

## CURRICULUM VITAE

**NAME: JIANBO YUE, Ph.D.**    **TITLE:** Professor of Biology, Duke Kunshan University

**Research Interests:** Endosomal trafficking, autophagy, cell cycle, metastasis, anticancer immunity, virus infection, Ca<sup>2+</sup> signaling, reactive oxygen species (ROS), and drug development.

**ADDRESS:** Division of Natural and Applied Sciences  
Duke Kunshan University  
Kunshan, China  
Tel: 852-64321699, 86-18260282751  
Email: jianboyue@yahoo.com; yue.jianbo@duke.edu

### EDUCATION:

1995-2000: Ph.D. in Pharmacology, Pennsylvania State University College of Medicine, Hershey, PA 17033  
1991-1994: M.S. in Genetics, Peking University, Beijing, People's Republic of China  
1987-1991: B.S. in Biochemistry, Sichuan University, Chengdu, People's Republic of China

### APPOINTMENTS:

2022-                    Professor, Natural Science Division, Duke Kunshan University  
2014 -2022           Associate Professor, Department of Biomedical Sciences, City University of Hong Kong  
2008-2014:           Assistant Professor, Department of Physiology, The University of Hong Kong  
2007-2018:           Research Assistant Professor, Department of Physiology, The University of Hong Kong  
2001-2007:           Postdoctoral Fellow, Department of Molecular Pharmacology, Stanford University School of Medicine

### AWARDS:

2021                    Gold Medal, Geneve Inventions  
2016                    Short talk award, FASEB Calcium and Cell Function Conference  
2006                    Keystone Symposia scholarship  
2005-2008            Special Fellow, The Leukemia and Lymphoma Society  
2002-2004            Postdoctoral Fellow, American Heart Association

### PUBLICATIONS:

1.                    Zhang K, Huang L, Chen N, **Yue J\*** (2022) Identification of a small chemical as a lysosomal calcium mobilizer and characterization of its antiviral activity by

- inhibiting autophagy (Submitted)
2. Zhu K, Kazim N, **Yue J\***, Yen, A\* (2022) Vacuolin-1 enhances RA-induced differentiation of human myeloblastic leukemia cells: Evidence for involvement of a CD11b/FAK/LYN/SLP-76 axis subject to endosomal regulation that drives late differentiation step (In revision).
  3. Ye Z, Peng W, Wei W, Zheng S, **Yue J\*** (2022) Manipulation of PD-L1 endosomal trafficking promotes anticancer immunity (Submitted).
  4. Zhu K, Cai Y, Shi X, Ye Z, Gao Y, Liu C, Wang R, Ma Z, Zhu H, Zhang L, Li S\*, Zhang H\*, **Yue J\*** (2022) The phosphorylation and dephosphorylation switch of VCP/p97 regulates centrosome and spindle orientation. *Cell Death and Differentiation* (Online ahead of print).
  5. Wang D, Ye Z, Yu J, Wei W, Huang L, Zhang H, **Yue J\*** (2021) Capping protein regulates endocytosis by controlling F-actin density and recruiting RAB5 effectors to early endosomes. *eLife* 10: e65910.
  6. Xie F, Xu S, Lu Y, Manno S, Won KF, Sun L, **Yue J\***, Cheng SH\* (2021) Metformin accelerates zebrafish heart regeneration by inducing autophagy. *npj Regenerative Medicine* 6: 62.
  7. Wang D, Wu F, Zhu Y, Liu L, Miao D, Zhou M, Wang W\*, Hu Q\*, **Yue J** (2021) Stilbene Derivatives from the Leaves and Stems of *Bletilla striata* and their Cytotoxicity and Autophagy Activity. *Chemistry of Natural Compounds* 57, 462–467.
  8. Huang L, Li H, Ye Z, Xu Q, Fu Q, Sun W, Qi W\*, **Yue J\*** (2021) Berbamine inhibits Japanese Encephalitis virus (JEV) infection by compromising TPRMLs-mediated endolysosomal trafficking of Low-density lipoprotein receptor (LDLR). *Emerging Microbes & Infections* 10, 1257-1271.
  9. Huang L, Yuen T, Ye Z, Liu S, Zhang G, Chu H\*, **Yue J\*** (2021) Berbamine inhibits SARS-CoV-2 infection by compromising TPRMLs-mediated endolysosomal trafficking of ACE2. *Signal Transduct Target Ther.* 6: 168.
  10. Xu Q, Huang L, Xing J, Zhang J, Li H, Liu L, Hu C, Liao M, **Yue J\***, Qi W\* (2021) Japanese encephalitis virus remodels lysosomes membrane for RNA replication and utilizes autophagy components for intracellular growth. *Veterinary Microbiology* 255:109025.
  11. Klionsky DJ\*, et al. (including **Yue J**) (2021) Guidelines for the Use and Interpretation of Assays for Monitoring Autophagy (4th edition). *Autophagy* 17: 1-382.
  12. Guo W, Wang Q, Pan S, Li J, Shu Y, Chen J, Wang Q, Zhang S, Zhang X, **Yue J\*** (2021) The ERK1/2-ATG13-FIP200 signaling cascade is required for autophagy induction to protect renal cells from hypoglycemia-induced cell death. *J. Cell. Physiol.* 236: 6932-6947.
  13. Ye Z, Wang D, He Y, Yu J, Wei W, Chen C, Wang R, Zhang L, Zhang LH, Zhang LR, Le M, Cho W, M Yang, Zhang H, **Yue J\*** (2021) Vacuolin-1 inhibits

