

# Curriculum Vitae

Dr. Yuemin Tian

## Research Interest

I am interested in the process of electrolyte transport through ion channels that takes place in epithelial tissues from airways and intestine.

## EDUCATION

04/2014 - now Postdoc fellow at the Institute of Physiology, University Hospital Aachen (RWTH-Aachen)

2012 - 2014 Postdoc fellow at Johns Hopkins University

2008 - 2012 Ph.D, Physiology, University of Regensburg, Germany. Title of thesis: Regulation and function of Anoctamins, a family of Ca<sup>2+</sup> activated Cl-channels.

2004 - 2007 Master, Physiology, Capital University of Medical Sciences, School of Basic Medical Sciences, China. Title of thesis: Alteration of dopaminergic markers in gastrointestinal tract of different rodent models of Parkinson's disease.

1999 - 2003 Bachelor, Agriculture, Beijing Forestry University, School of Soil and Water Conservation, China. Title of thesis: Rhododendron soilless culture.

## RESEARCH EXPERIENCE

04/2014 - now Postdoc fellow - Institute of Physiology, University Hospital Aachen (RWTH-Aachen)

2012 - 2014 Postdoc fellow - Johns Hopkins University, School of Medicine, Department of Physiology, Dr. William B. Guggino's lab.

Projects:

- 1) a new channel found in catfish lateral line
- 2) function of anoctamin 5 in plasma membrane repair

2007-2008 Research Assistant-Chinese University of Hong Kong, Epithelia Cell Biology Research Center, Department of Physiology, Dr. Hsiao Chang Chan's lab.

Projects:

- 1) virus transform embryo fiber blast cells into pluripotent stem cells
- 2) attempt to treat tumor by Chinese medicine

## TEACHING EXPERIENCE

2011 - 2012 Taught electrophysiology techniques to practice students

2004 - 2005 Taught physiology practice course to undergraduate medical students

## SKILLS & TECHNIQUES

Live cell imaging, Stem cell culture, Plasmid Transfection, Virus Transduction, Patch clamp, Double electrode voltage clamp, Ussing chamber, RNA and DNA isolation, RT-realtime-PCR, Gene clone, Protein isolation, Immunoprecipitation, Protein gel electrophoresis, Western blotting, Immunofluorescence

## PUBLICATIONS

1. **Tian Y**, Schreiber R, Wanitchakool P, Kongsuphol P, Sousa M, Uliyakina I, Palma M, Faria D, Traynor-Kaplan E. A, Fragata I. J, Amaral D. M, and Kunzelmann K. (2013)  
Control of TMEM16A by INO-4995 and other inositolphosphates.  
*Br J Pharmacol.* 168:253-65.
2. **Tian Y**, Schreiber R, and Kunzelmann K. (2012)  
Anoctamins are a family of Ca<sup>2+</sup>-activated Cl<sup>-</sup>-channels.  
*J Cell Sci.* 125:4991-8.
3. Oeggerli M, **Tian Y**, Ruiz C, Wijker B, Sauter G, Obermann E, Güth U, Zlobec I, Sausbier M, Kunzelmann K, and Bubendorf L. (2012)  
Role of KCNMA1 in Breast Cancer.  
*PLoS One.* 7, e41664.
4. Kunzelmann K, **Tian Y**, Martins JR, Faria D, Kongsuphol P, Ousingsawat J, Wolf L, and Schreiber R. (2012)  
Airway epithelial cells-Functional links between CFTR and anoctamin dependent Cl<sup>-</sup>-secretion.  
*Int J Biochem Cell Biol.* 44, 1897-1900.
5. Faria D, Lentze N, Almaça J, Luz S, Alessio L, **Tian Y**, Martins JP, Cruz P, Schreiber R, Rezwan M, Farinha CM, Auerbach D, Amaral MD, and Kunzelmann K. (2012)  
Regulation of ENaC biogenesis by the stress response protein SERP1.  
*Pflugers Arch.* 463, 819-827
6. Liu Y, Jiang X, Zhang X, Chen R, Sun T, Fok KL, Dong J, Tsang LL, Yi S, Ruan Y, Guo J, Yu MK, **Tian Y**, Chung YW, Yang M, Xu W, Chung CM, Li T, and Chan HC. (2011)  
Dedifferentiation-reprogrammed mesenchymal stem cells with improved therapeutic potential.  
*Stem Cells.* 29, 2077-2089.
7. Kunzelmann K, Schreiber R, Kmit A, Jantarajit W, Martins JR, Faria D, Kongsuphol P, Ousingsawat J, and **Tian Y**. (2012)  
Expression and function of epithelial anoctamins.  
*Exp Physiol.* 97, 184-192.
8. Kunzelmann K, **Tian Y**, Martins JR, Faria D, Kongsuphol P, Ousingsawat J, Thevenod F, Roussa E, Rock J, and Schreiber R. (2011)  
Anoctamins.  
*Pflugers Arch.* 462, 195-208.
9. Ousingsawat J, Mirza M, **Tian Y**, Roussa E, Schreiber R, Cook DI, and Kunzelmann K. (2011)  
Rotavirus toxin NSP4 induces diarrhea by activation of TMEM16A and inhibition of Na<sup>(+)</sup> absorption  
*Pflugers Arch.* 461, 579-589.
10. Kunzelmann K, Kongsuphol P, Chootip K, Toledo C, Martins JR, Almaca J, **Tian Y**, Witzgall R, Ousingsawat J, and Schreiber R. (2011)  
Role of the Ca<sup>2+</sup>-activated Cl<sup>-</sup>-channels bestrophin and anoctamin in epithelial cells.  
*Biol Chem.* 392, 125-134.

