

King-Ho CHEUNG
Associate Professor
Chinese Medicine - Teaching and Research Division
Email: kingho@hkbu.edu.hk



Chinese Name

張敬浩

Employment

Associate Professor

Chinese Medicine - Teaching and Research Division
Hong Kong Baptist University
Hong Kong
1 Sep 2020 → present

Research outputs

- Corynoxine B derivative CB6 prevents Parkinsonian toxicity in mice by inducing PIK3C3 complex-dependent autophagy**
Zhu, Z., Liu, L. F., Su, C. F., Liu, J., Tong, B. C. K., Iyaswamy, A., Krishnamoorthi, S., Sreenivasurthy, S. G., Guan, X. J., Kan, Y. X., Xie, W. J., Zhao, C. L., Cheung, K. H., Lu, J. H., Tan, J. Q., Zhang, H. J., Song, J. X. & Li, M., Oct 2022, In: *Acta Pharmacologica Sinica*. 43, 10, p. 2511-2526 16 p.
- TFEB, a master regulator of autophagy and biogenesis, unexpectedly promotes apoptosis in response to the cyclopentenone prostaglandin 15d-PGJ2**
Yang, C. B., Liu, J., Tong, B. C. K., Wang, Z. Y., Zhu, Z., Su, C. F., Sreenivasurthy, S. G., Wu, J. X., Iyaswamy, A., Krishnamoorthi, S., Huang, S. Y., Cheung, K. H., Song, J. X., Tan, J. Q., Lu, J. H. & Li, M., May 2022, In: *Acta Pharmacologica Sinica*. 43, 5, p. 1251-1263 13 p.
- Theranostic F-SLOH mitigates Alzheimer's disease pathology involving TFEB and ameliorates cognitive functions in Alzheimer's disease models**
Iyaswamy, A., Wang, X., Krishnamoorthi, S., Kaliamoorthy, V., Sreenivasurthy, S. G., Kumar Durairajan, S. S., Song, J-X., Tong, B. C. K., Zhu, Z., Su, C-F., Liu, J., Cheung, K-H., Lu, J-H., Tan, J-Q., Li, H. W., Wong, M. S. & Li, M., May 2022, In: *Redox Biology*. 51, 21 p., 102280.
- Celastrol enhances transcription factor EB (TFEB)-mediated autophagy and mitigates Tau pathology: Implications for Alzheimer's disease therapy**
Yang, C., Su, C., Iyaswamy, A., Krishnamoorthi, S. K., Zhu, Z., Yang, S., Tong, B. C., Liu, J., Sreenivasurthy, S. G., Guan, X., Kan, Y., Wu, A. J., Huang, A. S., Tan, J., Cheung, K., Song, J. & Li, M., Apr 2022, In: *Acta Pharmaceutica Sinica B*. 12, 4, p. 1707-1722 16 p.
- Mechanistic Insights into Selective Autophagy Subtypes in Alzheimer's Disease**
Guan, X., Iyaswamy, A., Sreenivasurthy, S. G., Su, C., Zhu, Z., Liu, J., Kan, Y., Cheung, K. H., Lu, J., Tan, J. & Li, M., Apr 2022, In: *International Journal of Molecular Sciences*. 23, 7, 22 p., 3609.
- Lysosomal TPCN (two pore segment channel) inhibition ameliorates beta-amyloid pathology and mitigates memory impairment in Alzheimer disease**
Tong, B. C-K., Wu, A. J., Huang, A. S., Dong, R., Malampati, S., Iyaswamy, A., Krishnamoorthi, S., Sreenivasurthy, S. G., Zhu, Z., Su, C., Liu, J., Song, J., Lu, J. H., Tan, J., Pan, W., Li, M. & Cheung, K-H., 4 Mar 2022, In: *Autophagy*. 18, 3, p. 624-642 19 p.
- Protopine promotes the proteasomal degradation of pathological tau in Alzheimer's disease models via HDAC6 inhibition**
Sreenivasurthy, S. G., Iyaswamy, A., Krishnamoorthi, S., Senapati, S., Malampati, S., Zhu, Z., Su, C. F., Liu, J., Guan, X. J., Tong, B. C. K., Cheung, K. H., Tan, J. Q., Lu, J. H., Durairajan, S. S. K., Song, J. X. & Li, M., Feb 2022, In: *Phytomedicine*. 96, 14 p., 153887.
- Qingyangshen mitigates amyloid- β and Tau aggregate defects involving PPAR α -TFEB activation in transgenic mice of Alzheimer's disease**
Iyaswamy, A., Krishnamoorthi, S. K., Zhang, H., SREENIVASA MURTHY, S. G. S., Zhu, Z., Liu, J., Su, C. F., Guan, X. J., Wang, Z. Y., Cheung, K. H., Song, J., Durairajan, S. S. K. & Li, M., Oct 2021, In: *Phytomedicine*. 91, 153648.