- endosomal trafficking and metastasis via CapZ $\beta$ . *Oncogene* 40, 1775-1791.
14. Huang L, Fu Q, Dai J, Yan BC, Wang D, Puno PT\*, **Yue J\*** (2021) High content screening of diterpenoids from *Isodon* species as autophagy modulators and the functional study of their anti-flavivirus activities. *Cell Biol Toxicol* 37: 695-713.
  15. Rashid A, Wang R, Zhang L, **Yue J**, Yang M\*, Yen A\*. (2020) Dissecting the Novel Partners of Nuclear c-Raf and Its Role in All-Trans Retinoic Acid (ATRA)-induced Myeloblastic Leukemia Cells Differentiation. *Exp Cell Res.* 394: 111989.
  16. Zhu K, **Yue J\***, Yen A\* (2020) Depleting interferon regulatory factor-1(IRF-1) with CRISPR/Cas9 attenuates inducible oxidative metabolism without affecting RA-induced differentiation in HL-60 human AML cells. *FASEB Bioadv.* 2:354-364.
  17. Wu WKK\*, **Yue J\*** (2020) Autophagy in host-microbe interactions. *Seminars in Cell & Developmental Biology* 101:1-2.
  18. Shi X, Zhu K, Ye Z, **Yue J\*** (2020) VCP/p97 targets the nuclear export and degradation of p27<sup>Kip1</sup> during G1 to S phase transition. *FASEB J.* 34(4):5193-5207.
  19. Huang L, **Yue J\*** (2020) The interplay of autophagy and enterovirus. *Seminars in Cell & Developmental Biology* 101:12-19.
  20. Li S, Hu X, Tian R, Guo Y, Chen J, Li Z, Zhao X, Kuang L, Ran D, Zhao H, Zhang X, Wang J, Xia L, **Yue J**, Yao G, Fu Q, Shi H\* (2019) RNA-Seq-based transcriptomic profiling of primary interstitial cells of Cajal in response to bovine viral diarrhea virus infection. *Vet Res Commun.* 43:143-153.
  21. Li T, **Yue J**, Huang L\*, and Yang M\* (2019) Autophagy inhibitor Vacuolin-1 interferes lipid-based small interference RNA delivery. *Biochemical and Biophysical Research Communications (BBRC)* 510: 427-434.
  22. Li C, Huang L, Sun W, Chen Y, He M\*, **Yue J\***, Ballard H\* (2019) Saikosaponin D potently Inhibits Autophagy to Suppress EV71 infection. *Signal Transduct Target Ther.* 4: 4.
  23. Li Y, Zhou D, Ren Y, Zhang Z, Guo X, Ma M, Xue Z, Lv J, Liu H, Xi Q, Jia L, Zhang L, Liu Y, Zhang Q, Yan J, Da Y, Gao F, **Yue J**, Yao Z, Zhang R\* (2018) Mir223 restrains autophagy and promotes CNS inflammation by targeting ATG16L1. *Autophagy* 15: 478–492.
  24. Li, J., Li, X., Luo, T., Wang, R., Liu, C., Chen, S., Li, D., **Yue, J.**, Cheng, S. & Sun, D\* (2018). Development of a magnetic microrobot for carrying and delivering targeted cells. *Science Robotics* 3, p. eaat8829.
  25. Li, X-R, Fu Q, Zhou, M., Hu, K, Du, X, Li, X-N, Sun, H-D, **Yue J**, Zhang, H-B & Puno, P-T\* (2018) Isoscoparins R and S, two new *ent*-clerodane diterpenoids from *Isodon scoparius*. *Journal of Asian Natural Products Research.* p. 1-8.
  26. Sun W, **Yue J\*** (2018) TPC2 mediates autophagy and exosome secretion in cancer cells. *Exp Cell Res.* 370: 478-489.
  27. Hao B, Webb SE, **Yue J**, Moreau M, Leclerc C, Miller AL\* (2018) The Effect of

- Pyrazole 3 Treatment on the Generation of Intracellular  $\text{Ca}^{2+}$  Transients and Mitochondrial Membrane Potential, as well as the Survival and Neural Differentiation of Mouse Embryonic Stem Cells. *Journal of Stem cells* 13: 2-21.
28. Hao B, Webb SE, **Yue J**, Moreau M, Leclerc C, Miller AL\* (2018) TRPC3 is required for survival, pluripotency and neural differentiation of mouse embryonic stem cells. *Sci China Life Sci.* 61:253-265.
  29. Ciešlar-Pobuda A, **Yue J**, Lee H-C, Skonieczna M, Wei Y-H. (2017) ROS and Oxidative Stress in Stem Cells (editorial). *Oxidative Medicine and Cellular Longevity*, 5047168.
  30. Chen C, Lu Y, Siu HM, Guan J, Zhu L, Zhang S, **Yue J\***, Zhang LR\* (2017) Identification of Novel Vacuolin-1 Analogs as Autophagy Inhibitors by Virtual Drug Screening and Chemical Synthesis. *Molecules* 22, E891.
  31. Thakur A, Qiu G, NG SP, Guan J, **Yue J**, Lee Y\*, Wu CL\* (2017) Direct detection of two different tumor-derived extracellular vesicles by SAM-AuNIs LSPR biosensor. *Biosensors and Bioelectronics* 94:400-407.
  32. Wang Q, Huang L, **Yue J\*** (2017) Oxidative stress activates the TRPM2- $\text{Ca}^{2+}$ -CaMKII cascade to trigger cell death in cancer cells. *Biochim Biophys Acta-Mol. Cell Res* 1864: 957-967.
  33. Zhang K, Sun W, Huang L, Zhu K, Zhu L, Wang Q, Lu Y, Zhang HM, Jin H, Zhang LH\*, Zhang LR\*, **Yue J\*** (2017) Identifying GAPDH as a Novel Cyclic Adenosine Diphosphoribose (cADPR) Binding Protein by Photoaffinity Protein-Ligand Labeling Approach. *J Am Chem. Soc.* 139:156-170.
  34. Hao B, Wei W, Webb SE, Miller AL, **Yue J\*** (2017) The Role of  $\text{Ca}^{2+}$  Signaling in the Differentiation of Embryonic Stem Cells (ESCs) Into Cardiomyocytes. *Frontiers in Stem Cells and Regenerative Medicine Research* 6, 167-187. (book chapter)
  35. Chen G, Gong R, Shi X, Yang D, Zhang G, Lu A, **Yue J\***, Bian J\* (2016) Halofuginone and Artemisinin synergistically arrest cancer cells at the G1/G0 phase by upregulating p27<sup>Kip1</sup> and p21<sup>Cip1</sup>. *Oncotarget* 7: 50302-50314.
  36. Wei W, Huang W, **Yue J\*** (2016) Requirement of IP<sub>3</sub> Receptor 3 (IP<sub>3</sub>R3) in Nitric Oxide-Promoted Cardiomyocyte Differentiation of Mouse Embryonic Stem Cells. *Exp Cell Res.* 346: 9-16.
  37. Wang Q, Guo W, Hao B, Shi X, Wong C, Hao Q, Cheung HK, Wu WT, Li GR, Lu Y, **Yue J\*** (2016) Mechanistic Study of the role of TRPM2- $\text{Ca}^{2+}$  Signaling in Oxidative Stress induced Autophagy inhibition. *Autophagy* 12: 1340-1354.
  38. Huang X, Yue W, LIU D, **Yue J**, Li J, Sun D, Yang M, and Wang Z\* (2016). Monitoring the intracellular calcium response to a dynamic hypertonic environment. *Scientific Reports* 6:23591.
  39. Hao H, Webb SE, Miller AL, **Yue J\*** (2016). The role of  $\text{Ca}^{2+}$  signaling in neural differentiation of mouse ES cells. *Cell Calcium* 59: 67-74.
  40. Klionsky DJ\*, et al. (including **Yue J**) (2016) Guidelines for the Use and

Interpretation of Assays for Monitoring Autophagy. *Autophagy* 12:1-222.

