

CURRICULUM VITAE

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Position: Assistant Professor

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Experience

- 2017- present Assistant professor, SKL, Macau University of Science and Technology
Assistant professor, Zhuhai Research Institute of MUST
- 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

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

1. 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.
2. 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.

3. 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*. 2016 Dec 6;113(49):E7976-E7985.
4. **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)
5. 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
6. 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 Orail. *Sci Rep*. 2016 Jul 4;6:29304.
7. **Yu H**, Dickson EJ, Jung SR, Koh DS, Hille B. High membrane permeability for melatonin. *J Gen Physiol* 2016 Jan;147(1):63-76
8. **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
9. 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.
10. 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)
11. **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)
12. **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.
13. 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)
14. 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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| 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 |