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Education and Research Experience:

2001-present Senior Research Associate
Computational Biology Service Unit
Cornell Theory Center

Working Area: Bioinformatics

2000 -2001 Senior Project Scientist
Database Research and Development Department
Incyte Genomics (Proteome Division)

Working Area: Development of mammalian proteome annotation database.

1999 -2000 Postdoctoral fellow
Massachusetts General Hospital, Harvard Medical School, Boston
Advisor: Dr. James Gusella

Research Area: Genetics of human neurological diseases

1993 – 1999 Ph.D. Molecular neurobiology
California Institute of Technology, Pasadena
Advisor: Dr. Kai Zinn

Research Area: Molecular genetics of axon guidance in *Drosophila*.

1989 - 1992 MS Bacteriology
Shanghai Institute of Plant Physiology
Chinese Academy of Science, Shanghai, China

Advisor: Dr. Yun-Liu Yang

Research Area: Molecular genetics of mitomycin-synthetic pathways in *Streptomyces*.

1985 - 1989 BS Biology

Fudan University, Shanghai, China

Publications:

1. Wissner RJ, Sun Q, Hulbert SH, Kresovich S, and Nelson RJ (2005) Identification and Characterization of Regions of the Rice Genome Associated with Broad Spectrum, Quantitative Disease Resistance. *Genetics* Feb 16[Epub]
2. Xin HB, Deng KY, Shui B, Qu S, Sun Q, Lee J, Greene KS, Wilson J, Yu Y, Feldman M, Kotlikoff MI. (2004) Gene trap and gene inversion methods for conditional gene inactivation in the mouse *Nucleic Acids Res* 33(2)
3. Sherwood NT, Sun Q, Xue M, Zhang B, Zinn K. (2004) *Drosophila* spastin regulates synaptic microtubule networks and is required for normal motor function. *PLoS Biol* 2(12):e429
4. Sun Q, Emanuelsson O, van Wijk KJ. (2004) Analysis of curated and predicted plastid subproteomes of *Arabidopsis*. Subcellular compartmentalization leads to distinctive proteome properties. *Plant Physiol* 135(2):723-34.
5. Peltier JB, Ytterberg AJ, Sun Q, Van Wijk KJ. (2004) New functions of the thylakoid membrane proteome of *Arabidopsis thaliana* revealed by a simple, fast and versatile fractionation strategy. *J Biol Chem* 279(47):49367-83
6. Friso G, Giacomelli L, Ytterberg AJ, Peltier JB, Rudella A, Sun Q, Wijk KJ. (2004) In-depth analysis of the thylakoid membrane proteome of *Arabidopsis thaliana* chloroplasts: new proteins, new functions, and a plastid proteome database. *Plant Cell* 16(2):478-99
7. A.T. Pickup, M.L. Lamka, Q. Sun, M.L.R. Yip, H.D. Lipshitz. (2002) Control of photoreceptor cell morphology, planar polarity and epithelial integrity during *Drosophila* eye development. *Development* 2002 129:2247-58
8. Sun Q, Bahri S, Schmid A, Chia W, Zinn K. (2000) Receptor tyrosine phosphatases regulate axon guidance across the midline of the *Drosophila* embryo. *Development* 127:801-12
9. Sun Q, Schindelholz B, Knirr M, Schmid A, Zinn K. (2000) Complex Genetic Interactions among Four Receptor Tyrosine Phosphatases Regulate Axon Guidance in *Drosophila*. *Molecular and Cellular Neuroscience* 17:274-91

10. K. Zinn, Q. Sun. (1999) Slit branches out: a secreted protein mediates both attractive and repulsive axon guidance. *Cell* 97:1-4
11. C.J. Desai, Q. Sun, K. Zinn. (1997). Tyrosine phosphorylation and axon guidance - of mice and flies. *Current Opinion of Neurobiology* 7(1): 70-74.
12. T. Saito, A. Greenwood, Q. Sun, D. J. Anderson. (1996). Identification by differential rt-PCR of a novel paired homeodomain protein specifically expressed in sensory neurons and a subset of their cns targets. *Molecular and Cellular Neurobiology* 6(3): 280-292.
13. J. Hua, C. Chang, Q. Sun, E. M. Meyerowitz. (1995). Ethylene insensitivity conferred by Arabidopsis ERS gene. *Science* 269: 1712-1714.