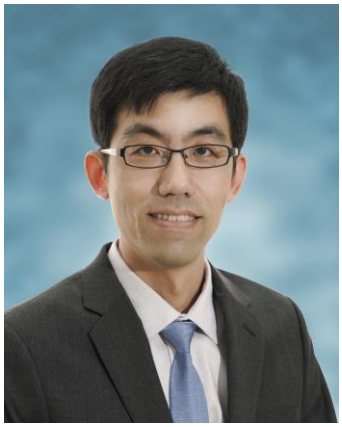
CURRICULUM VITAE

Haijie Yu, Ph.D.



Position: Associate Professor
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Research areas

1. Functional study of iron channel
2. Tumor immunology
3. Novel anticancer drugs from TCM

Experience

2023 – present	Associate professor, SKL, Macau University of Science and Technology
2017 – 2023	Assistant professor, SKL, Macau University of Science and Technology
2016 – 2017	Acting instructor, Neurology Department, University of Washington Mentor: Nicholas Poolos
2015 – 2016	Postdoc Fellow, Pharmacology Department, University of Washington Mentor: William Catterall,
2012 – 2015	Postdoc Fellow, Biophysics & Physiology Department, University of Washington Mentor: Bertil Hille,
2014 – 2014	Visiting scholar in Institute of Biophysics, Chinese Academy of Sciences, Beijing
2009 – 2012	Postdoc Fellow in LCMS, the Queen's Medical Center, Honolulu Mentor: Andrea Fleig & Reinhold Penner
2008 – 2009	Graduate Researcher in LCMS, the Queen's Medical Center, Honolulu
2005 – 2006	Graduate Research Assistance in School of Life Science in Sun Yat-sen University, P.R. China

Education

2006 – 2009	PhD in Physiology, Sun Yat-sen University, P.R. China. Advisor: Wenliang Zhou. Thesis title: Regulation of Cl- secretion in the epithelial cells and effects of Cl^- on TRPM7 channel
2003 – 2005	Master in Physiology, Sun Yat-sen University, P.R. China. Advisor: Wenliang Zhou. Thesis title: Effect of naringenin stimulation of anion secretion and its signal transduction on epithelium of rat's distal colon
1999 – 2003	BS Degree in Biological Sciences, Shanxi University, P.R. China

Teaching

Pathophysiology, Toxicology, Chinese medicine pharmacology, Molecular pharmacology, Microbiology and immunology

Methodologies

Patch clamp electrophysiology, fluorescent imaging, fluorescence based high through drug screening, immunofluorescence, western blot, qRT-PCR, cell culture, animal handling, brain slicing and primary cell culture.

Peer-reviewed Publications (*corresponding author)

1. Li J, Wu Z, Chen G, Wang X, Zhu X, Zhang Y, Zhang R, Wu W, Zhu Y, Ma L, **Yu H***. Formosanin C inhibits non-small-cell lung cancer progression by blocking MCT4/CD147-mediated lactate export. ***Phytomedicine***, 2023 Jan, 109:154618.

2. Chen X, Li J, Zhang R, Zhang Y, Wang X, Leung EL, Ma L, Wong VKW*, Liu L*, Neher E*, **Yu H***. Suppression of PD-L1 release from small extracellular vesicles promotes systemic anti-tumor immunity by targeting ORAI1 calcium channels. ***Journal of Extracellular Vesicles***, 2022. Dec;11(12):e12279.

3. Chen G, Zhu X, Li J, Zhang Y, Wang X, Zhang R, Qin X, Chen X, Wang J, Liao W, Wu Z, Lu L, Wu W, **Yu H***, Ma L*. Celastrol inhibits lung cancer growth by triggering histone acetylation and acting synergically with HDAC inhibitors. ***Pharmacol Res.*** 2022 Oct 3:106487.

4. Leung EL*, Huang J, Zhang J, Zhang J, Wang M, Zhu Y, Meng Z, **Yu H**, Neher E, Ma L*, Yao X*. Novel Anticancer Strategy by Targeting the Gut Microbial Neurotransmitter Signaling to Overcome Immunotherapy Resistance. ***Antioxid Redox Signal.*** 2022, Nov 1. doi: 10.1089/ars.2021.0243. Online ahead of print.

5. Chen J, Luo SF, Yuan X, Wang M, **Yu H**, Zhang Z, Yang YY. Diabetic kidney disease-predisposing proinflammatory and profibrotic genes identified by weighted gene co-expression network analysis (WGCNA). ***J Cell Biochem.*** 2022, 123(2):481-492

6. Wang X, Liu Z, Ma L, **Yu H***. Ferroptosis and its emerging role in tumor. ***Biophysics Reports***, 2021, 7(4): 280-294.