41. Wei W, Lu Y, Hai B, Zhang K, Wang Q, Miller AL, Zhang LR, Zhang LH, **Yue J\*** (2015) CD38 is Required for Neural Differentiation of Mouse Embryonic Stem Cells by Modulating Reactive Oxygen Species (ROS). *Stem Cells* 33, 2664-2673.
42. Zhang LR\*, **Yue J**, Zhang LH\* (2015) Cyclic Adenosine 5'-Diphosphoribose (cADPR) Mimics Used as Molecular Probes in Cell Signaling. *Chemical Record* 15, 511-523.
43. Wei W, **Yue J\*** (2015) Ca<sup>2+</sup> Handling in Embryonic Stem Cell Derived Cardiomyocytes. *Methods Mol Biol.* 1212:163-169. (book chapter)
44. Lu Y, Dong S, Hao B, Wang Q, Guo W, Cheung KH, Wong C, Wu WT, Markus H, **Yue J\*** (2014) Vacuolin-1 Potently and Reversibly Inhibits Autophagy by Activating Rab5. *Autophagy* 10, 1895-1905.
45. Wei W, Graeff R, **Yue J\*** (2014) The Roles and Mechanisms of Cyclic-ADP Ribose (cADPR)/CD38/Ca<sup>2+</sup> Signaling Pathway. *World J Biol Chem.* 5, 58-67.
46. Che H, **Yue J**, Tse HF, Li GR. (2014) Functional TRPV and TRPM channels in human preadipocytes. *Pflugers Arch* 466,947-959.
47. Hao B, Lu Y, Wang Q, Guo W, Cheung KH, **Yue J\*** (2014) Role of STIM1 in Survival and Neural Differentiation of Mouse Embryonic Stem Cells Independent of Orail-Mediated Ca<sup>2+</sup> Entry. *Stem Cell Res.* 12, 452-466.
48. Zhang YY, **Yue J**, Sun, HY, Tse HF, Li GR (2014) BKCa and hEag1 channels regulate cell proliferation and differentiation in human bone marrow-derived mesenchymal stem cells. *J. Cell. Physiol.* 229, 202-212.
49. Lu Y, Hao B, Graeff R, **Yue J\*** (2013) NAADP/TPC2/Ca<sup>2+</sup> Signaling Inhibits Autophagy. *Commun Integr Biol.* 6: e27595.
50. Guo W, Hao B, Wang Q, Lu Y, **Yue J\*** (2013) Requirement of B-Raf, C-Raf, and A-Raf for the Growth and Survival of Mouse Embryonic Stem Cells. *Exp Cell Res.* 319, 2801-2811.
51. Zhang Z, Lu Y, **Yue J\*** (2013) Two Pore Channel 2 Differentially Modulates Neural Differentiation of Mouse Embryonic Stem Cells. *Plos One*, 8: e66077.
52. Yu P, Wang Q, Zhang LH, Lee HC, Zhang LR, **Yue J\*** (2012) A cell membrane permeable NPE caged ADP-Ribose for studying TRPM2. *Plos One*, 7: e51028.
53. Wei W, Sun HY, Ting K, Zhang LH, Lee HC, Li GR, **Yue J\*** (2012) Inhibition of cardiomyocyte differentiation of mouse embryonic stem cells by CD38/cADPR/C<sup>a2+</sup> signaling pathway. *J. Biol. Chem.* 287, 35599–35611.
54. Yu P, Zhang Z, Hao B, Zhao Y, Lee HC, Zhang LH, Zhang LR\*, **Yue J\*** (2012) A novel fluorescent cell membrane permeable caged-cADPR analogue. *J. Biol. Chem.* 287, 24774-24783.
55. Zhou Y, Yu P, Jin H, Yang Z, **Yue J**, Zhang L, Zhang L (2012). Synthesis and calcium mobilization activity of cADPR analogues which integrate nucleobase, northern and southern ribose modifications. *Molecules.* 17:4343-4356.

56. Li S, Hao B, Lu Y, Yu P, Lee HC, **Yue J\*** (2012) Inhibition of sarco/endoplasmic reticulum  $\text{Ca}^{2+}$ -ATPase by intracellular alkalization induces cytosolic  $\text{Ca}^{2+}$  increases. *Plos One* 7:e31905.
57. Dong M, Si YQ, Sun SY, Pu XP, Yang ZJ, Zhang LR, Zhang LH, Leung FP, Lam CM, Kwong AK, **Yue J**, Zhou Y, Kriksunov IA, Hao Q, Lee HC (2011) Design, synthesis and biological characterization of novel inhibitors of CD38. *Org Biomol Chem* 9, 3246-3257.
58. **Yue J\***, Wei W, Lam CM, Zhao YJ, Dong M, Zhang LR, Zhang LH, Lee HC\* (2009) CD38/cADPR/ $\text{Ca}^{2+}$ -pathway promotes cell proliferation and delays NGF-induced differentiation in PC12 cells. *J. Biol. Chem.* 284, 29335-29342.
59. **Yue J\***, Ferrell JE Jr. (2006) Mechanistic studies of the mitotic activation of Mos. *Mol Cell Biol.* 26, 5300-5309.
60. **Yue J\***, Xiong W, Ferrell JE Jr. (2006) B-Raf and C-Raf are required for Ras-stimulated p42 MAP kinase activation in *Xenopus* egg extracts. *Oncogene*, 25, 3307-3315.
61. **Yue J\***, Ferrell JE Jr. (2004) Mos mediates the mitotic activation of p42 MAPK in *Xenopus* egg extracts. *Curr. Biol.* 14, 1581-1586.
62. **Yue J**, Sun B, Liu G, Mulder KM\* (2004) Requirement of TGFbeta Receptors and Ras for TGFbeta activation of c-Jun N-terminal kinases (JNKs)/Stress-activated protein kinases (SAPKs). *J. Cell. Physiol.* 199, 284-292.
63. **Yue J**, Mulder KM\* (2001) TGFbeta signal transduction in epithelial cells: Smad and the Ras/MAPK pathways. *Pharmacol Ther.* 91, 1-34.
64. **Yue J**, Mulder KM\* (2000) Requirement of Ras, SAPK/JNK, and Erk for TGFbeta<sub>1</sub> autoinduction in a Smad-dependent pathway. *J. Biol. Chem.* 275, 30765-30773.
65. **Yue J**, Mulder KM\* (2000) Activation of the mitogen-activated protein kinase pathway by transforming growth factor-beta. In Howe, P. (Ed): Transforming Growth Factor Beta Protocols. The Humana Press Inc. 142, 125-131. (book chapter).
66. **Yue J**, Frey RS, Mulder KM\* (1999) Cross-talk between the Smad1 and Ras/MEK signaling pathways for TGFbeta. *Oncogene*, 18, 2033-2037.
67. **Yue J**, Hartsough MT, Frey RS, Frielle T, Mulder KM\* (1999) Cloning and expression of a Rat Smad1: Regulation by TGFbeta and Modulation by the Ras/MEK pathway. *J. Cell. Physiol.*, 178, 387-396.
68. **Yue J**, Buard A, Mulder KM\* (1998) Blockade of TGFbeta<sub>3</sub> up-regulation of p27Kip1 and p21Cip1 by expression of RasN17 in epithelial cells. *Oncogene* 17, 47-55.
69. Liu X, **Yue J**, Frey RS, Zhu Q. Mulder KM\* (1998) Transforming growth factor beta signaling through Smad1 in human breast cancer cells. *Cancer Res.*, 58, 4752-4757.

**Note:** \* denotes the Corresponding author.

**PATENTS (from Yue lab)**

1. A METHOD OF PROMOTING ANTITUMOR OR ANTICANCER IMMUNITY. Provisional application for patent (PCT63/163,221).
2. USE OF BERBAMINE OR ITS ANALOGUE FOR PREVENTING OR TREATING RNA VIRUS INFECTION. Provisional application for patent (PCT/CN2020/113378).
3. METHOD OF TREATING METASTATIC CANCER IN A SUBJECT WITH A PROTEIN INHIBITOR. US patent application (US16/937,995).
4. METHODS OF PREVENTING OR TREATING FLAVIVIRUS INFECTIONS AND METHODS OF INHIBITING THE ENTRY OF FLAVIVIRUS, ENTEROVIRUS OR LENTIVIRUS INTO HOST CELLS. US patent No: 11,357.771 B2.
5. METHOD OF TREATING METASTATIC CANCER IN A SUBJECT, US patent No: US10894051B2, and China patent (pending).
6. VACUOLIN-1 AS AN INHIBITOR OF AUTOPHAGY AND ENDOSOMAL TRAFFICKING AND THE USE THEREOF FOR INHIBITING TUMOR PROGRESSION. US patent No: US 9,717,737 B2; European patent No: 15751298.9-1109, and China patents (CPCH1661599P).

