

Curriculum Vitae

Ren Xu, Ph.D

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Education

Shanghai Institute of Biochemistry and Cell Biology, Chinese Academy of Sciences, Shanghai, China, 9/1997---7/2002

Ph.D in Biochemistry and Molecular Biology.

Nanjing University, Nanjing, China, 9/1993---7/1997. Graduate with honor.

B.S. in Biology.

Career

Lawrence Berkeley National laboratory, Berkeley, California, 9/2008 --- present
Project Scientist in Life Science Division

Lawrence Berkeley National laboratory, Berkeley, California, 9/2002 --- 9/2008
Post doctoral training in Life Science Division,

Awards and Fellowships

DOD, Breast Cancer Research Program Postdoc Fellowship. 2002, DAMD17-02-1-0441
Honor graduate of Nanjing University. 1997.
People's Scholarship. 1997

Publications

Articles

1. **Xu R***(co-correspondence author), Nelson CM, Muschler JL, Veiseh M, Vonderhaar BK and Bissell MJ (2009). Sustained activation of STAT5 is essential for chromatin remodeling and maintenance of mammary-specific function. *J Cell Biol. Jan 12;184(1):57-66. (Highlighted by the editor)*

Selected commentary on this manuscript. Faculty of 1000 evaluations:

<http://www.fl000biology.com/article/id/1145077>; Sedwick C, It takes two to party with chromatin. *J Cell Biol*, 184 (1); Commentary on NCI website: <http://home.ccr.cancer.gov/inthejournals/vonehaar.asp>.

2. **Xu R*** (co-correspondence author), Boudreau A, Bissell MJ (2009). Tissue architecture and function: Dynamic reciprocity via extra- and intra-cellular matrices (invited review). *Cancer Metastasis Rev.* 2009 Jun;28(1-2):167-76.

3. Alcaraz J, **Xu R**, Mori H, Nelson CM, Mroue R, Spencer VA, Brownfield D, Radisky DC, Bustamante C and Bissell MJ (2008). Laminin and biomimetic extracellular elasticity enhance functional differentiation in mammary epithelia. *EMBO J.* 2008. Oct 9.

Selected commentary on this manuscript. Faculty of 1000 evaluations:

<http://www.fl000biology.com/article/id/1124575/evaluation>.

4. Faddy HE, Smart CE, **Xu R**, et al; Localization of plasma membrane and secretory calcium pumps in the mammary gland. *Biochem Biophys Res Commun.* 2008 Mar 10.

5. **Xu R**, Virginia A. Spencer., Mina J. Bissell., Extracellular matrix-regulated gene expression requires cooperation of SWI/SNF and transcription factors. *J Biol Chem.* 2007 May 18;282(20):14992-9.

6. Le Beyec L, **Xu R*** (co-first author), Sun-Young Lee, Celeste M. Nelson, Aylin Rizki, Jordi Alcaraz and Mina J. Bissell. Cell shape regulates global histone acetylation in human mammary epithelial cells. *Exp Cell Res.* 2007 Aug 15;313(14):3066-75. (*Highlighted by the editor*)

7. Ren, MS., Lu, CZ., Qiao, J., Ren. HM., **Xu, R.**, Gan, RB. 2004, *Chin Med Sci J.* 19 (3): 221-4

8. Zhou, QW., Xie, JL., Xin, L., **Xu, R.**, Ye, Q., Li, ZP., Gan, RB. 2003, *Acta Biochemica et Biophysica Sinica.* 35(2):138-42.

9. **Xu R**, Zhong-Yin, Yao., Li, Xin., Qian, Zhang., Tsai-Ping, Li and Ren-Bao, Gan., *Biochem. Biophys. Res. Commun.* **289**, 264-268.

10. **Xu R**, Peng, Du., Jing-Jiang, Fan., Qian, Zhang., Tsai-Ping, Li and Ren-Bao, Gan. *Protein. Expression. Purif.* 2002, 24(3), 453-9.

11. **Xu R**, Li, Xin., Yi, Fan., Hai-Rong, Meng., Tsai-Ping, Li and Ren-Bao, Gan. *Acta Biochemica et Biophysica Sinica.* 2002, 34(2), 138-142.

12. **Xu R.**, Li, Xin., Jing-Mei, Zhang., Tsai-Ping, Li and Ren-Bao, Gan. 2002, *Acta Biochemica et Biophysica Sinica.* 34(5), 571-5.

13. Fan Y., Dazheng Wu., Yanqing Gong., **Xu R.**, Zhibi Hu. *Biochem Biophys Res Commun* 2002, 293(3):979-85.

14. Li, Xin., Li, Zhang., **Xu R.**, Qian, Zhang., Qin, Ye., Tsai-Ping, Li., Ren-Bao, Gan. 2001, *Acta Biochemica et Biophysica Sinica.* **33**, 291-295.