7. Li J, Zhang Y, Chen X, Ma L, Li P*, **Yu H***. Protein phase separation and its role in chromatin organization and diseases. ***Biomed Pharmacother*.** 2021 Jun;138:111520

8. **Yu H**, Yuan C, Westenbroek RE, Catterall WA. The AKAP Cypher/Zasp contributes to β-adrenergic/PKA stimulation of cardiac CaV1.2 calcium channels. ***J Gen Physiol.*** 2018 Jun 4;150(6):883-889.

9. Traynor-Kaplan A, Kruse M, Dickson EJ, Dai G, Vivas O, **Yu H**, Whittington D, Hille B. Fatty-acyl chain profiles of cellular phosphoinositides. ***Biochim Biophys Acta.*** 2017 Feb 9;1862(5):513-522.

10. Yang L, Dai DF, Yuan C, Westenbroek RE, **Yu H**, West N, de la Iglesia HO, Catterall WA. Loss of β-adrenergic-stimulated phosphorylation of CaV1.2 channels on Ser1700 leads to heart failure. ***Proc Natl Acad Sci U S A.*** **2**016 Dec 6;113(49):E7976-E7985.

11. **Yu H**#, Benitez SG#, Jung SR, Farias Altamirano LE, Kruse M, Seo JB, Koh D, Muñoz EM, Hille B. GABAergic signaling in the rat pineal gland. ***J Pineal Res.*** 2016 Aug;61(1):69-81. (# equal contribution)

12. Dai G, **Yu H**, Kruse M, Traynor-Kaplan A and Hille B. Osmoregulatory inositol transporter SMIT1 modulates electrical activity by adjusting PI(4,5)P2 levels. ***Proc Natl Acad Sci U S A.*** 2016 Jun 7;113(23):E3290-9

13. Xu X, Ali S, Li Y, **Yu H**, Zhang M, Lu J, Xu T. 2-Aminoethoxydiphenyl Borate Potentiates CRAC Current by Directly Dilating the Pore of Open Orai1. ***Sci Rep.*** 2016 Jul 4;6:29304.

14. **Yu H**, Dickson EJ, Jung SR, Koh DS, Hille B. High membrane permeability for melatonin. ***J Gen Physiol.*** 2016 Jan;147(1):63-76

15. **Yu H**, Seo JB, Jung SR, Koh DS, Hille B. Noradrenaline upregulates T-type calcium channels in rat pinealocytes. ***J Physiol.*** 2015 Feb 15;593(4):887-904

16. Zhang Z, Faouzi M, Huang J, Geerts D, **Yu H**, Fleig A, Penner R. N-Myc-induced up-regulation of TRPM6/TRPM7 channels promotes neuroblastoma cell proliferation. ***Oncotarget.*** 2014 Sep 15;5(17):7625-34.

17. Zhang Z#, **Yu H**#, Huang J, Faouzi M, Schmitz C, Penner R, Fleig A. The TRPM6 kinase domain determines the Mg·ATP sensitivity of TRPM7/M6 heteromeric ion channels. ***J Biol Chem.*** 2014 Feb 21;289(8):5217-27. (# equal contribution)

18. **Yu H**#, Zhang Z#, Lis A, Penner R, Fleig A. TRPM7 is regulated by halides through its kinase domain. ***Cell Mol Life Sci.*** 2013 Aug;70(15):2757-71. (# equal contribution)

19. **Yu H**, Chen S, Yang Z, Pan A, Zhang G, Shan J, Tang X, Zhou W. Trimethyltin chloride induced chloride secretion across rat distal colon. ***Cell Biol Int.*** 2009 Dec 16;34(1): 99-108.

20. Yang Z#, **Yu H**#, Pan A, Du J, Ruan Y, Ko W, Chan H, Zhou W. Cellular mechanisms underlying the laxative effect of flavonol naringenin on rat constipation model. ***PLoS One*** 2008 Oct 3;3(10):e3348. (# equal contribution)

21. Yang Z, Pan A, Ruan Y, **Yu H**, Wu Z, Xiang H, Zhou W. Cellular mechanism of adrenalin stimulated chloride secretion via beta-adrenoceptor in T84 cells. ***Cell Biol Int.*** 2008 Jun;32(6):679-87. Epub 2008 Feb 3.

References

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William Catterall	My supervisor, University of Washington Department of Pharmacology University Box 357290 Seattle, WA 98195-7290, USA. Email: wcatt@uw.edu Tel: 206 543 1925
Andrea Fleig	My supervisor, Director, Clinical Research, Office of Research and Development, the Queen's Medical Center, Honolulu, USA. Email: afleig@hawaii.edu Tel: 808 691 7931
Reinhold Penner	My supervisor, Full Researcher and Program Director, Cancer Biology, University of Hawaii, Honolulu, USA. Email: rpenner@hawaii.edu Tel: (808) 585-5366