**GRANT SUPPORT:**

1. Grants as the **Principal Investigator** (total of **25** external grants):

- 2023-2025: Functional and mechanistic studies of FAM129B signaling in endosomal trafficking. General Research Fund (GRF) HKD 1,445,768
- 2022-2024: Development of autologous and allogeneic human peripheral blood CAR-NK cells and its combination with immune checkpoint therapy for prostate cancer treatment. ITF [MHP/072/21], HKD 1,500,000 (Mainland-Hong Kong Joint Funding Scheme, Platform) (国家重点研发计划:内地与香港联合资助研发项目)
- 2022-2024: Development of berbamine, a bis-benzylisoquinoline alkaloid, as a novel anti-SARS-CoV-2 drug based on TRPMLs-mediated endolysosomal trafficking of ACE2. ITF [GHP/097/20GD], HKD 999,999 (粤港科技合作资助计划)
- 2022-2024: Development of a novel therapeutic to promote anticancer immunity by manipulating endosomal trafficking of PD-L1. Midstream Research Programme for Universities, ITF [MRP/064/21], HKD 3,000,000
- 2021-2024: Functional and mechanistic studies of FAM129B signaling in endosomal trafficking and metastasis. Basic Research Project of Shenzhen Science and Technology Innovation Committee. RMB 600,000

- 2021-2023: Development of PI3K inhibitors to control cytokine storm in COVID-19. NSFC-HRC-NZ Joint project on COVID-19. RMB 1,500,000
- 2021-2023: Functional and mechanistic study of endosomal trafficking inhibitors as novel antimetastasis drugs. Shenzhen-Hong Kong-Macau Science and Technology Project (Category C) RMB 1,000,000
- 2021-2024: Development of berbamine, a bis-benzylisoquinoline alkaloid, as a novel anti-SARS-CoV-2 drug based on TRPMLs-mediated endolysosomal trafficking of ACE2). Key Technology Research Project of Shenzhen Science and Technology Innovation Committee. RMB 1,000,000 (Co-PI, RMB 300,000 allocated to CityU Shenzhen)
- 2021-2024: Study of CapZ $\beta$  in endosomal trafficking. NSFC, RMB 580,000 (ongoing, approval date: October 2020)
- 2021-2023: Mechanistic studies of CapZ $\beta$  signaling in the maturation of early endosomes. General Research Fund (GRF) HKD 969,425 (ongoing, approval date: August 2020)
- 2019-2020: Molecular mechanism and function study of TRPM2-Ca<sup>2+</sup>-CaMKII signal pathway in cell death and tissue damage induced by oxidative stress. Sichuan Science and Technology Program, RMB 100,000 (completed)
- 2018-2021: Study the role of GAPDH in cADPR/RyR/Ca<sup>2+</sup> signaling. National Natural Science Foundation of China (NSFC), RMB 650,000 (completed)
- 2018-2021: Dissecting the mechanism and function of GAPDH in cyclic ADP-Ribose (cADPR)-mediated Ca<sup>2+</sup> signaling in Mammalian cells. General Research Fund (GRF) HKD 969,425 (completed)
- 2017-2020: Development of novel anti-metastasis drug based on inhibition of endosomal trafficking and autophagy. Key Research Project of Shenzhen Science and Technology Innovation Committee. RMB 2,500,000 (completed)
- 2016-2019: Systematic Screen, Mechanistic Study, and Clinical Application of Diterpenoids from *Isodon* Species in Autophagy Regulation. CAS-Croucher Funding Scheme for Joint Laboratories. HKD 1,000,000 (completed, approval date: August 2016)  
<https://projects.croucher.org.hk/cas-croucher-joint-laboratories/nature-compounds-in-autophagy-and-cancer-biology>.
- 2016-2017: Vacuolin-1 as a novel anti-metastasis drug. Shenzhen Municipal Science and Technology Program Basic Research Project. Basic Research Project of Shenzhen Science and Technology Innovation Committee. RMB 300,000



(completed)

- 2016-2018: System Biology of Cellular Autophagy and Calcium Signal Kinetics. Guangdong and Hong Kong joint innovation Research Scheme. RMB 1,000,000 (Co-PI, 400,000 RMB allocated to CityU ShenZhen) (completed)
- 2015-2017: Use of Small Chemical Vacuolin-1 as a Novel Anti-Cancer Therapeutic Drug. Innovation and Technology Fund (ITF) HKD 1,398,055 (completed)
- 2014-2017: Applying a Novel cADPR Photoaffinity Labelling Analogue to Dissect the Cyclic ADP-Ribose (cADPR)-Ca<sup>2+</sup> Signaling in Mammalian Cells. General Research Fund (GRF) HKD 667,381 (completed)
- 2013-2016: Dissecting the Mechanism and Function of TPC2 Signaling in Autophagy Maturation in Mammalian Cells. General Research Fund (GRF) HKD 858,537 (completed)
- 2012-2015: The Calcium Signaling Pathway Mediated by NAADP. General Research Fund (GRF) HKD 980,000 (completed)
- 2011-2014: The role of NAADP/two-pore channel 2/Ca<sup>2+</sup> signaling in regulating neural differentiation of mouse embryonic stem cells. General Research Fund (GRF) HKD 1,020,000 (completed)
- 2010-2013: Modulation of the neural lineage entry of mouse embryonic stem cells by the CD38/cADPR/Ca<sup>2+</sup> signaling pathway. General Research Fund (GRF) HKD 1,500,000 (completed)
- 2010-2012: Identifying novel regulators in cADPR-mediated calcium signaling by combining approaches of synthetic organic chemistry and RNAi screen. NSFC/RGC Joint Research Scheme. HKD 744,000 (completed)
- 2009-2011: Dissecting the mechanism and function of the CD38/cADPR/Ca<sup>2+</sup> signaling in PC12 cell proliferation and differentiation. General Research Fund (GRF). 827,764 (completed)
- 2009-2010: Mechanism of melamine-induced human urinary bladder carcinoma. Studies Related to Melamine Incident. Food and Health Bureau of Hong Kong. 278,760 (completed)

## 2, Grant(s) as Co-I

- 2022-2024: The First Integrated State-of-the-Art Live Cell Imaging Platforms to Timely Promote Interdisciplinary and Advanced Life Sciences Research in Hong Kong and Beyond. Collaborative Research Equipment Grant (CREG)

2011-2016: Cell-based Heart Regeneration. RGC Theme-based Research Scheme (TRS)

**RESEARCH TRAINEES SUPERVISED:**

*Current-* Postdoctoral fellows: Lin Naixin, Xin Jinchao, Pragati Awasthi  
 PhD students: Peng Wang, Shi Xiaotong  
 Research assistants: Zhu Huazhang, Cai Yang, Hui Ho Ching, Chan Chuen Fuk, Sromona Roy, Tse Chi Wai  
 Undergraduate student assistants:

*Past-* PhD students: Wei Wenjie (HKU), thesis title: Calcium signaling in the cardiac differentiation of mouse embryonic stem cells. Her thesis was rated as excellent (top 10%).

