

ZHENYU LI

Current position: Assistant Professor

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EDUCATION

INSTITUTE	DEGREE	YEARS	FIELD OF STUDY
Nantong Medical College	M.D. (eqv.)	1984-1989	Medicine
Nantong Medical College	Master	1991-1994	Hematology
Soochow University	PhD	1994-1997	Hematology
University of Illinois at Chicago	Post-doc	1999-2003	Pharmacology

POSITION AND HONORS

Positions and Employment

1989-1991	Medical Residency, Internal Medicine, Zhenjiang the Second Hospital
1997-1999	Instructor in Hematology, Zhenjiang the Second Hospital
1999-2003	Postdoctoral Research Fellow in Pharmacology, University of Illinois at Chicago
2003-2008	Research Assistant Professor in Pharmacology, University of Illinois at Chicago
2008-	Assistant Professor, Department of Medicine, University of Kentucky

Membership

2001	Member, American Heart Association
2004	Member, Society of Cell Biology
2007	Member, American Society of Hematology

Honors

1996	Upjohn Suzhou Pharmaceutical Co. Upjohn Prize
2000	ASH (The American Society of Hematology) Travel Award
2001	ASH (The American Society of Hematology) Travel Award
2001~2003	American Heart Association Midwest Affiliate Postdoctoral Fellowship Award

SELECTED PEER-REVIEWED PUBLICATIONS

1. **Li Z**, Yang J, Luo D, Chen H, Ding R. The effects of plasma from aplastic anemia patients on proliferation and differentiation of bone marrow megakaryocyte progenitors in vitro. **Chinese J of Hematol**, 1995, 16: 485-487.

2. **Li Z**, Fu J, Wan H, Wang Y, Zhang W, Gu J, Ruan C. A novel missense mutation of hemophilia A detected by denaturing gradient gel electrophoresis. **Chinese J of Hematol**, 1996, 17:466-468.

3. Ruan C, **Li Z**, Wang Y, Fu J, Wan H, Zhang W, Gu J. FVIII gene mutations of hemophilia A of Chinese origin. **Chin J Med Genet.** 1997, 14: 294-296.
4. Wang Y, **Li Z**, Wan H, Chen D, and Ruan C. Four novel point mutations of factor IX gene detected by denaturing gradient gel electrophoresis. **Chinese J of Hematol**, 1998, 19:125-128.
5. Wang Y, **Li Z**, Wang Y, Wan H, Gu J, Tai H, Ruan C. Analysis of ATCT variable number tandem repeat of vWF gene in Chinese Han population. **Journal of Experimental Hematology**, 1998, 293-295.
6. **Li Z**, Wang Y, Tai H, Wan H, Song J, Wang Y, and Ruan C. Sma I, Hha I, Msp I and Rsa I restriction fragment length polymorphisms in the von Willebrand factor gene of Chinese population. **Chinese Medical J**, 1998, 111: 686-689.
7. **Li Z**, Wang Y, Wan H, Lavergne JM, Meyer D, Ruan C. Detection of gene mutation and genetic analysis of a patient with type 3 von Willebrand disease. **Chinese J of Hematol**, 1998, 19:122-124.
8. Wang Y, **Li Z**, Gu J, and Ruan C. von Willebrand disease in China. **Chinese Medical J**, 2000, 113: 677-680. (Review article)
9. Bodnar RJ, Gu M, **Li Z**, Englund GD, Du X. The cytoplasmic domain of the platelet Glycoprotein Ib alpha is phosphorylated at serine 609. **J Biol Chem.** 1999, 274(47): 33474-33479.
10. Englund GD, Bodnar RJ, **Li Z**, Ruggeri ZM, and Du X. Regulation of von Willebrand Factor Binding to the Platelet Glycoprotein Ib-IX by a Membrane Skeleton-dependent Inside-out Signal. **J. Biol. Chem.**, 2001 276: 16952-16959.
11. **Li Z**, Xi X, and Du X. A Mitogen-activated Protein Kinase-dependent Signaling Pathway in the Activation of Platelet Integrin $\alpha_{IIb}\beta_3$. **J. Biol. Chem.**, 2001, 276: 42226-42232.
12. Bodnar RJ, Xi X, **Li Z**, Berndt MC, and Du X. Regulation of Glycoprotein Ib-IX-von Willebrand Factor Interaction by cAMP-dependent Protein Kinase-mediated Phosphorylation at Ser 166 of Glycoprotein Ib β . **J. Biol. Chem.**, 2002, 277: 47080-47087.
13. Xi X, Bodnar RJ, **Li Z**, Lam S, and Du X. A critical role for the NITY sequence of the integrin β_3 cytoplasmic domain in inside-out signaling and its regulation by calpain. **J. Cell. Biol.**, 2003, 162: 329-339.
14. **Li Z**, Ajdic J, Eigenthaler M, and Du X. A predominant role for cAMP-dependent protein kinase in the cGMP-induced platelet inhibition and phosphorylation of vasodilator-stimulated phosphoprotein in human platelets. **Blood**, 2003, 101: 4423-4429.