11. **Tian Y**, Kongsuphol P, Hug M, Ousingsawat J, Witzgall R, Schreiber R, and Kunzelmann K. (2011)  
Calmodulin-dependent activation of the epithelial calcium-dependent chloride channel MEM16A.  
*FASEB J.* 25, 1058-1068.
12. Duning K, Rosenbusch D, Schlüter MA, **Tian Y**, Kunzelmann K, Meyer N, Schulze U, Markoff A, Pavenstädt H, and Weide T. (2010)  
Polycystin-2 activity is controlled by transcriptional coactivator with PDZ binding motif and PALS1-associated tight junction protein.  
*J Biol Chem.* 285, 33584-33588.
13. Kunzelmann K, Kongsuphol P, Aldehni F, **Tian Y**, Ousingsawat J, Warth R, and Schreiber R. (2009)  
Bestrophin and TMEM16-Ca(2+) activated Cl(-) channels with different functions.  
*Cell Calcium.* 46, 233-241.
14. Almaça J\*, **Tian Y\***, Aldehni F, Ousingsawat J, Kongsuphol P, Rock JR, Harfe BD, Schreiber R, and Kunzelmann K. (2009)  
TMEM16 proteins produce volume-regulated chloride currents that are reduced in mice lacking TMEM16A.  
*J Biol Chem.* 284, 28571-28578. (\*authors contributed equally)
15. Zhang XH, Zhang XF, Zhang JQ, **Tian YM**, Xue H, Yang N, and Zhu JX. (2008)  
Beta-adrenoceptors, but not dopamine receptors, mediate dopamine-induced ion transport in late distal colon of rats.  
*Cell Tissue Res.* 334, 25-35.
16. **Tian YM**, Chen X, Luo DZ, Zhang XH, Xue H, Zheng LF, Yang N, Wang XM, and Zhu JX. (2008)  
Alteration of dopaminergic markers in gastrointestinal tract of different rodent models of Parkinson's disease.  
*Neuroscience.* 153, 634-644.
17. Yang N, **Tian YM**, Zhang XH, Zheng LF, Xue H, Chen X, Zhu L, and Zhu JX. (2008)  
Dual role of 5-hydroxytryptamine receptor 3 in serotonin induced ion transport in rat distal colon.  
*Eur J Pharmacol.* 584, 137-143.
18. Xue H, **Tian YM**, Yan M, Yang N, Chen X, Xing Y, and Zhu JX. (2007)  
Appearance of segmental discrepancy of anion transport in rat distal colon.  
*Biol Pharm Bull.* 30, 1407-1411.