Hao Baixia (HKU), thesis title: Regulatory and Functional Studies of Store-Operated  $Ca^{2+}$  entry. Her thesis was rated as excellent (top 10%).

Lu YingYing (HKU), thesis title: Autophagy Regulation by a Natural Compound (NAADP) and a Synthetic Small Chemical (Vacoulin-1): Mechanism and Potential Application. Her thesis was rated as excellent (top 10%).

Wan Qian (HKU), thesis title: Mechanistic Study of the TRPM2- $Ca^{2+}$  Signaling in ROS induced Switch between Apoptosis and Autophagy. Her thesis was rated as excellent (top 10%).

Guo Wenjing (HKU), thesis title: Functional Studies of MAPK Signaling in Regulating Autophagy in Renal Cells and Proliferation in Embryonic Stem Cells. Her thesis was rated as excellent (top 10%).

Li Chang (HKU), Thesis title: The role of autophagy in enterovirus-71 infection and the therapeutic effect of autophagy inhibition by saikosaponin D. Her thesis was rated as excellent (top 10%).

Shi XianLi (CityU), Thesis title: VCP/p97 targets the nuclear export and degradation of p27<sup>Kip1</sup> during G1 to S phase transition in human breast cancer cells.

Zhu Kaiyuan (CityU), Thesis title: Polo like kinase 1 (Plk1) phosphorylates Thr 76 of VCP/p97 to regulate the orientation of centrosome and mitotic spindle during M phase.

Sun Wei (CityU), Thesis title: The mechanism by which TPC2 mediates autophagy progression and exosome secretion in cancer cells.

Huang Lihong (CityU), Thesis title: Development of therapeutic agents against ss(+)RNA virus infection and mechanistic study of the interplay between enterovirus 71 and the host secretory pathways.

Ye Zuodong (CityU), Thesis title: Development of 6-morpholino-1,3,5-triazine derivatives as novel anti-metastatic and anticancer immune evasion drugs based on endosomal trafficking.

Wang Dawei (CityU), Thesis title: Functional and mechanistic study of CapZ and FAM129B as two novel regulators in endolysosomal trafficking.

MPhil students: Li Shen (HKU), thesis title: Intracellular Alkalinization Induces Cytosolic  $Ca^{2+}$  Increases by Inhibiting Sarco/endoplasmic Reticulum  $Ca^{2+}$ -ATPase (SERCA). His thesis was rated as excellent (top 10%)

Zhang Zhehao (HKU), thesis title: Dichotomic role of two pore channel 2 (TPC2) in neural differentiation of mouse embryonic stem (ES) cells. His thesis was rated as very good (top 25%).

Shi Xianli (HKU), thesis title: Role of p97/VCP in G1 to S transition in MCF7 human breast cancer cells. Her thesis was rated as excellent (top 10%)

Zhu Kaiyuan (HKU), thesis title: Mechanistic study of Plk1 mediated p97/VCP phosphorylation in mitosis. His thesis was rated as very good (top 25%)

Joint PhD students: Yu Peilin, PhD (Peking University), Zhang Kehui, PhD (Peking University)

Postdoctoral fellows: Huang Lihong, Feng Liming, Fu Qiang, Lu YingYing, Wei Wenjie, Wan Qian, Zhang Kehui, Zhu Kaiyuan, Ye Zuodong

Research assistants: Li Huan, Guan Jintao, Zhu Longchao, Dong Shichen, Zhang Zigang, Yang Xiao-Ying, Wang Li, Wang Jingwen, Wang Sinuo, Li Wenjun, Huang Yiru, Cai Yang, Yu Jingting, Bai Lu, Ma Jinyu,

Undergraduate students: Zhou Yinuo, CHAN Sum Po Ava, SIU Ho Ming, Sunny Cheung, Steve Luk, Ma Wei, Kwong Kwan Wong, Ting Kai Yiu, Chan Chi Shing, Salma Jalal, Wong Wai Yin, Yeung Tsz Yan, Pang Shuk Han, Xinzhan Wu, Yu Man Yee, WONG Man Ling, Ko Kwan Ho, Lo Yan Wing, Wong Ka Kei, Hui Lok Sum

**TEACHING EXPERIENCE:**

2015-: City University of Hong Kong, Department of Biomedical Sciences

*Lectures:* Cellular Pathology (16 contact hours)  
Hematology (12 contact hours)  
Molecular Biology of the Cell (16 contact hours)  
Regenerative Medicine (6 contact hours)  
Cancer Biology (3 contact hours)  
Animal Physiology (4 contact hours)

*Tutorials:* Molecular Biology of the Cell (10 contact hours), Cellular Pathology (10 contact hours)

2014 (July): Sichuan University, School of Life Science.

*Lectures:* Switch-like Responses and Feedback Regulation in MAPK Signaling Cascades (2 contact hours)

2014 (May to June): South University of Science and Technology of China.

*Lectures:* General Biology: Physiology (Animal Structure and Function, Nutrition and Digestion, Circulation and Respiration, The Body's Defenses, Hormones, Reproduction and Development, and Nervous, Sensory, and Motor Systems) (32 contact hours)

Advanced Biotechnology: Cell differentiation and reprogramming (4 contact hours)

2007-2014: Department of Physiology, University of Hong Kong.

*Lectures:* PHYO1001 for Bachelor of Nursing: The vascular system and the control of the blood (1 contact hour), Microcirculation and lymphatic system flow (1 contact hour), Renal blood flow and glomerular filtration (1 contact hour), Renal tubular transport and clearance (1 contact hour), Concentration and dilution of urine (1 contact hour).

BPHM1005 & MEDE0002 for Bachelor of Pharmacy: Special circulation (1

contact hour), Microcirculation and lymphatic system flow (1 contact hour), Renal blood flow and glomerular filtration (1 contact hour), Renal tubular transport and clearance (1 contact hour), Concentration and dilution of urine (1 contact hour), Regulation of Fluid volume and Osmolality (1 contact hour), Disorders of Fluid & Electrolytes (1 contact hour), Acid-base balance & disorders (1 contact hour), Renal Failure (1 contact hour), Measurement of urine flow & blood pressure in an anesthetized animal (2 contact hours).

PHYO1101 – Life Science Foundation Course: Introduction to vascular & lymphatic physiology (1 contact hour), Introduction to basic renal processes (1 contact hour)

PHYO6100 Cell Biology: Cell Cycle (2 contact hours), Cell Signaling I and II (4 contact hours).

PHY06200 Concepts of Human Physiology: Renal physiology (2 contact hours)

*Tutor*: MBBS PBL (from 2008 to 2012: 16 hrs/per school year; from 2012 to 2014: 24 hrs/per school year)

BDS PBL (from 2010 to 2012: 18 hrs/per school year; from 2012 to 2014: 24 hrs/per school year)

1997-2000: Teaching Assistant, Department of Pharmacology, Pennsylvania State University College of Medicine, Hershey, PA 17033

*Lecture*: Research paper, Tyrosine kinases section of Pharmacology 501 for first-year graduate students.

*Course tutored*: Pharmacology 701/702 for second year medical students.