9. **NRBF2 is a RAB7 effector required for autophagosome maturation and mediates the association of APP-CTFs with active form of RAB7 for degradation**
Cai, C. Z., Yang, C., Zhuang, X. X., Yuan, N. N., Wu, M. Y., Tan, J. Q., Song, J. X., Cheung, K. H., Su, H., Wang, Y. T., Tang, B. S., Behrends, C., Durairajan, S. S. K., Yue, Z., Li, M. & Lu, J. H., 4 May 2021, In: *Autophagy*. 17, 5, p. 1112-1130 19 p.
10. **Houttuynia Cordata Essential Oil Mitigates Airway Remodeling in Asthma by Rectifying IP3R-mediated Ca²⁺ Disruption**
Huang, A. S., Hung, C. H., Tong, B. C. K., Wu, A. J., Bai, J., Fu, X., Yu, Z. & Cheung, K. H., May 2021, In: *FASEB Journal*. 35, S1
11. **Yuan-Hu Zhi Tong Prescription Mitigates Tau Pathology and Alleviates Memory Deficiency in the Preclinical Models of Alzheimer's Disease**
IYASWAMY, A., Krishnamoorthi, S. K., Liu, Y. W., Song, J. X., Kammala, A. K., Sreenivasmurthy, S. G., Malampati, S., Tong, B. C. K., Selvarasu, K., Cheung, K. H., Lu, J. H., Tan, J. Q., Huang, C. Y., Durairajan, S. S. K. & LI, M., 30 Oct 2020, In: *Frontiers in Pharmacology*. 11, 584770.
12. **Rectifying Attenuated Store-Operated Calcium Entry as a Therapeutic Approach**
Huang, A. S., Tong, B. C. K., Wu, A. J., Chen, X., Sreenivasmurthy, S. G., Zhu, Z., Liu, J., Su, C., Li, M. & Cheung, K-H., Oct 2020, In: *Current Alzheimer Research*. 17, 12, p. 1072-1087 16 p.
13. **A stress response p38 MAP kinase inhibitor SB202190 promoted TFEB/TFE3-dependent autophagy and lysosomal biogenesis independent of p38**
Yang, C., Zhu, Z., Tong, C. K. B., Iyaswamy, A., Xie, W. J., Zhu, Y., Sreenivasmurthy, S. G., Senthilkumar, K., Cheung, K-H., Song, J. X., Zhang, H. & Li, M., May 2020, In: *Redox Biology*. 32, 101445.
14. **Mitochondrial calcium signaling as a therapeutic target for alzheimer's disease**
Wu, A. J., Tong, B. C. K., Huang, A. S., Li, M. & Cheung, K. H., Apr 2020, In: *Current Alzheimer Research*. 17, 4, p. 329-343 15 p.
15. **A curcumin derivative activates TFEB and protects against parkinsonian neurotoxicity in vitro**
Wang, Z., Yang, C., Liu, J., Tong, C. K. B., Zhu, Z., Malampati, S., Sreenivasmurthy, S. G., Cheung, K-H., IYASWAMY, A., Su, C., Lu, J., Song, J. & LI, M., 2 Feb 2020, In: *International Journal of Molecular Sciences*. 21, 4, 1515.
16. **A small molecule transcription factor EB activator ameliorates beta-amyloid precursor protein and Tau pathology in Alzheimer's disease models**
