THUY D. VO

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EDUCATION

University of California, San Diego

Ph.D. student, Bioinformatics (2002 – Dec 2006) - GPA: 3.9

Thesis: Systems analysis of energy metabolism elucidates mitochondrial roles in human health and disease.

University of California, Berkeley

Bachelor of Arts, High Honors - May 2001

Majors: Chemistry; Molecular and Cell Biology, Emphasis in Genetics

HONORS AND AWARDS

Graduate: Recipient of the Graduate Research and Education in Adaptive bio-Technology (GREAT) Training Program - awarded $100,000 over 2-year period; Recipient of the San Diego Fellowship (2002) - awarded $20,000. Undergraduate: Glenn Seaborg Award for Outstanding Undergraduate Research (2001); College of Letters & Sciences Dean's Honor List (1999); Howard Hughes Undergraduate Research Fellowship (1999); Department of Energy Undergraduate Research Fellowship (1999)

PUBLICATIONS

1. Hurlen N, Becker S, Jamshidi N, Thiele I, Mo M, **Vo TD**, Srivas R, Palsson B, PNAS. Submitted
2. **Vo, TD**., Lim, S.K., Lee, P Lee, and Palsson, B.O, Metabolomics. In press.
3. **Vo, TD**. and Palsson, B.O, American Journal of Physiology – Cell Physiology. In press.
4. **Vo, TD**. and Palsson, B.O. 2006. Biotechnology and Bioengineering 95(5):972-83.
5. Jamshidi N*, **Vo TD***, Palsson BO, Methods in Molecular Biology. In press
6. Thiele I, Price ND, **Vo TD**, Palsson BO. 2005a. J Biol Chem 280(12):11683-95.
7. Thiele I*, **Vo TD***, Price ND, Palsson BO. 2005b. J Bacteriol 187(16):5818-30.
8. **Vo TD**, Greenberg HJ, Palsson BO. 2004. J Biol Chem 279(38):39532-40.
9. Reed JL, **Vo TD**, Schilling CH, Palsson BO. 2003. Genome Biol 4(9):R54.

(*) Authors contributed equally to the work

RESEARCH EXPERIENCES

Graduate Research, Bioinformatics, Bernhard Palsson Laboratory, UCSD
Paul Lee Laboratory, UCLA Medical Center **6/2002 - Present**

- Apply clustering and machine learning algorithms to identify putative metabolic genes in *E. coli*.
- Develop models and implement linear and nonlinear programming methods to analyze and predict metabolic disturbances caused by diabetes, myocardial ischemia, and Leigh's syndrome.
- Perform ^{13}C tracer and GC-MS experiments in normal and diseased fibroblasts to study cellular metabolic response to changes in medium composition.
- Participate in writing proposals and research reports including those for the NSF and the NIH.
- Deliver poster and oral presentations at local and national scientific meetings.

Research Assistant, Adam Arkin Laboratory, UC Berkeley **6/2001 – 6/2002**

Built and maintained a scientific literature database to support the software application developed by the research group. This database improved and facilitated data sharing and management among group members.

Intern at the R.W. Johnson Research and Development, San Diego **6/2000 – 8/2000**

Implemented a novel method for synthesizing a library of potential drug molecules using solid support chemistry.

UCSF Summer Research Intern, Dept. of Pharmaceutical Chemistry, UCSF **6/1999 – 8/1999**

Chemically synthesized a compound required for development of a new protein labeling technology.

TEACHING EXPERIENCES

Instructor, University of Incheon, Korea – Systems Biology Workshop	12/5-12/9, 2005
Teaching Assistant, Bioengineering, UCSD – Graduate course on Biological Networks	1/2004 – 3/2004
Teaching Assistant, Phillips Academy, Andover, MA - Intensive Beginning Chemistry	6/2001 – 8/2001
Teaching Assistant, Chemistry, UC Berkeley - General Chemistry and Quantitative Analysis	8/2000 – 5/2001

COMPUTER SKILLS: Languages: C/C++, Perl, MATLAB, GAMS; Platform: Unix, Windows, MAC

RELEVANT COURSE WORK: Introduction to Technology Business Startup Process, Database System Principle, Advanced Data Structures, Design & Analysis of Algorithm, Statistical Methods in Bioinformatics, Numerical Optimization, Bioinformatics Sequence & structure analysis.