1992-1994: Teaching assistant, Department of Biology, Peking University, Beijing, People's Republic of China

*Labs taught*: Techniques in Genetics for seniors

#### **PEER REVIEW SERVICE:**

##### **Editorial Board Member:**

Biomedicines (2021-2023), *impact factor* 6.081(2020)

World Journal of Stem cells (2018 to 2021), *impact factor* 5.326 (2020)

Anatomy & Physiology: Current Research

OnLine Journal of Biological Sciences

##### **Guest editors:**

Special Issue titled "ROS and oxidative stress in stem cells" in *Oxidative Medicine and Cellular Longevity*, impact factor 4.492 (2015)

Special Issue titled "Autophagy in host-microbe interactions" in *Seminars in Cell and Developmental Biology*, impact factor 5.46 (2018)

**Grants:**

Health Research Council of New Zealand

National Science Foundation, USA

Wellcome Trust, UK

Shenzhen Science and Technology Basic Research Grant

The Science and Technology Development Fund (FDCT) in Macau

Czech Science Foundation, CZ

**Promotion review:**

Penn State College of Medicine

Hong Kong Baptist University

**Manuscripts:**

Autophagy

Science Signaling

National Science Review

Journal of Biological Chemistry

Journal of Medicinal Chemistry

Stem Cells

Signal Transduction and Targeted Therapy

RCS Advances

Cell Death & Disease

Journal of Cellular Physiology

Cell & Bioscience

International Journal of Biological Sciences

*Biochim Biophys Acta-Mol. Cell Res*

PLoS ONE

Oncotarget

BioEssays

Cellular Physiology and Biochemistry

Scientific Report

Cell Calcium

Brain Research Bulletin

World Journal of Stem Cells

Oxidative Medicine and Cellular Longevity

Journal of Biomedical Sciences

Developmental Dynamics

Molecules

BMC Cell Biology

Oncology Letters

International Journal of Biological Macromolecules

Analytical Biochemistry  
 Molecular Biology Reports  
 Phytomedicine  
 Journal of Biomedical Optics  
 Chemical Biology & Drug Design  
 Journal of Histochemistry & Cytochemistry  
 Journal of Visualized Experiments  
 Medical Science Monitor  
 Journal of Nanobiotechnology  
 Stem cells international  
 Letters in Drug Design & Discovery  
 NeuroReport  
 Austin Journal of Clinical Pathology  
 Archives of Physiology  
 Chinese Medicine  
 Neural Regeneration Research  
 Physiology Science  
 World Journal of Biological Chemistry

#### **INVITED TALKS:**

1. Role of VCP in cell cycle control. Faculty of Health Science, University of Macau, May 10, 2019
2. Use of tetrandrine to treat flavivirus infection. FAOPS2019, Kobe, Japan, March 28-31, 2019.
3. The role of the TRPM2-Ca<sup>2+</sup>-CaMKII signaling in oxidative stress-induced cell death and tissue damage. State Key Laboratory of Medicinal Chemical Biology, NanKai University, Tianjin, March 22, 2018
4. The role of the TRPM2-Ca<sup>2+</sup>-CaMKII signaling in oxidative stress-induced cell death and tissue damage. NSFC/RGC Conference: Cardiovascular Calcium Signaling Pathway role in Health and Disease. December 6-7, 2017, Hong Kong
5. Application of Autophagy Inhibitors to Treat Cancer and Viral Infection. CAS Kunmin Institute of Botany, June 16, 2017
6. Application of Autophagy Inhibitors to Treat Cancer and Viral Infection. Tianjing Medical University, November 22, 2016.
7. Role of CD38/cADPR/Ca<sup>2+</sup> signaling in differentiation of mouse ES cells. 14th International Meeting of the European Calcium Society, 25-29 Sept. 2016. Valladolid, Spain
8. Application of Autophagy Inhibitors to Treat Cancer and Viral Infection. The IoC Distinguished Lecture "Targeting the Autophagy in Cancer Therapy", Hong Kong Baptist University, July 27, 2016
9. Cyclic Adenosine Diphosphoribose (cADPR) Targets GAPDH to Initiate Ca<sup>2+</sup> Release from ER via Ryanodine Receptors. The 11<sup>th</sup> Symposium on Calcium Signaling in China (SCSC). Zunyi, China, July 20- July 24, 2016

10. Identifying GAPDH as a Novel Cyclic Adenosine Diphosphoribose (cADPR) Binding Protein by Photoaffinity Protein-Ligand Labeling Approach. FASEB Calcium and Cell Function June 16, 2016. Lisbon, Portugal
11. Autophagy Regulation by Reactive Oxygen Species and Small Chemicals. School of Chinese Medicine, Hong Kong Baptist University, August 27, 2015
12. Autophagy Regulation by Reactive Oxygen Species and A Small Chemical (Vacuolin-1). Department of Medical Chemistry, State key laboratory of Natural and Biomimetic Drugs, Peking University, March 31, 2015
13. Autophagy Regulation by Reactive Oxygen Species and A Small Chemical (Vacuolin-1). Department of Biochemistry & Molecular Biology, College of Medicine, Penn State University, December 8, 2014
14. Autophagy Regulation by Reactive Oxygen Species and A Small Chemical (Vacuolin-1). International Conference on Frontier Biological Sciences, Chengdu, China, July 6, 2014.
15. Vacuolin-1 Potently and Reversibly Inhibits Autophagy by Activating Rab5. Experimental Biology 2014, San Diego, CA, April 28, 2014.
16. Autophagy Regulation by a Natural Compound (NAADP) and a Synthetic Small Chemical (Vacoulin-1): Mechanism and Potential Application. Department of Biomedical Sciences, City University of Hong Kong, April 8, 2014.
17. Autophagy Regulation by a Natural Compound (NAADP) and a Synthetic Small Chemical (Vacoulin-1): Mechanism and Potential Application. Faculty of Health Science, University of Macau, March 11, 2014
18. NAADP/TPC2/Ca<sup>2+</sup> Signaling Inhibits Autophagosomal-Lysosomal Fusion by Alkalizing Lysosomal pH. Department of Biology, South University of Science and Technology of China, July 1, 2013.
19. NAADP/TPC2/Ca<sup>2+</sup> Signaling Inhibits Autophagosomal-Lysosomal Fusion by Alkalizing Lysosomal pH. School of Biomedical Sciences, Chinese University of Hong Kong, April 5, 2013.
20. Calcium, Stem Cells, Autophagy, and pH. Department of Chemical Pathology, Chinese University of Hong Kong, January 11, 2013.
21. NAADP/TPC2 Signaling Antagonizes Autophagosomal-Lysosomal Fusion. Ninth IUPAC International Symposium on Biomolecular Chemistry & Eighth International Symposium for Chinese Medicinal Chemists. Beijing, China, August 25-29, 2012.
22. Calcium, Stem Cells, Autophagy, and pH. CRDG, The University of Hong Kong, June 27, 2012.
23. Inhibition of cardiomyocyte differentiation of mouse embryonic stem cells by CD38/cADPR/Ca<sup>2+</sup> signaling pathway. Stem Cell & Regenerative Medicine Consortium, The University of Hong Kong, October 13, 2011.
24. Mitotic kinase network: CDK1, MAPK, and Polo-like kinase 1. Department of Physiology, The University of Hong Kong, October 23, 2007.
25. Mitotic kinase network: CDK1, MAPK, and Polo-like kinase 1. Institute of Biomedical Science, Fudan University, March 10, 2007
26. The mechanism and role of mitotic activation of the MAPK signaling cascade. College of Life Science, Sichuan University, September 25, 2006
27. The mechanism and role of mitotic activation of the MAPK signaling cascade. College of Life Science, Wuhan University, September 21, 2006



