Curriculum Vitae

PERSONAL DATA

Name: Mu, Tingwei, Ph.D.
Address: Case Western Reserve University, SOM, Department of Physiology and Biophysics, E513 (office) or E534E/F (lab), 10900 Euclid Avenue, Cleveland, Ohio 44106
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EDUCATION AND PROFESSIONAL EXPERIENCE

CASE WESTERN RESERVE UNIVERSITY Nov 2010 to present
Assistant Professor, Departments of Physiology and Biophysics
Research: Understanding ion channel folding and function in the cell

THE SCRIPPS RESEARCH INSTITUTE Sep 2005 to Nov 2010
Postdoctoral Research Associate, Departments of Chemistry and Molecular and Experimental Medicine, and the Skaggs Institute for Chemical Biology
Research: Readapting the protein homeostasis network to ameliorate protein-misfolding diseases
Advisor: Jeffery W. Kelly

CALIFORNIA INSTITUTE OF TECHNOLOGY Sep 2000 - Aug 2005
Ph.D., Department of Chemistry
Thesis: A chemical-scale structure-function study on ligand-gated ion channels
Advisor: Dennis A. Dougherty; *Co-advisor*: Henry A. Lester

UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA Sep 1995 - July 2000
B.S., Department of Chemistry (00 Class)
Research Assistant: Elucidating molecular recognition in supramolecular systems
Advisor: Professor Qing-Xiang Guo Apr 1999 - July 2000

CONFERENCES AND PRESENTATIONS

Cystic fibrosis Seminar, School of Medicine, Case Western Reserve University Nov 2010
Talk: Readapting the protein homeostasis network to ameliorate loss-of-function diseases

Department of Biochemistry, University of Utah, Salt Lake City, UT Jan 2010
Invited Talk: Readapting the protein homeostasis network to ameliorate protein folding diseases

Department of Chemistry, Boston College, Chestnut Hill, MA Dec 2009
Invited Talk: Readapting the protein homeostasis network to ameliorate protein folding diseases

Department of Chemistry, Emory University, Atlanta, GA Dec 2009
Invited Talk: Readapting the protein homeostasis network to ameliorate protein folding diseases

Gordon Research Conferences on Stress Proteins in Growth, Development & Disease, Andover, NH Jul 2009
Poster: Proteomic profiling of protein homeostasis regulators for protein misfolding diseases

Department of Pharmacology, Baylor College of Medicine, Houston, TX Mar 2009
Invited Talk: Using chemistry to study ion channels and protein misfolding diseases

Department of Chemistry, University of Florida, Gainesville, FL Jan 2009
Invited Talk: Ameliorating protein folding diseases by restoring proteostasis

Department of Chemistry, University of Pittsburgh, Pittsburgh, PA Nov 2008
Invited Talk: Applying chemical biology on ion channels and protein folding diseases

2008 Metachromatic Leukodystrophy Disease (MLD) Symposium, DeKalb, IL Sep 2008
Invited Talk: Ameliorating lysosomal storage diseases by restoring protein homeostasis

The American Chemical Society 236th National Meeting, Philadelphia, PA Aug 2008
Poster: Readapting the protein homeostasis network to ameliorate loss-of-function diseases

The American Chemical Society 234th National Meeting, Boston, MA Aug 2007
Talk: Using pharmacologic chaperones to improve mutant enzyme activities in lysosomal storage diseases

The Biophysical Society 49th Annual Meeting, Long Beach, CA Jun 2005
Poster: Probing the agonist binding sites of the Cys-loop receptors using unnatural amino acids

Gordon Research Conferences on Ligand Recognition and Molecular Gating, Venture, CA Mar 2004
Poster: Mapping the ligand binding sites of a serotonin-gated ion channel

PROFESSIONAL MEMBERSHIP

Member of the *American Chemical Society*	2001 to present
Member of the *Biophysical Society*	2005 to present
Member of the *American Association for the Advancement of Science*	2007 to present
Member of *Sigma Xi, the Scientific Research Society*	2007 to present
Member of the *American Society for Cell Biology*	2010 to present

SELECTED PUBLICATIONS

Ong DS, **Mu TW**, Palmer AE, Kelly JW (2010) Endoplasmic reticulum Ca^{2+} increases enhance glucocerebrosidase folding, trafficking and function. *Nature Chemical Biology*, 6:424-432

Mu TW,* Ong DS,* Wang YJ, Balch WE, Yates JR, Segatori L,* Kelly JW (2008) Chemical and biological approaches synergize to ameliorate protein-folding diseases. *Cell*, 134:769-791
Highlighted in *Science*, **2008**, 321, 1419, *Chemical and Engineering News*, **2008**, 86(36), 36, and *ACS Chemical Biology*, **2008**, 3(10), 595.

Mu TW, Fowler DM, Kelly JW (2008) Partial restoration of mutant enzyme homeostasis in three distinct lysosomal storage disease cell lines by altering calcium homeostasis. *PLoS Biol*, 6: e26.
Highlighted in *Chemical and Engineering News*, **2008**, 86(6), 46, and *ACS Chemical Biology*, **2008**, 3(3), 137.

Mu TW, Lester HA, Dougherty DA (2003) Different binding orientations for the same agonist at homologous receptors: A lock and key or a simple wedge? *J Am Chem Soc*, 125: 6850-6851.

Mu TW, Liu L, Li XS, Guo QX (2001) A theoretical study on the inclusion complexation of cyclodextrins with radical cations and anions. *J Phys Org Chem* 14: 559-565.