Song, J. X., Malampati, S., Zeng, Y., Durairajan, S. S. K., Yang, C., Tong, C. K. B., Iyaswamy, A., Shang, W. B., Sreenivasmurthy, S. G., Zhu, Z., Cheung, K-H., Lu, J. H., Tang, C., Xu, N. & Li, M., Feb 2020, In: *Aging Cell*. 19, 2, e13069.
17. **Targeting Aggrephagy for the Treatment of Alzheimer's Disease**
Malampati, S., Song, J. X., Chun-Kit Tong, B., Nalluri, A., Yang, C-B., Wang, Z., Gopalkrishnashetty Sreenivasmurthy, S., Zhu, Z., Liu, J., Su, C., Krishnamoorthi, S., Iyaswamy, A., Cheung, K-H., Lu, J-H. & Li, M., Feb 2020, In: *Cells*. 9, 2, 21 p., 311.
18. **NeuroDefend, a novel Chinese medicine, attenuates amyloid- β and tau pathology in experimental Alzheimer's disease models**
Iyaswamy, A., Krishnamoorthi, S. K., Song, J. X., Yang, C. B., Kaliyamoorthy, V., Zhang, H., Sreenivasmurthy, S. G., Malampati, S., Wang, Z. Y., Zhu, Z., Tong, B. C. K., Cheung, K. H., Lu, J. H., Durairajan, S. S. K. & Li, M., Jan 2020, In: *Journal of Food and Drug Analysis*. 28, 1, p. 132-146 15 p.
19. **Balancing mTOR signaling and autophagy in the treatment of Parkinson's disease**
Zhu, Z., Yang, C., Iyaswamy, A., Krishnamoorthi, S., Sreenivasmurthy, S. G., Liu, J., Wang, Z., Tong, C. K. B., Song, J., Lu, J., Cheung, K-H. & Li, M., 1 Feb 2019, In: *International Journal of Molecular Sciences*. 20, 3, 728.
20. **Calcium signaling in Alzheimer's disease & therapies**
Tong, C. K. B., Wu, A. J., Li, M. & Cheung, K-H., Nov 2018, In: *Biochimica et Biophysica Acta - Molecular Cell Research*. 1865, 11, Part B, p. 1745-1760 16 p.
21. **InsP₃-SEC5 interaction on phagosomes modulates innate immunity to *Candida albicans* by promoting cytosolic Ca²⁺ elevation and TBK1 activity**
Yang, L., Gu, W., Cheung, K. H., Yan, L., Tong, B. C. K., Jiang, Y. & Yang, J., 27 Apr 2018, In: *BMC Biology*. 16, 46.
22. **Characterization of Two-Pore Channel 2 by Nuclear Membrane Electrophysiology**
Lee, C. S. K., Tong, B. C. K., Cheng, C. W. H., Hung, H. C. H. & Cheung, K. H., 3 Feb 2016, In: *Scientific Reports*. 6, p. 1-12 12 p., 20282.
23. **Isolating nuclei from cultured cells for patch-clamp electrophysiology of intracellular Ca(2+) channels**
Mak, D. O. D., Cheung, K. H., Vais, H. & Foskett, J. K., 1 Sep 2013, In: *Cold Spring Harbor Protocols*. 9, p. 880-884 5 p.
24. **Nuclear patch-clamp electrophysiology of Ca²⁺ channels**
Mak, D. O. D., Vais, H., Cheung, K. H. & Foskett, J. K., Sep 2013, In: *Cold Spring Harbor Protocols*. 9, p. 885-891 7 p.

