

Aidong Qi, Ph. D & MD

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Education:

Sep. 1994-Dec. 1997	Doctor of Philosophy Department of Pharmacology, Chinese University of Hong Kong
Sep. 1987-July 1990	Master of Medicine Department of Pharmacology, Shandong University, Shandong, China
Sep. 1980-July 1985	Bachelor of Medicine (equivalent to MD in US) Department of Clinical Medicine, Binzhou Medical University, Shandong, China

Academic Appointments:

August, 2015-present	Research Assistant Professor Department of Pediatrics, Vanderbilt University Medical Center
July, 2012-July, 2015	Research Assistant Professor Department of Biochemistry, Vanderbilt University
Jan, 2002-June, 2012 Oct, 1997-Dec, 2001	Research Assistant Professor Postdoctoral Research fellow, Department of Pharmacology, University of North Carolina at Chapel Hill
Aug. 1990-Aug. 1994	Lecturer of Pharmacology, Shandong Medical University, Shandong, China
Aug. 1985-July 1987	Attending physician, Central Hospital of Shengli Oilfield, Shandong, China

Professional Organization:

American Society for Pharmacology and Experimental Therapeutics

Teaching Activities:

Jan, 2002- Present	Research Assistant Professor, University of North Carolina, and Vanderbilt University Training students, Postdocs, and junior staff in the lab
Aug. 1990-Aug. 1994	Lecturer of Pharmacology, Shandong Medical University, Shandong, China Teaching Pharmacology for students in Schools of Medicine, Dentistry, Nursing, and Public Health

Publications and Presentations:

I. Articles in refereed journals:

1. Seunghyi Kook, **Aidong Qi**, Ping Wang, Shufang Meng, Peter Gulleman, Lisa Young, and Susan Guttentag (2018) Gene-edited MLE-15 cells as a model for the Hermansky Pudlak syndromes. *Am J Respir Cell Mol Biol.* 2018 May; **58**(5): 566-574 Published as “Major Technical Advances”
2. Tatiana Y. Hargrove, Laura Friggeri , Zdzislaw Wawrzak, **Aidong Qi**, William J. Hoekstra, John D. York, Frederic P. Guengerich, and Galina. I. Lepesheva. (2017) Structure-function and inhibition of sterol 14 α -demethylase (CYP51) from Candida albicans. Complexes with posaconazole and the tetrazole-based drug candidate VT-1161. *Journal of Biological Chemistry.* **292**(16): 6728 –6743
3. Young LR, Gulleman PM, Short CW, Tanjore H, Sherrill T, **Qi A**, McBride AP, Zaynagetdinov R, Benjamin JT, Lawson WE, Novitskiy SV, Blackwell TS. (2016) Epithelial-macrophage interactions determine pulmonary fibrosis susceptibility in Hermansky-Pudlak syndrome. *Journal of Clinical Investigation Insight.* 2016 Oct 20;1(17):e88947
4. Hong NH, **Qi A**, Weaver AM. (2015) PI(3,5)P₂ controls endosomal branched actin dynamics by regulating cortactin-actin interactions. *Journal of Cell Biology* **210**(5):753-69
Highlighted on *Journal of Cell Biology* 2015, **210**(5):682
Selected for Cover page in *Journal of Cell Biology* 2015, **210**(5) issue

5. **Qi AD**, Harden TK and Nicholas RA. (2013) Is GPR17 a P2Y receptor? Examination of uracil nucleotides, nucleotide-sugars, and cysteinyl-leukotrienes as agonists of GPR17. *Journal of Pharmacological and Experimental Therapeutics* **347**: 38-46
6. DuBose DR, Wolff SC, **Qi AD**, Naruszewicz I and Nicholas RA. (2013) Apical targeting of the P2Y(4) receptor is directed by hydrophobic and basic residues in the cytoplasmic tail. *Am J Physiol Cell Physiol.* **304**: C228-39
7. **Qi AD**, Houston-Cohen D, Naruszewicz I, Harden TK and Nicholas RA. (2011) Ser352 and Ser354 in the carboxyl terminus of the human P2Y₁ receptor are required for agonist-promoted phosphorylation and internalization in MDCK cells. *British Journal of Pharmacology* **162**: 1304-13
8. El-Tayeb A, **Qi AD**, Nicholas RA and Müller CE. (2011) Structural modifications of UMP, UDP, and UTP leading to subtype-selective agonists for P2Y₂, P2Y₄, and P2Y₆ receptors. *Journal of Medicinal Chemistry* **54**: 2878-90
9. Wolff SC, **Qi AD**, Harden TK and Nicholas RA. (2010) Charged residues in the C-terminus of the P2Y₁ receptor comprise a novel basolateral sorting signal. *Journal of Cell Science* **123**: 2512-20
10. El-Tayeb A, **Qi AD**, Nicholas RA and Müller CE. (2011) Synthesis of new uracil nucleotide derivatives and analogs as P2Y receptor agonists. *Purinergic Signalling* **4**: s16-17
11. Magnone M, Basile G, Bruzzese D, Guida L, Signorello MG, Chothi MP, Bruzzone S, Millo E, **Qi AD**, Nicholas RA, Kassack MU, Leoncini G and Zocchi E. (2008) Adenylyc dinucleotides produced by CD38 are negative endogenous modulators of platelet aggregation. *Journal of Biological Chemistry* **283**:24460-8
12. El-Tayeb A, **Qi AD**, Müller CE. (2006) Synthesis and structure-activity relationships of uracil nucleotide derivatives and analogues as agonists at human P2Y₂, P2Y₄, and P2Y₆ receptors. *Journal of Medicinal Chemistry* **49**:7076-7087
13. **Qi AD**, Wolff SC, Harden TK and Nicholas RA. (2005) The apical targeting signal of the P2Y₂ receptor is located in its first extracellular loop. *Journal of Biological Chemistry* **280**: 29169-29175
14. Wolff SC, **Qi AD**, Harden TK and Nicholas RA. (2005) Polarized expression of human P2Y receptors in epithelial cells from kidney, lung, and colon. *Am J Physiol Cell Physiol.* **288**:C624-632
15. **Qi AD**, Harden TK and Nicholas RA (2004) GPR80/99, proposed to be the P2Y₁₅ receptor activated by adenosine and AMP, is not a P2Y receptor. *Purinergic Signalling* **1**:67-74

