

CURRICULUM VITAE

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Experience

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

Education

1999 – 2003 BS Degree in Biological Sciences, Shanxi University, P.R. China
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
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

Methodologies

Patch clamp electrophysiology, fluorescent imaging, 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

- Bertil Hille My supervisor, University of Washington Physiology and Biophysics Department University Box 357290 Seattle, WA 98195-7290, USA. Email: hille@uw.edu Tel: 206 543 8639
- 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