

Professional Experience

InterveXion Therapeutics, LLC

Little Rock, AR

Operations Director

2007-Present

- Manage interactions between company and contracted life science businesses
- Co-author of pre-IND meeting information package submitted to FDA for a therapeutic mAb
- Responsible for regular business plan, product timeline, and budget updates
- Write NIH grant/contract applications (STTR/SBIR, etc), prepare budgets and progress reports
- Review business contracts and patent prosecution, act as primary consult with legal teams

Staff Scientist

2005-2007

- Conducted science operations and ordered science supplies for company
- Improved existing company business plan by reorganizing and adding new sections

Harvard Medical School and Brigham & Women's Hospital

Boston, MA

Postdoctoral Fellow

2003-2005

- Studied role of small GTPases in regulation of cytoskeleton through scaffold, IQGAP1
- Used a migratory breast cancer cell line (MCF-7) to model metastasis

University of Arkansas

Fayetteville, AR

Doctoral Graduate Assistant

1999-2003

- Identified and purified translocase necessary for protein integration into thylakoid membranes
- Designed purification strategies for multiple recombinant proteins for biochemical assays

Education

University of Arkansas

Fayetteville, AR

MBA in Management

Expected 2010

- Pursuing entrepreneurial track with emphasis on finance, 4.0 gpa through first year

Ph.D. in Biological Sciences

2003

- Dissertation advisor: Dr. Ralph Henry, 4.0 gpa
Title: CpSRP, cpFtsY, and Albino3, Components of the Signal Recognition Particle P protein Transport Pathway in Chloroplasts, Function in LHCP Integration and Formation of a Complex at the Membrane (Some Assembly Required)

Bachelor of Science in Agriculture

1999

- Major in Horticultural Science, Summa cum laude, 3.98 gpa

Professional Activities

InvestMidwest Venture Conference, St. Louis, MO, Feb. 2008 – InterveXion representative

Arkansas Venture Conference, Rogers, AR, Nov. 2006 – InterveXion representative and invited expert on Biotech panel

Publications (note my former name was M. Moore)

Cai Y, **Moore M**, Goforth R, Henry R, Beitle R (2004) Genomic data for alternate production strategies.

I. Identification of major contaminating species for Cobalt(+2) immobilized metal affinity chromatography. *Biotechnol Bioeng.* 88(1):77-83.

- Goforth RL, Peterson EC, Yuan J, **Moore MJ**, Kight AD, Lohse MB, Sakon J, Henry RL. (2004) Regulation of the GTPase cycle in post-translational signal recognition particle-based protein targeting involves cpSRP43. *J Biol. Chem.* 279(41):43077-84.
- Moore M**, Goforth RL, Mori H, Henry R. (2003) Functional interaction of chloroplast SRP/FtsY with the ALB3 translocase in thylakoids: substrate not required. *J Cell Biol.* 162(7):1245-54.
- Yuan, J, A Kight, R Goforth, **M Moore**, EC Peterson, J Sakon, R Henry. (2002) ATP stimulates SRP/FtsY-supported protein integration in chloroplasts. *J Biol. Chem.* 277(35):32400-4.
- Jiang, F, L Yi, **M Moore**, M Chen, T Rohl, KJ van Wijk, JW de Gier, R Henry, R Dalbey. (2002) Chloroplast YidC homologue Albino3 can functionally complement the bacterial YidC depletion strain and promote membrane insertion of both bacterial and chloroplast thylakoid proteins. *J Biol. Chem.* 277(22):19281-8.
- Mant, A, CA Woolhead, **M Moore**, R Henry, C Robinson. (2001) Insertion of PsaK into the thylakoid membrane in a 'horse-shoe' conformation occurs in the absence of signal recognition particle, nucleoside triphosphates or functional Albino3. *J Biol. Chem.* 276(39):36200-6.
- Woolhead, CA, S Thompson, **M Moore**, C Tissier, A Mant, A Rodger, R Henry, C Robinson. (2001) Distinct Albino3-dependent and -independent pathways for thylakoid membrane protein insertion. *J Biol. Chem.* 276(44):40841-6.
- Moore, M**, MS Harrison, EC Peterson, R Henry. (2000) Chloroplast Oxa1p homologue, Albino3, functions in post-translational integration of the light harvesting chlorophyll-binding protein into thylakoid membranes. *J Biol. Chem.* 275(3):1529-32.
- DeLille, J, EC Peterson, T Johnson, **M Moore**, A Kight, R Henry. (2000) A novel recognition element in LHCP enables post-translational binding by a chloroplast signal recognition particle. *Proc Natl Acad Sci.* 97: 1926-31.
- Brar, MS, **M Moore**, JM Al-Khayri, TE Morelock, EJ Anderson. (1999) Ethylene inhibitors promote in vitro regeneration of cowpea (*Vigna unguiculata* L.) *In Vitro Cell. and Mol. Biol. Plant* 35(3):222-5.

Poster Presentations

- Moore, M**, F Jiang, R Dalbey, and R Henry. (2002) "Chloroplast SecE requires ALB3 for integration into the *E. coli* inner membrane, but not thylakoid membranes." **American Society for Biochemistry and Molecular Biology**, Experimental Biology; New Orleans, LA.
- Moore, M**, and R Henry. (2000) "Composition of the ALB3 translocon in chloroplast thylakoid membranes." **The American Society for Cell Biology**, Annual Meeting; San Francisco, CA.
- Moore, M**, and R Henry. (2000) "Thylakoid localization of chloroplast ALB3, homologue of mitochondrial Oxa1p." **American Society for Microbiology**, Macromolecular Transport Across Cellular Membranes; Savannah, GA.

Skills and Techniques

Recombinant protein production in bacterial and baculovirus-infected insect cell systems; Protein purification of soluble recombinant proteins (FP-LC-based affinity, size exclusion, and ion exchange chromatography) and membrane proteins (detergent solubilized membrane complexes for density gradient centrifugation and FPLC chromatographic methods); Radiolabeled protein production by *in vitro* transcription and translation; Mammalian and insect cell culture; Lipid-mediated transfection of mammalian cells; Stable cell line production/selection; Recombinant retrovirus production and infection; Protein analysis (Western blotting, SDS-PAGE; Blue-Native PAGE of soluble and membrane proteins; 2-D PAGE; protein-protein interactions using immunoprecipitation and chemical cross linking, protein preparation for mass spectrometry); Confocal/fluorescence microscopy; PCR-based DNA cloning and site-directed mutagenesis; Plant transformation using *Agrobacterium*.

Honors and Awards

NIH Postdoctoral Training Fellowship, 2004–2005

NSF EPSCoR Pre-doctoral Fellowship, 1999-2002

Edmund Undergraduate Paper Competition, 1st Place Award, 1998

- American Society for Horticultural Science, Southern Region Meeting

Presidential Scholar Award, 1998

- University of Arkansas, College of Agricultural, Food and Life Sciences

Hobbies and Community

Hobbies - nature photography, hiking in national parks, reading science fiction, cooking and baking

Worked on Angel Tree program for children with an incarcerated parent, Little Rock, AR, 2005-2007

Member of church program to provide breakfast to elementary school children