16. Herold CL, **Qi AD**, Kennedy C, Harden TK and Nicholas RA. (2004) Agonist versus antagonist action of ATP at the P2Y₄ receptor is determined by the second extracellular loop. *Journal of Biological Chemistry* **279**:11456-11464
17. **Qi AD**, Zambon AC, Insel PA and Nicholas RA. (2001) An arginine/glutamine difference at the juxtaposition of transmembrane domain 6 and the third extracellular loop contributes to the markedly different nucleotide selectivities of human and canine P2Y₁₁ receptors. *Molecular Pharmacology* **60**: 1375-1382
18. **Qi AD**, Kennedy C, Harden TK, and Nicholas RA. (2001) Differential coupling of the human P2Y₁₁ receptor to phospholipase C and adenylyl cyclase. *British Journal of Pharmacology* **132**: 318-326
19. Kennedy C, **Qi AD**, Herold CL, Harden TK, and Nicholas RA. (2000) ATP, an agonist of the rat P2Y₄ receptor, is an antagonist at the human P2Y₄ receptor. *Molecular Pharmacology* **57**: 926-931
20. Kwan YW, **Qi AD**. (1997) Inhibition by extracellular ATP of L-type calcium channel currents in guinea-pig single sinoatrial nodal cells: involvement of protein kinase C. *Can J Cardiol.* **13**(12):1202-11
21. **Qi AD**, Kwan YW. (1996) Modulation by extracellular ATP of L-type calcium channels in guinea-pig single sinoatrial nodal cell. *British Journal of Pharmacology* **119**:1454-62
22. **Qi AD**, Wu Baojie, and Zhou Xubin. (1992) Effects of arachidonic acid, eicosapentaenoic acid and docosahexaenoic acid on tension of rabbit aortic strips. *Acta Pharmaceutica Sinica* **27**:246-51
23. **Qi AD**, Wu Baojie, and Zhou Xubin. (1992) Advances in research of endothelin. *Progress in Physiological Sciences* **23**:46-51
24. **Qi AD**, Wu Baojie, and Zhou Xubin. (1990) Effect of hypercholesterolemia on function of platelets. *Progress in Physiological Sciences* **23**: 310-3
25. More than 10 papers published in Chinese not included.

II. Presentations at Scientific Meetings:

1. **Aidong Qi**, Peter M. Gulleman, John T. Benjamin, Riet Van der Meer, Sara W. Jackson, Jonathan A. Kropski, Timothy Blackwell, and Lisa R. Young. Epithelial-dependent fibroblast phenotypes in Hermansky Pudlak Syndrome mice. *The Lung Epithelium in Health and Disease* (Olean, NY, July 30-August 3, 2018)
2. **A Qi**, P Gulleman, S Jackson, W Han, E Plosa, J Benjamin, B Gochuico, W Gahl, S Kook, SH Guttentag, TS Blackwell, and LR Young. Epithelial Nox4 Contributes to

Fibrotic Susceptibility in Hermansky Pudlak Syndrome Mice. *Gordon Research Conference on Lung Development, Injury, and Repair* (New London, NH, August 2017)

3. **Qi AD**, Harden TK and Nicholas RA. (2013) PDZ ligand-dependent phosphorylation of Ser336 in the C-terminal tail of the P2Y₁ receptor blocks agonist-promoted internalization in HEK293 cells. *Experimental Biology* (Boston)
4. **Qi AD**, Glast DM, Harden TK and Nicholas RA (2011) Cell type-dependent internalization of the ADP-activated P2Y₁ receptor. *Experimental Biology* (Washington DC)
5. **Qi AD**, Glast D, Naruszewicz I, Harden TK and Nicholas RA (2009) Ser³³⁶ in the C-terminal tail of the P2Y₁ receptor regulates agonist-promoted internalization. *Experimental Biology* (Anaheim, CA)
6. **Qi AD**, Houston, D, Naruszewicz I, Harden TK and Nicholas RA. (2008) Agonist-promoted internalization of the P2Y₁ receptor in Madin-Darby canine kidney cells. *Experimental Biology* (San Diego)
7. **Qi AD**, Harden TK and Nicholas RA. (2008) Evaluation of nucleotides, nucleotide-sugars, and lipid mediators as agonists of GPR17 and GPR87. *Purinergic Signalling* 4: S83.
8. **Qi AD**, Wolff SC, Harden TK and Nicholas RA. (2003) Identification of an apical targeting signal in the P2Y2 receptor. *FASEB Journal* 17: A636
9. More than 20 other abstracts are not included.