15. **Li Z**, Xi X, Gu, M, Feil R, Ye RD, Eigenthaler M, Hofmann F, and Du X. A stimulatory role for cGMP-dependent protein kinase in platelet activation. **Cell**, **2003**, **112**: 77-86.
16. **Li Z**, Zhang, G, Le Breton G, Gao X, Malik AB, and Du X. Two waves of platelet secretion induced by thromboxane A₂ receptor, and a critical role for phosphoinositide 3-kinases. **J. Biol. Chem.** **2003**, **278**: 30725
17. **Li Z**, Zhang G, Marjanovic JA, Ruan C, and Du X. A platelet secretion pathway mediated by cGMP-dependent protein kinase. **J. Biol. Chem.**, **2004**, **279**: 42469-42475.
18. Du, X, Marjaanovic JA, **Li Z**. On the roles of cGMP and glycoprotein Ib in platelet activation. **Blood**, **2004**, **103**, 4371-4372.
19. Marjanovic JA, **Li Z**, Stojanovic A, and Du X. Stimulatory roles of nitric oxide synthase 3 and guanylyl cyclase in platelet activation. **J. Biol. Chem.**, **2005**, **280**: 37430-37438.
20. **Li Z**, Zhang G, Feil R, Han J, and Du X. Sequential activation of p38 and ERK pathways by cGMP-dependent protein kinase leading to activation of the platelet integrin $\alpha_{IIb}\beta_3$. **Blood**, **2006**. **107**: 965-972.
21. Yin H, Liu J, **Li Z**, Berndt MC, Lowell CA, Du X. Src family tyrosine kinase Lyn mediates VWF/GPIb-IX-induced platelet activation via the cGMP signaling pathway. **Blood**. **2008 Aug 15**;112(4):1139-46.
22. Welch EJ, Naikawadi RP, **Li Z**, Lin P, Ishii S, Shimizu T, Tiruppathi C, Du X, Subbaiah PV, Ye RD. Opposing Effects of Platelet-activating Factor and Lyso-Platelet-activating Factor on Neutrophil and Platelet Activation. **Mol Pharmacol**. **2008 Oct 17**. *In Press*.
23. Flevaris P, **Li Z**, Zhang G, Zheng Y, Liu J, Du X. Two distinct roles of mitogen-activated protein kinases in platelets and a novel Rac1-MAPK-dependent integrin outside-in retractile signaling pathway. **Blood**. **2008 Oct 28**. *In press*. (Co- First author).
24. **Li Z**, Zhang G, Yin H, Schlossmann J, Antl M, Schiemann M, Fraterman S, Wilm M, Hofmann F, and Du X. An important stimulatory role for the cgmp-dependent protein kinase ii in platelet activation, in vivo thrombosis and hemostasis. **J. Biol. Chem.**, *Under Revision*.
25. Zhang G, Welch E, Hofmann F, Du X, and **Li Z**. LPS promotes platelet activation via the TLR4/MyD88 and cGMP-dependent protein kinase pathway. **J Immunol**. *Under Revision*.
26. **Li Z**, Zhang G, Liu G, Stojanovic A, Ruan C, Lowell C, and Du X. An important role of Src family kinases in platelet secretion. *Submitted. (Correspondent author)*

RESEARCH SUPPORT

1. Scientist Development Grant 0430095N Li (PI) 01/01/04-12/31/07

AHA

Title: The Roles of cGMP/PKG Pathway in Thromboxane A₂-Induced Platelet Activation.

The major goals of this project are to investigate the biphasic roles of cGMP/PKG pathway in thromboxane A₂-induced platelet secretion and aggregation.

Role: PI.

2. Grant-in-aid 0855698G Li (PI) 07/01/2008-06/30/2010

AHA, Midwest Affiliate

Title: The role of platelets in sepsis.

Role: PI