28. The mechanism and role of mitotic activation of the MAPK signaling cascade. College of Life Science, SUN YAT-SEN University, September 17, 2006
29. The mechanism and role of mitotic activation of the MAPK signaling cascade. Zhejiang-California Nanotechnology Institute, Zhejiang University, September 15, 2006
30. The mechanism and role of mitotic activation of the MAPK signaling cascade. Department of Pharmacology, Peking University, September 13, 2006
31. The mechanism and role of mitotic activation of the MAPK signaling cascade. Department of Pediatrics, University of Texas at Houston, September 5, 2006
32. The mechanism and role of mitotic activation of the MAPK signaling cascade. Department of Biology, University of Arkansas, January 29, 2006
33. The mechanism and role of mitotic activation of the MAPK signaling cascade. Department of Pharmaceutical Science, Texas Tech University, January 21, 2006

#### CONFERENCE ABSTRACTS:

1. Zhu K, **Yue J**. The phosphorylation and dephosphorylation switch of VCP/p97 regulates centrosome and spindle orientation. Gordon Research Conference, 2019 Cell Growth and Proliferation, July 07, 2019 - July 12, 2019, Mount Snow in West Dover VT, USA
2. Lu Y, **Yue J**. The Role of the NAADP/Two Pore Channel 2 (TPC2)/Ca<sup>2+</sup> Signaling in the Maturation of Autophagosome. 52nd The American Society for Cell Biology Annual Meeting, San Francisco, CA, December 15-19, 2012
3. Guo W, **Yue J**. The Role of MAPKKKs in Self-Renewal and Pluripotency of Mouse Embryonic Stem Cells. 52nd The American Society for Cell Biology Annual Meeting, San Francisco, CA, December 15-19, 2012
4. Hao B, **Yue J**. Identify STIM1 Associated Proteins by Tandem Affinity Purification in Mammalian Cells. 52nd The American Society for Cell Biology Annual Meeting, San Francisco, CA, December 15-19, 2012.
5. Wei W, **Yue J**. Inhibition of cardiomyocyte differentiation of mouse embryonic stem cells by CD38/cADPR/Ca<sup>2+</sup> signaling pathway. The International Society for Stem Cell Research 10<sup>th</sup> annual meeting, Yokohama, Japan, June 13-16, 2012
6. **Yue J**, Zhang Z. Two pore channel 2 differentially modulates neural differentiation of mouse embryonic stem cells. 51<sup>st</sup> The American Society for Cell Biology Annual Meeting, Denver, CO, December 3-7, 2011
7. Yu P, Zhang L, **Yue J**. A Novel Fluorescent Cell Membrane Permeable Caged cADPR Analogue. 17<sup>th</sup> International Symposium on Calcium-Binding Proteins and Calcium Function in Health and Disease, Beijing, July 16-21, 2011.
8. Hao, B, **Yue J**. Bradykinin Triggers Intracellular Ca<sup>2+</sup> Increase and Promotes Early Embryoid Bodies Differentiation of Mouse Embryonic Stem Cells. 17<sup>th</sup> International Symposium on Calcium-Binding Proteins and Calcium Function in Health and Disease, Beijing, July 16-21, 2011.
9. Wei, W, **Yue J**. The CD38/cADPR/Ca<sup>2+</sup> pathway Suppresses Cardiac Differentiation Of Mouse Embryonic Stem Cells. 17<sup>th</sup> International Symposium on Calcium-Binding Proteins and Calcium Function in Health and Disease, Beijing, July 16-21, 2011.
10. Zhang Z, **Yue J**. Dichotomic role of two pore channel 2 (TPC2) in neural differentiation of mouse embryonic stem (ES) cells. 17<sup>th</sup> International Symposium on

- Calcium-Binding Proteins and Calcium Function in Health and Disease, Beijing, July 16-21, 2011.
11. Li S, **Yue J**. Intracellular Alkalinization Induces Cytosolic  $\text{Ca}^{2+}$  Increases by Inhibiting Sarco/endoplasmic Reticulum  $\text{Ca}^{2+}$ -ATPase (SERCA). 17<sup>th</sup> International Symposium on Calcium-Binding Proteins and Calcium Function in Health and Disease, Beijing, July 16-21, 2011
  12. Wei W, **Yue J**. Requirement of the  $\text{IP}_3/\text{Ca}^{2+}$  signaling for Nitro Oxide-facilitated cardiac differentiation of mouse embryonic stem cells. The International Society for Stem Cell Research 8<sup>th</sup> annual meeting, San Francisco USA, June 16-19, 2010.
  13. **Yue J**. Modulation of the neural lineage entry of mouse embryonic stem cells by the CD38/cADPR/ $\text{Ca}^{2+}$  signaling pathway. 49<sup>th</sup> The American Society for Cell Biology Annual Meeting, San Diego, CA, December 5–9, 2009.
  14. **Yue J**. Dissecting the role and mechanism of the CD38/cADPR signaling in Ach-induced  $\text{Ca}^{2+}$  release in PC12 cells. NAD 2008: Emerging roles of NAD & NAD-metabolites in cell signaling. Hamburg, Germany, September 13- 18, 2008
  15. **Yue J**. The mechanism of mitotic activation of Plk1 in *Xenopus* egg extracts. The 2007 Stohlman Scholar Symposium of Leukemia and Lymphoma Society, Anaheim, California, November 8-9, 2007, 2007
  16. **Yue J**. Mechanistic study of mitotic activation of Mos proto-oncoprotein and the role of Mos in spindle assemble checkpoint. Keystone Symposia on Cancer and Kinases. Santa Fe, NM, February 14-19, 2006.
  17. **Yue J**, Ferrell JE. The mechanism of mitotic activation of Mos at *Xenopus* egg extract: requirement of Ser105 dephosphorylation for Cdc2-induced Mos activation. 5<sup>th</sup> Salk Institute/EMBL Oncogenes and Growth Control Meeting, San Diego, CA, August 12-16, 2005.
  18. **Yue J**, Ferrell JE. Requirement of Mos for spindle assemble checkpoint in somatic cells and *Xenopus* egg extracts. 4<sup>th</sup> Salk Institute Cell Cycle Meeting, San Diego, CA, June 24-27, 2005 (oral presentation)
  19. **Yue J**, Ferrell JE. Identification of Mos as the mitotic MEKK that mediates Cdc2/cyclin B activation of the p42 MAPK pathway in *Xenopus* Egg Extracts. 1<sup>st</sup> Young Investigators Forum, The American Heart Association, Western States Affiliate, University of California, San Francisco, Sept 26, 2003
  20. **Yue J**, Mulder KM. Requirement of Ras, Erks, and SAPK/JNK for TGFbeta1 autoinduction in a Smad4 independent pathway. 3<sup>rd</sup> International Conference on TGFbeta: Biological Mechanisms and Clinical Application. Bethesda, MD. Sept 20-22, 1999
  21. **Yue J**, Mulder KM. Requirement of Ras and SAPK for TGFbeta1 Autoinduction. Biochemistry & Molecular Biology '99. San Francisco, CA. May 16-20, 1999
  22. **Yue J**, Mulder KM. Cross-talk between the Smad1 and Ras/MEK signaling pathways for TGFbeta. Gordon Research Conference: Peptide growth factor. Kimball Union Academy, NH. August 09-14, 1998.
  23. **Yue J**, Mulder KM. TGFbeta signaling components and cross-talk between the Smad and Ras/MAPK signaling cascades in epithelial cells. Eighty-ninth annual meeting American Association for Cancer Research, New Orleans, LA, March 28-April 1, 1998.