15. Li, Xin., **Xu R.**, Qian, Zhang., Tsai-Ping, Li and Ren-Bao, Gan. 2000, *Biochem. Biophys. Res. Commun.* **277**, 186-190.

16. **Xu R.**, Li, Xin., Ren-Bao, Gan. Two novel anti-tumor molecules (review). 1999, *Chemistry of life.* **19(1)**, 21-25.

Book chapters:

1. Virginia A. Spencer., **Xu R**, Mina J. Bissell. Extracellular Matrix, Nuclear and Chromatin Structure and Gene Expression in Normal Tissues and Malignant Tumors: A Work in Progress

(Review). *Advances in Cancer research*, 2007;97:275-94.

2. Xu R, Gan RB., Restin, A Potent Angiogenesis Inhibitor Derived from Type XV Collagen. *Trends in Angiogenesis Research* (Chapter V) NOVA publisher 2005.

Patent

1. Application number: 01112962.X (P.R. China); Application date: May 23rd, 2001
Recombinant Human Vastatin with inhibitory activity to endothelial cell proliferation
2. Application number: 10/267,137 (USA); Publication number: US 2003/0148950 A1.
Kringle domain 1 of human hepatocyte growth factor and uses therefor

Presentations

Invited Talks

- 1, Asilomar Chromatin and Chromosomes Conference 2005; Title: SWI/SNF cooperates with Stat5 and C/EBP β to regulate functional differentiation in MECs.
- 2, The American Society for Cell Biology 47th Annual Meeting 2007; Title: A Novel Link Between Exposure of Prolactin Receptor, Sustained Activation of STAT5, and Histone Acetylation in Regulation of Differentiated Function in Mammary Epithelial Cells in Three Dimensional Cultures.
- 3, The Endocrine Society's 90th Annual Meeting, 2008; Title: ECM Signaling: Sustained STAT5 Activation, Histone Acetylation & Milk Production.
4. Invited Seminar, Shanghai Institute of Biochemistry and Cell Biology, 2009; Title: ECM Integrates Tissue Architecture and Function in Three Dimensional Culture Models.

Posters

- 1, ASCB 2003 Annual Conference, Title: SAHA treatment phenotypically reverts the malignant HMT3522 T4-2 human breast cell line in three dimensional cultures. **Xu R**, Myers C, Bissell MJ.
- 2, AACR chromatin, chromosomes, and cancer epigenetics meeting 2004, Title: From extracellular signaling to chromatin remodeling: how do extracellular matrix and prolactin regulate β -casein transcription. **Xu R**, Bissell MJ.
- 3, Xu R, Bissell MJ., ASCB 2005 Annual Conference, Title: SWI/SNF complex and histone acetylation cooperate with Stat5 and C/EBP β to regulate β -casein transcription. **Xu R**, Bissell MJ.
- 4, Era of Hope 2005 - Department of Defense Breast Cancer Research Program Meeting, Title: Chromatin Remodeling Cooperates with Transcription Factors to Regulate Functional Differentiation of Mammary Epithelial Cells. **Xu R**, Bissell MJ.
- 5, ASCB 2006 Annual Conference, Title: Cell rounding induced global histone deacetylation in mammary epithelial cells. **Xu R**, Bissell MJ.
- 6, 2007 FASEB Summer Research Conference, Title: Cell shape regulates global histone acetylation in human mammary epithelial cells. **Xu R**, Spencer V, Bissell MJ.
- 7, 2008 Cytoskeleton Signaling in Cancer, An AACR Special Conference in Cancer Research. Dynamic Reciprocity: ECM Signaling, the Cytoskeleton, and Chromatin organization. Bissell MJ, **Xu R**.

8, ASCB 2008 Annual Conference, Title: Laminin-dependent PI3K Signaling Regulates Sustained Activation of STAT5. **Xu R**, Levy D, Bissell MJ.

9, ASCB 2008 Annual Conference, Title: Integration of Form and Function in Normal Mammary Gland and Breast Cancer Includes Glucose Transport and Its Metabolic Patterns. Y. Onodera, **Xu R**, M. Bissell

10, ASCB 2008 Annual Conference, Title: Nuclear Actin Is a Key and Early Player for Laminin-induced Transcriptional Repression and Growth Inhibition in the Mammary Gland. V. Spencer, S. Costes, J. Inman, J. Chen, **Xu R** et al.

11, Gordon Research Conference 2009, Mammary gland biology, Title: ECM sustains STAT5 activation required for functional differentiation of mammary epithelial cells. **Xu R**, Nelson CM, Muschler JL, Veiseh M, Vonderhaar BK and Bissell MJ.

Public service

Journal reviewer:

Cancer research

Clinical Cancer Research

Molecular Cancer Research.