

**Simposio Internacional: Biointeractómica**

**International Symposium: Biointeractomics**

Sevilla, 30 y 31 de octubre de 2012

Sevilla, October 30-31, 2012

## **Xiyan Li**

Research Associate  
Department of Genetics, Stanford University  
Stanford CA, 94305 US

### **EDUCATION/TRAINING**

*University of Maryland, College Park, MD, 2000-2006*

Ph.D. in Cell Biology & Molecular Genetics, 2006, Area of specialization: Cell Biology & Molecular Genetics

*China Agricultural University, Beijing, CHINA, 1997-2000*

M.S. in Pomology, 2000, Area of specialization: Biochemistry

*Beijing University, Beijing, CHINA, 1992-1997*

B.S. in Biochemistry & Molecular Biology, 1997

### **RESEARCH INTERESTS**

- Chemical regulators that modulate protein functions in living cells
- Integrated protein interaction networks for systems biology
- Metabolite profiling for exploratory and confirmatory metabolomics
- Metabolomic biomarkers for cancer and aging
- Multiplex profiling of blood components for health assessment

### **POSITIONS**

2000-2002 Teaching Assistant in the Department of Cell Biology & Molecular Genetics, University of Maryland, College Park, MD, for Introductory Botany, and Plant Physiology

2003-2006 Research Assistant in Dr. Heven Sze's laboratory, Department of Cell Biology & Molecular Genetics, University of Maryland, College Park, MD

2006-2009 Postdoctoral associate with Dr. Michael Snyder, Department of Molecular, Cellular, and Developmental Biology, Yale University, New Haven, CT

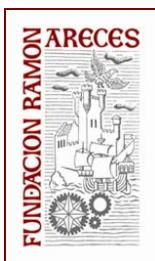
2009-2012 Postdoctoral scholar with Dr. Michael Snyder, Department of Genetics, Stanford University, Stanford, CA

2012-present Research associate, Department of Genetics, Stanford University, Stanford, CA

### **SELECTED PUBLICATIONS & PRESENTATIONS**

*Peer-reviewed original research articles*

Li X, Gianoulis TA, Yip KY, Gerstein M, Snyder M. Extensive in vivo metabolite-protein interactions revealed by large-scale systematic analyses. **Cell**. 2010; 143(4): 639-50. PMID: 3005334. [Research highlights in Nature Chem. Biol. 7:7-8](#); [Sci. Signal. 4:eg1](#); [Nature Methods, 8:117-121](#)



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Zhao C, Yasumura D, Li X, Matthes M, Lloyd M, Nielsen G, Ahern K, Snyder M, Bok D, Dunaief JL, LaVail MM, Vollrath D. mTOR-mediated dedifferentiation of the retinal pigment epithelium initiates photoreceptor degeneration in mice. **J Clin Invest.** 2011;121(1):369-83. PMID: 3007156.

Li X, Snyder M. Analyzing in vivo metabolite-protein interactions by large-scale systematic analyses. **Current Protocols in Chemical Biology.** 2011; 3:181-196.

#### *Review articles*

Li X, Snyder M. Metabolites as global regulators: a new view of protein regulation. **BioEssays.** 2011; 33(7):485-9. PMID: 21495048. [Featured the cover image.](#)

Yang, GX, Li X, Snyder M. Investigating metabolite-protein interactions: an overview of available techniques (invited). **Methods.** 2012; Accepted

#### *Meeting abstract*

Li X, Snyder M. Global Analysis of Small Molecule Interactions with Proteins. **Molecular & Cellular Proteomics.** 2009:S14-S14.

#### *Posters and Presentations*

Li X, Gianoulis, TA, Yip, KY, Gerstein, M, Snyder, M. 2010. "Extensive In vivo Metabolite-Protein Interactions Revealed by Large-Scale Systematic Analyses" **Human Proteome Annual Congress (HUPO) 2010, September 19-23, Sydney (Australia).**

Li X, Snyder, M. 2009. "Global Analysis of Small Molecule-Protein Interactions" **HUPO 2009, September 26-30. Toronto (Canada).**

Li X, Snyder M. 2009. "Global Analysis of Small Molecule Interactions with Proteins". **Ninth International Symposium on Mass Spectrometry in the Health & Life Sciences: Molecular & Cellular Proteomics.** August 23–27. San Francisco, CA (US).

#### *Invited/Selected Talks*

"Systematic investigation of metabolite-protein interactions". Metabolomics and Cancer workshop. Cancer Prevention Institute of California/Stanford Cancer Institute. May 16, 2012. Stanford, CA

"Systematic investigation of metabolite-protein interactions". 1<sup>st</sup> International Conference and Exhibition on Metabolomics & Systems Biology. February 21, 2012. San Francisco, US.

"Extensive Metabolite-Protein Interactions Revealed by Large-Scale Analyses". Current Issues in Genetics, seminar series at the Department of Genetics, Stanford University, 2009.

#### **PEER REVIEWER**

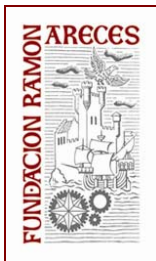
*Molecular & Cellular Proteomics*

*Molecules*

*Cell Research*

*BMC Systems Biology*

*Nature Biotechnology*



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### **OTHER PROFESSIONAL EXPERIENCE**

2003-2006	Member of the American Society of Plant Biologists
2009-present	CACO Pharmaceutical & BioScience Society (formerly CACO)
2010	Process Expert ( <i>Ad hoc</i> ), Life Technologies, Carlsbad, CA
2011-present	Member of the American Society for Mass Spectrometry
2012	Sponsored AAAS member