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### EDUCATION

- PH.D. **Washington State University**, Pullman, Program in Plant Physiology May 2002  
**Dissertation: The role of multiple dilysine repeats in vacuolar localization**  
Howard Grimes (Chair), John Browse, John Rogers, Kathleen Postle, Lisa Gloss
- M.S. **University of Central Oklahoma**, Edmond, Department of Biology 1997  
**Thesis: Organelle-specific enzymes related to chlorophyll deficiencies in soybean.**  
James Bidlack (Chair), David Elmendorf, John Hrantz
- B.S. **University of Central Oklahoma**, Edmond, Department of Biology 1994

### RESEARCH EXPERIENCE

- RESEARCH ASSISTANT Washington State University 1997 - Present  
**Cell biology of SBP and LC23 in developing soybean seed.**
- SUMMER INTERNSHIP DuPont Agricultural Research Station, Newark, DE Summer 1997  
**Chromatographic analysis of altered starch structure**
- TEACHING ASSISTANT Washington State University, Pullman 1996 – 1997  
**Botany Lab & General Biology Lab**
- RESEARCH ASSISTANT University of Central Oklahoma, Edmond 1994 – 1996  
**Enzymology of Malate dehydrogenase in mutant soybean.**

### PUBLICATIONS

Elmer, A.M., W.S. Chao, and H.D. Grimes. 2002. Localization of a Dilysine repeat containing protein to the ER, Golgi, and vacuolar compartments.. Some place better .....

Elmer, A.M., and H.D. Grimes. 2002. Immunolocalization and quantitative analysis of SBP1 and SBP2 in developing soybean seeds. Plant Mol. Biol. ????

Elmer, A.M., C.A. Barton, and J.E. Bidlack. 1994. Hypothetical mechanism for chlorophyll abnormalities in mutant soybean lines. Soybean Genet. Newsl. 21:199-203.

### SKILLS

- EXPERIMENTAL Immunocytochemistry; 2D Gel Electrophoresis; Arabidopsis Transformation; RNA silencing; Heterologous Expression; Fusion Protein Purification; Antibody Purification; Subcellular Fractionation; Various Spectrophotometric Techniques; some HPLC and Gas Chromatography.
- COMPUTER I am both Apple and Microsoft compatible. I have experience with electronic submission of papers and grants. Adobe products, Endnote, Oligo 6.0, Word, Power Point, and Excell, some web design and a little computer programming.
- INTERNET NCBI/ENTREZ, Molecular Workbench, BLOCKS, PFAM, PSORT, AIMS, TAIR, TIGR, SWISS-PROT, Stanford Genomic Resources, and Expasy

### AWARDS

- Graduate Program in Plant Physiology Research Assistantship** August 1998 – May 1999

### **POSTERS AND UNREFERED PUBLICATIONS**

Grimes, H.D., A.M. Elmer, K.A. Murphy, W.S. Chao. 2000. The cytosolic loop of a soybean sucrose transporter interacts with a protein containing ankyrin repeats. ASPP Annual Meetings.

Chao, W.S., A.M. Elmer, H.D. Grimes. 1999. Biochemical characterization and regulation of sucrose transport. ASPP Annual Meetings.

Chao, W.S., A.M. Elmer, P.J. Overvoorde, H.D. Grimes. 1997. Functional and structural analysis of sucrose binding protein in a heterologous yeast system. ASPP Annual Meetings.