

Jia Shi
Dept. of Integrative Physiology
University of Colorado
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PROFESSIONAL EXPERIENCE AND ACCOMPLISHMENTS:

- 2014 - Present** **University of Colorado at Boulder**
Instructor
Department of Integrative Physiology
Human Physiology Lab Coordinator
Course taught: Human Physiology Lab, Pathophysiology,
Endocrinology and Immunology
- 2011 - 2014** **University of Colorado at Boulder**
Academic Advisor and Lecturer
Department of Integrative Physiology
Advised ~500 students/year
Courses taught: Endocrinology, Pathophysiology (proposed and designed the
course), and honor's Molecules, Plagues and People.
- 2006 - 2011** **University of Colorado at Boulder**
Research Associate - Science Teaching Fellow
Department of Molecular, Cellular, and Developmental Biology and Science
Education Initiative
Developed learning goals, assessment and interactive learning activities for Cell
Biology lab course and Introduction to Molecular and Cellular Biology lecture
course. Created and implemented a new co-seminar course to accompany the
introductory biology course.
- 2003 - 2006** **WH BioSystems, Inc. San Mateo, CA**
Chief Scientific Officer
Research and development of DNA hybridization equipment
- 2003 -2005** **Skyline College, San Bruno, CA**
De Anza College, Cupertino, CA
Cañada College, Redwood City, CA
College of San Mateo, San Mateo, CA
Adjunct Biology Instructor
Courses taught: General Biology, Human Biology, Biology of Women, Health
Science, Human Anatomy, and Microbiology.
- 2002** **Kaim Associates Inc. Weston, CT**
Consultant

- Identified and indexed biological literature to build a monoclonal antibody database
- 1999 - 2001** **Ingenuity Systems, Inc. Alviso, CA**
Content Scientist
 Prepared materials and agendas for meetings and recorded minutes
 Developed a process for document control
 Trained and managed over 30 scientists
 Interfaced with engineering department to build a knowledge acquisition tool to extract biomedical information from articles
- 1993 - 1999** **University of California at San Francisco, San Francisco, CA**
Research Immunologist (1997-1999)
Post-doctoral Fellow (1993-1997)
- 1983 - 1985** **School of Medicine, Guangxi, China.**
Instructor and fellow in the department of Pathophysiology

HORNORS AND AWARDS

- 2005 - 2007** Received a Small Business Innovative Research (SBIR I) grant from the National Institutes of Health
- 1997 - 1999** Awarded a \$250,000 research grant from the American Arthritis Foundation
- 2017 – Present** Awarded a \$3000 as the department faculty fellow from ASSETT

OTHER PROFESSIONAL EXPERIENCE:

- 1990 – 2009** Reviewer for: applications for using human subjects; grant proposals involving human subjects and scientific journal articles
- 2003 – 2006** Reviewer for: Elaine Marieb's *Human Anatomy and Physiology Lab Manual* (Eighth Edition, 2004 by Benjamin Cummings) for the editors. Sylvia Mader's *Human Biology* (10th edition), and Black's *Microbiology: Principle and Explorations*. I have also contributed to a new companion website for Elaine Marieb's *Human Anatomy and Physiology Laboratory Manuals*.
- 2002 – 2004** A member of the "Expanding Your Horizon" program planning committee. This program promotes education as a means of expanding young women's options. Skyline College, San Bruno, CA.
- 2017 – Present** Reviewer for the *Journal of Microbiology and Biology Education*

EDUCATION:

- M.D., Guangxi Medical University, China, 1983.**
M.A. in Biology, Brandies University, MA, 1988.
Ph.D. in Pathology, Boston University School of Medicine, Boston, MA, 1993.

PUBLICATIONS:

Shi, J., H. Chun, J. K. Knight, N. A. Guild, and J. M. Martin. 2017. Using pre-assessment and in-class questions to change student understanding of molecular movements. *J. of Microbiol. and Biol. Educ.* 18 (1).

Shi, J., J. M. Power, and M. W. Klymkowsky. 2011. Revealing Student Thinking about Experimental Design and the Roles of Control Experiments. *IJ- SoTL.* 5(2): 1-16.

Shi, J., W. B. Wood, J. M. Martin, N.A. Guild, Q. Vicens, and J. K. Knight. 2010. A Diagnostic Assessment for Introductory Molecular and Cell Biology. *CBE- Life Sciences Education.* 9: 453-461.

Wieman C, Perkins, K, Gilbert S, Arthurs L, Bair A, Stempien J, Benay F, Kennedy S, Semsar K, Knight J, **Shi J,** Smith M, Kelly T, Taylor J, Yurk H, Birol G, Langdon L, Pentecost T, Stewart J, Gilley B, Jones F, Kennedy B, Chasteen S, Simon B. 2008. Clicker Resource Guide: An Instructor's Guide to Effective use of Personal Response Systems (Clickers) in Teaching. *Science Education Initiative, University of British Columbia and University of Colorado at Boulder.*

Sadra, A., T. Cinek, J.L. Arellano, **J. Shi,** K.E. Truitt, and J.B. Imboden. 1999. Identification of tyrosine phosphorylation sites in CD28 cytoplasmic domain and their role in the costimulation of Jurkat cells. *J. of Immunol.* 162:1966-1973.

Shi, J. and J. B. Imboden. 1996. Wortmannin, a PI-3 kinase inhibitor, blocks antigen-mediated, but not CD3 monoclonal antibody-induced, activation of murine CD4⁺ T cells. *J. of Immunol.* 158: 4688-4695.

Truitt, E. K., **J. Shi,** S. Gibson, L. G. Segal, G. B. Mills, and J. B. Imboden. 1995. CD28 delivers costimulatory signals independently of its association with phosphatidylinositol 3-kinase. *J. of Immunol.* 155: 4702- 4710.

Miller, R.A., S. Li, H. Patel, **J. Shi,** and J.M. Witkowski. 1994. Alterations in T cell heterogeneity and responsiveness in aging mice. *Aging, Immunity and Infection.* 82-94. D.C. Powers, J.E. Morley, and R.M. Coe. Editors, New York: Springer Pub.Co.

Shi, J., and R. Miller. 1993. Differential tyrosine-specific protein phosphorylation in mouse T lymphocyte subsets: effect of age. *J. of Immunol.* 151:730-739.

Shi, J., and R. Miller. 1992. Tyrosine-specific protein phosphorylation in response to anti-CD3 is diminished in old mice. *J. of Geront.* 47: B147-153.

Shi, J., and R. Miller. 1992. Tyrosine phosphorylation and receptor-triggered T cell activation. *J. of Cellular Biochemistry* 16B.