

Mikako Kawai

Department of Biostatistics
Ryals Public Health Bldg, 443E
University of Alabama at Birmingham
Birmingham, AL 35294
Tel: (205) 975-9237 or 934-3462
e-mail: mikako@uab.edu

Publication

- Huang, C. -M., Wang, C.-C., **Kawai, M.**, Barnes, S., and Elmets, CA. In vivo protein sampling using capillary ultrafiltration semi-permeable hollow fiber and protein identification via mass spectrometry-based proteomics. *J Chromatogr A*. 2006 Mar 24;1109(2):144-51.
- Huang, C. -M., Wang, C.-C., **Kawai, M.**, Barnes, S., and Elmets, CA. Surfactant sodium lauryl sulfate enhances skin vaccination: molecular characterization via a novel technique using ultrafiltration capillaries and mass spectrometric proteomics. *Mol Cell Proteomics*. 2006 Mar;5(3):523-32.
- Huang, C. -M., Ananthaswamy H., Barnes, S., **Kawai, M.**, Ma, Y., and Elmets, CA. Mass spectrometric proteomics profiles in vivo tumor secretomes via capillary ultrafiltration sampling of regressive tumor masses, submitted to *Proteomics*.
- **M. Kawai**, M. J. Lee, K. O. Evans, and T. M. Nordlund, *Journal of Fluorescence*, Vol. 11, No. 1, 2001, "Temperature and Base Sequence Dependence of 2-Aminopurine Fluorescence Bands in Single- and Double-Stranded Oligodeoxynucleotides"
- R. Kawai and **M. Kawai**, *Surface Science* 195, (1988) 535, "Theory of the low-energy surface Okorokov excitation for studying excited states of atoms in collision with surfaces"

Certificate: Adobe Photoshop Certification (1999)

Experience

- **Biophysics Research at UAB**
Investigated the molecular mechanism of DNA and protein activities by measuring fluorescence excitation spectra of 2-aminopurin incorporated into single-stranded DNA di- and trinucleotides, as well as single- double-stranded pentanucleotides as a function of temperature. I used Microsoft Excel and molecular structure visualization programs to analyze the data.
- **Biomedical Research at the UAB Dermatology Department**
Investigated *in vivo* secreted proteins in the subcutaneous tissue of mouse ear and tumor tissues using Ultrafiltration.
- **Medical Web Site Development and Management**
As a web master, developed and maintained the following medical websites;

- Southern Medical Association (1999-2003)
- Southern Medical Association Services Inc.(1999-2003)
- Southern Orthopaedic Association(1999-2002)
- Southern Association for Oncology(1999-2003)
- Southern Psychiatric Association(1999-2003)

Computer Skills

- **Language** - PHP, HTML, CSS, JavaScript, and DHTML
- **Database** - MySQL
- **Graphics** - Flash, Adobe Photoshop and Adobe Illustrator
- **Software** - Adobe Acrobat, Microsoft Office, Vim, Macromedia Dreamweaver, Macromedia Homesite, SSH
- **OS:** MS Windows 98/2000/XP, Linux, Free BSD

Education

- Bachelor of Science (Waseda University in Tokyo)
- Master of Science (Waseda University in Tokyo)
- Biophysics Research (non-degree seeking, Physics Department at UAB)