

Chern-Sing Goh

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Current Position:

Yale University, 2002 – present
NIH Postdoctoral Fellow, Molecular Biophysics and Biochemistry
Advisor – Professor Mark Gerstein

Education:

University of California, San Francisco, 1998-2002
PhD, Biological and Medical Informatics
Thesis – “Characterizing the Co-Evolution of Protein-Protein Interactions”
Graduate Advisor - Professor Fred Cohen

University of Wisconsin-Madison, 1990-1994
Bachelor of Science, Molecular Biology
Graduated with Honors

Honors and Awards:

2003-present NIH Ruth L Kirschstein National Research Postdoctoral Fellow
2001-2002 Burroughs Wellcome - UCSF Interfaces in Science Award
1990-1994 Dean's List
1990-1994 University of Wisconsin, Madison Full Tuition Scholarship

Professional Experience:

1997-1998 Research Associate - Department of Molecular and Cell Biology
Principle Investigator: Professor David Raulet
University of California, Berkeley

1996-1997 Research Specialist - Department of Neurological Surgery
Principle Investigator: Dr. Behnam Badie
University of Wisconsin, Madison

1995-1996 Research Assistant - Department of Human Oncology
Principle Investigator: Professor Michael Gould
University of Wisconsin, Madison

1994-1996 Research Specialist - Department of Psychiatry
Principle Investigator: Professor Lorey Takahashi
University of Wisconsin, Madison

Research and Publications:

- Goh CS**, Gianoulis TA, Liu Y, Li J, Paccanaro A, Lussier YA, Gerstein M (2006). Integration of curated databases to identify genotype-phenotype associations. *BMC Genomics* 7:257.
- Liu Y, Li J, Sam L, **Goh CS**, Gerstein M, Lussier YA (2006). An integrative genomic approach to uncover molecular mechanisms of prokaryotic traits. *PLoS Comput Biol* 2(11):e159.
- Lehnert U, Xia Y, Royce TE, **Goh CS**, Liu Y, Senes A, Yu H, Zhang ZL, Engelman DM, Gerstein M (2004). Computational analysis of membrane proteins: genomic occurrence, structure prediction and helix interactions. *Q Rev Biophys* 37(2):121-46.
- Goh CS**, Milburn D, Gerstein M (2004). "Conformational Changes Associated with Protein-Protein Interactions," *Curr Opin Struct Biol* 14(1):104-9.
- Goh CS**, Lan N, Douglas SM, Wu B, Echols N, Smith A, Milburn D, Montelione GT, Zhao H, Gerstein M (2004). "Mining the Structural Genomics Pipeline: Identification and Analysis of Protein Properties that Affect High-Throughput Experimental Analysis," *J Molecular Biology* 336(1):115-30.
- Goh CS**, Lan N, Echols N, Douglas SM, Milburn D, Bertone P, Xiao R, Ma LC, Zheng D, Wunderlich Z, Acton T, Montelione GT, Gerstein M (2003). "SPINE 2: A System for Collaborative Structural Proteomics within a Federated Database Framework." *Nucleic Acids Research* 31(11): 2833-2838.
- Devoto A, Hartmann HA, Piffanelli P, Elliott C, Simmons C, Taramino G, **Goh CS**, Cohen FE, Emerson BC, Schulze-Lefert P, Panstruga R (2003). "Molecular Phylogeny and Evolution of the Plant-Specific Seven Transmembrane MLO Family." *J Molecular Evolution* 56(1): 77-88.
- Goh CS**, Cohen FE (2002). "Co-Evolutionary Analysis Reveals Insights into Protein-Protein Interactions," *J Molecular Biology* 324(1): 177-92.
- Beisser PS, **Goh CS**, Cohen FE, Michelson S (2002). "Viral Chemokine Receptors and Chemokines in Human Cytomegalovirus Trafficking and Interaction with the Immune System." *Curr Top Microbiol Immunol* 269: 203-234.
- Goh CS**, Bogan AA, Joachimiak J, Walther D, Cohen FE (2000). "Co-evolution of proteins with their interaction partners." *J Molecular Biology* 299(2): 283-293.
- Badie B, **Goh CS**, Klaver J, Herweijer H, Boothman D (1999). "Collective radiation and p53 gene therapy of malignant glioma cells." *Cancer Gene Ther* 6(2): 155-162.
- Chauvet AE, Kesava PP, **Goh CS**, Badie B (1998). "Selective intra-arterial gene delivery into a canine meningioma." *J Neurosurgery* 88(5): 870-873.
- Takahashi LK, **Goh CS** (1998). "Glucocorticoid facilitation of cholinergic development in the rat hippocampus." *Neuroscience* 83(4): 1145-1153.
- Takahashi LK, **Goh CS** (1997). "Presynaptic muscarinic cholinergic receptors in the dorsal hippocampus regulate behavioral inhibition of preweanling rats." *Brain Research* 731(1-2): 230-235.

Technical Skills:

Programming: Perl, Java, C, Python, SQL, JavaScript, HTML, CGI programming
Operating Systems: Unix, Linux, SGI, Windows 98/NT/2000/XP, Mac OS
Software: S-Plus, R, BLAST, FASTA, ClustalW, Phylip, GCG, Modeller, DALI, GRASP, Delphi, MEME, HMMER, PyMol