

CURRICULUM VITAE

Zeyi Zheng, Ph.D.

E-mail: zeyiz@bcm.edu

EDUCATION

- 2002.01-2006.08 National University of Singapore, Singapore
Ph.D. in Biomedical Sciences
- 1997.09-2001.06 Zhejiang University, Hangzhou, Zhejiang, P.R. China
B.Sc. in Biological Sciences and Technology

PROFESSIONAL EXPERIENCE

2007.08 – present Postdoctoral Associate, Lester and Sue Smith Breast Center, Baylor College of Medicine, Houston, TX (Mentor: Dr. Eric C. Chang)

- conduct research to investigate the function of Ras onco-proteins in triple-negative breast cancers.
- conduct research to screen drugs to inhibit the activity of onco-protein Ras, which could benefit patients with melanoma, colon, pancreatic or breast cancers.
- conduct research to screen Ras-interacting molecules, and found out two proteins, CHMP6 and VPS4A, that can control Ras activity and localization in the cell.

2006.02 - 2007.07 Research Fellow and Project Officer, School of Biological Sciences, Nanyang Technological University, Singapore

- conducted research to determine the selective functions of estrogen analogs on progesterone receptors in human breast cancers

2002.01-2006.08 Graduate Student, Department of Anatomy, Yong Loo Lin School of Medicine, National University of Singapore, Singapore

- conducted research to investigate the crosstalk between estrogen receptor and progesterone receptor in human breast cancers, and discovered a novel antiestrogenic mechanism of progesterone receptor.

HONORS AND AWARDS

- 2010 Oral Presentation Winner, the 8th Annual Dan L. Duncan Cancer Center Symposium
- 2010 Abstract Finalist, the 8th Annual Dan L. Duncan Cancer Center Symposium
- 2010 AACR-Merck Scholar-in-Training Award

2007-2010	Postdoctoral Fellowship, Susan G. Komen for the Cure Foundation (PDF0707860)
2004	National University of Singapore Travel Award
2002-2006	Ph.D. Student Scholarship, National University of Singapore

PROFESSIONAL MEMBERSHIP

2003-present	Associate Member, American Association for Cancer Research (AACR)
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PUBLICATIONS

1. **Zheng ZY**, Edwards DG, Kittrell FS, Cheng F, Perou CM, Creighton CJ, Gao X, Zhang X, Li F, Cui K, Zwaka TP, Wong ST, Medina D, and Chang EC. Selective N-Ras Signaling in Human Basal-like Breast Cancer Cells. (manuscript in preparation)
2. **Zheng ZY**, Liao YH, Li F, Zhu Y, Cui K, Wong ST, and Chang EC. Identification of Ras-specific inhibitors. (manuscript in preparation)
3. Young E, **Zheng ZY**, Wilkins AD, Jeong HT, Lichtarge O, and Chang EC. Evolutionarily conserved regulation of Ras localization by palmitoyltransferases between humans and fission yeast. (manuscript submitted)
4. **Zheng ZY** and Chang EC. Detecting protein-protein interaction by biomolecular fluorescence complementation (BiFC). *Methods in Enzymology*. 2013 (invited review, in press)
5. Chen X, Zhu Y, Li F, **Zheng Z**, Chang E, Ma J, and Wong STC. A Novel Geodesic Distance Based Clustering Approach to Delineating Boundaries of Touching Cells. *Advances in Neural Networks*. 2013, 315-22.
6. **Zheng ZY**, Xu L, Bar-Sagi D, and Chang EC. Escorting Ras. *Small GTPases*. 2012. 3(4):236-9. (invited review)
7. **Zheng ZY**, Cheng CM, Fu XR, Chen LY, Xu L, Terrillon S, Wong ST, Bar-Sagi D, Songyang Z, and Chang EC. CHMP6 and VPS4A mediate the recycling of Ras to the plasma membrane to promote growth factor signaling. *Oncogene*. 2012. 31(43):4630-8.
8. **Zheng ZY** and Lin VC. Anti-estrogenic effect of unliganded progesterone receptor is estrogen-selective in breast cancer cells MCF-7. *Cancer Lett*. 2008. 268(2):202-11.
9. **Zheng ZY**, Zheng SM, Bay BH, Aw SE, and C-L Lin V. Anti-estrogenic mechanism of unliganded progesterone receptor isoform B in breast cancer cells. *Breast Cancer Res Treat*. 2008. 110(1):111-25.

