CURRICULUM VITAE

Name: Kuang-Lung Hsueh

Citizenship: Taiwan

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Education:

2005-2011 Ph.D. Graduate Program in Biophysics.

University of Wisconsin-Madison.

Advisor: Steenbock Prof. John L. Markley

2002-2004 M.S. Institute of Bioinformatics and Structural Biology, College of Life Sciences,

National Tsing Hua University, Hsinchu, Taiwan

Advisor: Prof. Wen-guey Wu

1995-1999 B.S. Department of Physics,

National Tsing Hua University, Hsinchu, Taiwan

Advisor: Prof. Ya-chang Chou

Working experience:

2004-2005 Research assistant Institute of Biomedical Sciences, Academia Sinica,

Taipei, Taiwan R.O.C.

P.I. of the Lab: Dr. Tai-huang Huang

Project: Telomere repeat binding protein and DNA complex structure

determination. (AtTRP560+dsDNA complex)

2000-2002 2nd Lieutenant (Compulsory) Chinese Army, Taiwan, R.O.C.

1999-2000 Physics Teacher Ching Chyuan Junior High School, Taichung County, Taiwan

Publications:

NMR investigations of the Rieske protein from *Thermus thermophilus* support a coupled proton and electron transfer mechanism. <u>Free full text.</u> (**2010**) <u>Hsueh KL</u>, Westler WM, Markley JL. *Journal of the American Chemistry Society.* **132**(23):7908-18.

Solution structure of the *Arabidopsis thaliana* telomeric repeat-binding protein DNA binding domain: a new fold with an additional C-terminal helix. (**2006**). Sue SC, Hsiao HH, Chung BC, Cheng YH, <u>Hsueh KL</u>, Chen CM, Ho CH, Huang TH. *Journal of Molecular Biology*. **356**(1):72-85.

Manuscript:

NMR investigations of the Rieske protein from *Thermus thermophilus* support a diffusion model. Hsueh KL, Tonelli M, Westler WM, Markley JL. (in preparation).

PhD Thesis:

NMR Investigations of the Rieske protein from *Thermus thermophilus* support a coupled electron and proton transfer mechanism and a diffusion model.

Master Thesis:

NMR Studies on the Interactions of Heparin Derived Disaccharide with Cobra Cardiotoxin V (CTXA5)

Scientific experience:

- Biochemistry
 - Protein expression and purification
 - Handling of redox proteins
 - Residue-type-selective labeling, reverse selective labeling, and double selective labeling
 - Heparin oligo-saccharide purification
- NMR Spectra Acquisition and Analysis
 - 1D, 2D, and 3D ordinary spectra; paramagnetic optimized pulse sequences
 - 1D-selective excitation spectra, direct detection, superWEFT, and difference decoupling
 - 2D-diffusion ordered spectrum (DOSY)
- NMR Software/programs
 - CYANA (NOESY auto-assignment and structure determination)
 - PINE Server (Automated backbone and sidechain assignment)
 - Sparky (Spectral visualization)
 - Chimera (Structure refinement)

References:

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