerve European

2019 Sookja Kim Chung and Kazunori Sango Licensing of aldose reductase-deficient Schwann cell line (IKARS1) in collaboration with Prof. Kazunori Sango, Japan to Applied Biological Materials Inc.