25. **Patch-clamp electrophysiology of intracellular Ca²⁺ channels**
Mak, D. O. D., Cheung, K. H., Vais, H. & Foskett, J. K., Sep 2013, In: Cold Spring Harbor Protocols. 9, p. 787-797 11 p.
26. **Mechanism of Ca²⁺ Disruption in Alzheimer's Disease by Presenilin Regulation of InsP₃ Receptor Channel Gating**
CHEUNG, K-H., Shineman, D., Müller, M., Cárdenas, C., Mei, L., Yang, J., Tomita, T., Iwatsubo, T., Lee, V.M.Y. & Foskett, J.K., Jun 2008, In: Neuron. 58, 6, p. 871-883 13 p.
27. **Mode switching is the major mechanism of ligand regulation of InsP₃ receptor calcium release channels**
Ionescu, L., White, C., CHEUNG, K-H., Shuai, J., Parker, I., Pearson, J.E., Foskett, J.K. & Mak, D.O.D., Dec 2007, In: Journal of General Physiology. 130, 6, p. 631-645 15 p.
28. **Inositol trisphosphate receptor Ca²⁺ release channels**
Foskett, J.K., White, C., CHEUNG, K-H. & Mak, D.O.D., Apr 2007, In: Physiological Reviews. 87, 2, p. 593-658 66 p.
29. **Graded recruitment and inactivation of single InsP₃ receptor Ca²⁺-release channels: Implications for quartal Ca²⁺-release**
Ionescu, L., CHEUNG, K-H., Vais, H., Mak, D.O.D., White, C. & Foskett, J.K., Jun 2006, In: Journal of Physiology. 573, 3, p. 645-662 18 p.
30. **The presenilin-2 loop peptide perturbs intracellular Ca²⁺ homeostasis and accelerates apoptosis**
Cai, C., Lin, P., CHEUNG, K-H., Li, N., Levchook, C., Pan, Z., Ferrante, C., Boulianne, G. L., Foskett, J. K., Danielpour, D. & Ma, J., Jun 2006, In: Journal of Biological Chemistry. 281, 24, p. 16649-55 7 p.
31. **DANGER, a novel regulatory protein of inositol 1,4,5-trisphosphate-receptor activity**
Van Rossum, D.B., Patterson, R.L., CHEUNG, K-H., Barrow, R.K., Syrovatkina, V., Gessell, G.S., Burkholder, S.G., Watkins, D.N., Foskett, J.K. & Snyder, S.H., 2006, In: Journal of Biological Chemistry. 281, 48, p. 37111-37116 5 p.
32. **Cell-cell interaction underlies formation of fluid in the male reproductive tract of the rat**
Cheung, K., Leung, G. P. H., Leung, M. C. T., Shum, W. W. C., Zhou, W. & Wong, P. Y. D., 1 May 2005, In: Journal of General Physiology. 125, 5, p. 443-454 12 p.
33. **Secretin controls anion secretion in the rat epididymis in an autocrine/paracrine fashion**
Chow, B.K.C., CHEUNG, K-H., Tsang, E.M.W., Leung, M.C.T., Lee, S.M.Y. & Wong, P.Y.D., Jun 2004, In: Biology of Reproduction. 70, 6, p. 1594-1599 6 p.
34. **Regulation of epididymal principal cell functions by basal cells: Role of transient receptor potential (Trp) proteins and cyclooxygenase-1 (COX-1)**
Leung, G.P.H., CHEUNG, K-H., Leung, C.T., Tsang, M.W. & Wong, P.Y.D., Mar 2004, In: Molecular and Cellular Endocrinology. 216, 1-2, p. 5-13 9 p.
35. **Synergistic effects of cystic fibrosis transmembrane conductance regulator and aquaporin-9 in the rat epididymis**
CHEUNG, K-H., Leung, C.T., Leung, G.P.H. & Wong, P.Y.D., May 2003, In: Biology of Reproduction. 68, 5, p. 1505-1510 6 p.
36. **Indazole inhibition of cystic fibrosis transmembrane conductance regulator Cl⁻ channels in rat epididymal epithelial cells**
Gong, X.D., Linsdell, P., CHEUNG, K-H., Leung, G.P.H. & Wong, P.Y.D., Dec 2002, In: Biology of Reproduction. 67, 6, p. 1888-1896 9 p.
37. **Expression of the cystic fibrosis transmembrane conductance regulator in rat spermatids: Implication for the site of action of antispermatogenic agents**
Gong, X.D., Li, J.C.H., CHEUNG, K-H., Leung, G.P.H., Chew, S.B.C. & Wong, P.Y.D., Aug 2001, In: Molecular Human Reproduction. 7, 8, p. 705-713 9 p.
38. **Expression of cystic fibrosis transmembrane conductance regulator in rat efferent duct epithelium**
Leung, G.P.H., Gong, X.D., CHEUNG, K-H., ChengChew, S.B. & Wong, P.Y.D., May 2001, In: Biology of Reproduction. 64, 5, p. 1509-1515 7 p.
39. **Na⁺ reabsorption in cultured rat epididymal epithelium via the Na⁺/nucleoside cotransporter**
Leung, G.P.H., CHEUNG, K-H., Tse, C.M. & Wong, P.Y.D., Mar 2001, In: Biology of Reproduction. 64, 3, p. 764-769 6 p.

Grants