10. **Zheng ZY**, Bay BH, Aw SE, and Lin VC. A novel antiestrogenic mechanism in progesterone receptor-transfected breast cancer cells. *J. Biol. Chem.* 2005. 280(17):17480-7.

MEETING PRESENTATIONS

1. **Zheng ZY**, Liao LH, Edwards DG, Kittrell FS, Cheng F, Gao X, Perou CM, Creighton CJ, Zhang X, Li F, Cui K, Zwaka TP, Wong ST, Medina D, and Chang EC. N-Ras controls a key growth pathway in Basal-like Breast Cancer that can be targeted for therapy. The 10th Annual Dan L. Duncan Cancer Center Symposium, Houston, TX. 2012.
2. **Zheng ZY**, Edwards DG, Kittrell FS, Cheng F, Perou CM, Creighton CJ, Zhang X, Li F, Cui K, Zwaka TP, Wong ST, Medina D, and Chang EC. N-Ras controls a key growth pathway in Basal-like Breast Cancer that can be targeted for therapy. The 8th Annual Breast Cancer Research and Education Program, Montgomery, TX. Sep 7-8, 2012
3. Young E, **Zheng ZY**, Wilkins A, Jeong H, Lictarge O, and Chang EC. Evolutionarily conserved regulation of Ras localization by palmitoyltransferases between humans and fission yeast. Molecular and Cellular Biology Graduate Student Symposium of Baylor College of Medicine, Houston, TX. May 2012
4. Young E, Jeong H, **Zheng ZY**, Wilkins A, Lictarge O, and Chang EC. Evolutionarily conserved localization of Ras by the Erf2 palmitoyltransferase. Graduate School of Biomedical Sciences Symposium of Baylor College of Medicine, Houston, TX. October 2011.
5. **Zheng ZY**, Perou CM, Creighton CJ, Li F, Cui K, Zwaka TP, Wong ST, Medina D, and Chang EC. Selective N-Ras Signaling in Human Basal-like Breast Cancer Cells. The 7th Annual Breast Cancer Research and Education Program, Montgomery, TX. Sep 16-17, 2011.
6. **Zheng ZY**, Cheng CM, Fu XR, Songyang Z, and Chang EC. Regulation of H-Ras subcellular localization by several VPS proteins. The 8th Annual Dan L. Duncan Cancer Center Symposium, Houston, TX. Nov 11, 2010.
7. **Zheng ZY** and Chang EC. Selective Ras Signaling in Human Basal-like Breast Cancer Cells. The 6th Annual Breast Cancer Research and Education Program, Montgomery, TX. Sep 18-19, 2010.
8. **Zheng ZY**, Cheng CM, Fu XR, Songyang Z, and Chang EC. Identification of Ras compartment-specific interacting proteins. The 101st Annual Meeting of American Association for Cancer Research, Washington, DC. Apr 17-21, 2010.
9. **Zheng ZY**, Cheng CM, Fu XR, Songyang Z, and Chang EC. Selective Ras Signaling in Cancer. The 5th Annual Breast Cancer Research and Education Program, Houston, TX. Sep 25-26, 2009.

10. **Zheng ZY**, Cheng CM, Fu XR, Songyang Z, and Chang EC. Identification of Ras compartment-specific interacting proteins. The 4th Annual Breast Cancer Trainee Retreat, Cleveland, TX. Nov 13-15, 2008.
11. **Zheng ZY**, Cheng CM, Fu XR, Songyang Z, and Chang EC. Identification of Ras compartment-specific effectors by biomolecular fluorescence complementation. The 3rd Annual Breast Cancer Trainee Retreat, Cleveland, TX. Nov 8-10, 2007.
12. **Zheng ZY**, Bay BH, Aw SE, and Lin VC. Transfection of Progesterone Receptor (PR) Diminishes the Effects of Estrogen in MCF-7 Cells. The 95th Annual Meeting of American Association for Cancer Research, Orlando, FL, Mar 27-31, 2004.
13. **Zheng ZY**, Bay BH, Aw SE, and Lin VC. The Differential Effect of Progesterone on Cell Proliferation and Metallothionein (MT)-2a Expression in the MCF-7 Cells Transfected with Progesterone Receptor (PR) Complementary DNA. The 94th Annual Meeting of American Association for Cancer Research, Washington, DC. Jul 11-14, 2003.