24. **Yue J**, Mulder KM. Blockade of TGFbeta3 up-regulation of p27Kip1 and p21Cip1 by expression of RasN17 in epithelial cells. Keystone Symposia on Molecular and Cell Biology: Temporal and Spatial Determinants of Specificity in signal Transduction, Keystone, Colorado, March 31-April 6, 1997.

#### **THESIS EXAMING COMMITTEE**

Guo Anchen, PhD candidate in Department of Anatomy, HKU, 2011  
 Ge Xuan, PhD candidate in Department of Medicine, HKU, 2012  
 Mao Xiaowen, PhD candidate in Department of Anaesthesiology, HKU, 2013  
 Lu Xibin, PhD candidate in Department of Biochemistry, HKU, 2014  
 Chen Leilei, PhD candidate in School of Chinese Medicine, HKBU, 2015  
 Wang Yiping, PhD candidate in Department of Biomedical Sciences, CityU, 2015  
 Wang Jun, PhD candidate in Department of Biomedical Sciences, CityU, 2015  
 Li Linqiu, PhD candidate in Department of Biomedical Sciences, CityU, 2015  
 Xu Wei, MPhil candidate in School of Chinese Medicine, HKBU, 2016  
 ALQOUQA Iyad A S, PhD candidate in BMS, CityU, 2016  
 Mao Haitao, PhD candidate in Medical Sciences, CUHK, 2016  
 Zhu Xiaoyue, PhD candidate in Physics and Materials Science, CityU, 2016  
 Chao Bin, PhD candidate in BMS, CityU, 2017  
 Li Zhichao, PhD candidate in School of Biomedical Sciences, CUHK, 2017  
 Ma Lili, PhD candidate in Chemistry, CityU, 2017  
 Qiu Xianxiu, PhD candidate in ABCT, PolyU, 2017  
 Yu Wai Kin, PhD candidate in BMS, CityU, 2017  
 ASTHANA Pallavi, PhD candidate in BMS, CityU, 2017  
 Chan Hung, MPhil candidate in Medical Sciences, CUHK, 2018  
 BEGUM Musammat Kulsuma, MPhil candidate in BMS, CityU, 2018  
 Zhao, Qiannan, PhD candidate in SBMS, CUHK, 2018  
 Liu Meijin, PhD candidate in BMS, CityU, 2018  
 Yang Luo, PhD candidate in Clinical Immunology, Sun Yat-sen University, 2018  
 Zhang Ximei, PhD candidate in Clinical Immunology, Sun Yat-sen University, 2018  
 MURUGAPPAN Suresh Kanna, PhD candidate in BMS, CityU, 2018  
 CHAN Yuen San, PhD candidate in BMS, CityU, 2018  
 Hannah Tetteh, PhD candidate in BMS, CityU, 2019  
 Chen Xibing, PhD candidate in Life Science, HKUST, 2019  
 Dan Xuelian, PhD candidate in BMS, CityU, 2019  
 Kan Tongtong, PhD candidate in BMS, CityU, 2019  
 Ren Yutian, PhD candidate in BMS, CityU, 2019  
 Yu Hongyan, PhD candidate in SBMS, CUHK, 2020  
 Guo Chenxi, PhD candidate in Life Science, HKUST, 2020  
 Zhen Xuejiao, PhD candidate in BMS, CityU, 2020  
 Zhu Xiaoxuan, PhD candidate in BMS, CityU, 2020  
 Li Yingxue, PhD candidate in BMS, CityU, 2020  
 Hu Jianyang, PhD candidate in BMS, CityU, 2020  
 Lee Sunghun, PhD candidate in BMS, CityU, 2020  
 Chen Jing, PhD candidate in Life Science, Tsinghua University (Beijing), 2020  
 Xie Xiang, PhD candidate in Department of Anaesthesiology, HKU, 2020

Liu Jianxian, PhD candidate in BMS, CityU, 2020  
 Ma Suiyi, PhD candidate in BMS, CityU, 2020  
 Md Kowsar Alam, PhD candidate in BMS, CityU, 2020  
 Peng Yujie, PhD candidate in BMS, CityU, 2020  
 Ding Qiangqian, PhD candidate in Biology, CUHK, 2021  
 MARYAM Alishba, PhD candidate in BMS, CityU, 2021  
 KOOMSON Emmanuel, PhD candidate in BMS, CityU, 2021  
 Zhang XiaoZhe, PhD candidate in ABCT, PolyU, 2021  
 Chan Hung, PhD candidate in Medical Sciences, CUHK, 2022  
 Lei Zhuogui, PhD candidate in BMS, CityU, 2022  
 Wang Yixin, PhD candidate in Department of Microbiology, HKU, 2022

### **INSTITUTIONAL COMMITTEE SERVICE:**

Academic Conduct Committee, member, CityU, 2018-  
 College Grade Review Committee (CGRC), member, CityU, 2018 to 2020.  
 Program leader, Program of Biological Sciences, City U, 2017-  
 COLLEGE VALIDATION AND MONITORING COMMITTEE, member, City U,  
 2016-2017  
 Admission Tutor, Bachelor of Science in Biomedical Sciences, City U, 2014-2017  
 Member, Board of Studies of Master of Medical Sciences, HKU, 2011-2014  
 Course Coordinator for Cell Biology (PHY0100), HKU, 2011-2014  
 Course Coordinator for Concepts of Human Physiology (PHY06200) HKU, 2011-  
 2014  
 Course Coordinator of BPHM1005/2005 Physiology and Pathophysiology, HKU,  
 2011-2014  
 Faculty Health and Safety Committee, HKU, 2011-2014  
 Biosafety Officer of Department of Physiology, HKU, 2011-2014  
 Fire Warden of Department of Physiology, HKU, 2011-2014

### **INDUSTRY EXPERIENCE:**

2021-present: Co-Founder, VBT Biotechnology (Hong Kong): a biotech startup to develop antiviral drugs based on endosomal trafficking and Ca<sup>2+</sup> signaling. Funds received: 2021, CityU ITC TSSSU (500,000 HKD)

2018-present: Co-Founder, 6J Biotechnology (Hong Kong): a biotech startup to develop anticancer drugs based on endosomal trafficking and anticancer immunity. Funds received: 2018, CityU ITC TSSSU (740,000 HKD); 2019, CityU ITC TSSSU (820,000 HKD); CityU ITC TSSSU 2020 (1,000,000 HKD), Hong Kong Science Park, Incu-Bio (6,000,000 HKD).

2001-2005: Consultant, Applied Biosystems, Foster City, CA 94404

Curator for PANTHER, a robust and accurate classification system used to analyze protein sequences relationships and their corresponding functions (<http://panther.appliedbiosystems.com/>)

**COMMUNITY SERVICE:**

Judge, Undergraduate student poster presentation, 2014 ASBMB annual meeting,  
2014-04-26

Representative, Cell Biology in Hong Kong, 2011 ASCB annual meeting, 2011-12-09

**PROFESSIONAL MEMBERSHIPS:**

American Society for Biochemistry and Molecular Biology

The American Society for Cell Biology

American Association for Cancer Research

American Association for the Advancement of Science