

NAME Xinle Wu		POSITION TITLE Postdoctoral Researcher	
eRA COMMONS USER NAME			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Fudan University (Shanghai, P.R. China)	B.S.	1997	Physiology/Biophysics
Case Western Reserve University (Cleveland, OH)	Ph.D.	2002	Biochemistry

Research and/or Professional Experience:

2002- Postdoctoral Fellow, Department of Biochemistry, UT Southwestern Medical Center, Dallas TX

Member:

American Society for Biochemistry and Molecular Biology
Member, American Association for the Advancement of Science

Selected Publications:

- Saxena, A. K., Saxena, P., **Wu, X.**, Obrenovich, M., Weiss, M. F., Monnier, V. M. (1999) Protein aging by carboxymethylation of lysines generates sites for divalent metal and redox active copper binding: relevance to diseases of glycoxidative stress, *Biochem. Biophys. Res. Commun.* **260**:332-8
- Wu, X.**, Takahashi, M., Chen, S. G., Monnier, V. M. (2000) Cloning of amadoriase I isoenzyme from *Aspergillus* sp.: evidence of FAD covalently linked to Cys342, *Biochemistry*, **39**:1515-21
- Wu, X.**, Palfey, B. A., Mossine, V. V., Monnier, V. M. (2001) Kinetic studies, mechanism, and substrate specificity of amadoriase I from *Aspergillus* sp., *Biochemistry*, **40**:12886-95
- Wu, X.**, Chen, S. G., Petrash, J. M., Monnier, V. M. (2002) Alteration of Substrate Selectivity through Mutation of Two Arginine Residues in the Binding Site of Amadoriase II from *Aspergillus* sp., *Biochemistry*, **41**:4453-58
- Jeong, H. Y., Song, M. H., Back, J. H., Han, D. M., **Wu, X.**, Monnier V., Jahng, K. Y., Chae, K. S. (2002) The veAgene is necessary for the inducible expression by fructosyl amines of the *Aspergillus nidulans* faoAgene encoding fructosyl amino acid oxidase (amadoriase, EC 1.5.3), *Arch. Microbiol.* **178**:344-350
- Wu, X.**, Monnier, V. M. (2003) Enzymatic deglycation of proteins, *Arch. Biochem. Biophys.* **419**:16-24
- Monnier, V. M., **Wu, X.** (2003) Enzymatic deglycation with amadoriase enzymes from *Aspergillus* sp. as a potential strategy against the complications of diabetes and aging, *Biochem. Soc. Trans.* **31**:1349-53
- Erbel-Sieler, C., Dudley, C., Zhou, Y., **Wu, X.**, Estill, S., Han, T., Diaz-Arrastia, R., Brunskill, E. W., Potter, S. S., McKnight, S. L. (2004) Behavioral and regulatory abnormalities in mice deficient in the NPAS1 and NPAS3 transcription factors, *Proc. Natl. Acad. Sci. U. S. A.* **101**:13648-53
- Wu, X.**, Alexander, P.B., He, Y., Kikkawa, M., Vogel, P.D., and McKnight, S.L. (2005). Mammalian sprouty proteins assemble into large monodisperse particles having the properties of intracellular nanobatteries. *Proc. Natl. Acad. Sci.* 102:14058-14062.
- Pieper, A.A., **Wu, X.**, Han, T.W., Estill, S.J., Dang, Q., Wu, L.C., Reece-Fincannon, S., Dudley, C.A., Richardson, J.A., Brat, D.J. and McKnight, S.L. (2005). The neuronal PAS domain protein 3 transcription factor controls FGF-mediated adult hippocampal neurogenesis in mice. *Proc. Natl. Acad. Sci.* 102:14052-14057.