

CURRICULUM VITAE

Cheri M. Hampton, Ph. D.

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Education

- 1990-1992 Biology Major Berry College, Rome, GA
- 1992-1995 BS Biology University of Georgia, Athens, GA
- 1998-2006 PhD Molecular Biophysics, Florida State University, Tallahassee, FL
Advisor, 2002-present: Kenneth A Taylor
Dissertation Title: Reading Between the Filaments: Structural
Characterization of Two Different F-Actin Cross-Linking Proteins by
Electron Microscopy.

Professional Career

- 1990-1991 Student Work Opportunity with Biology professor
Extracting fossils from matrix
- 1992 Berry College Externship Award recipient
CDC, Atlanta, GA
- 1995-1998 Laboratory Technician, UGA College of Veterinary Medicine
Physiology and Pharmacology Department
Molecular Biology and Genetics
- 2000 Teaching Assistant, Prokaryotic Diversity Lab, FSU Biology
- 2006-pres. Post Doc. Institute of Molecular Biophysics, Florida State University
- 2007-pres Consultant to Animal Genetics, Inc.
Set-up and optimization of multi-plex DNA testing for Equine traits

Professional Memberships

American Society for Cell Biology

Conferences Attended

FSU-Structural Biology: 25 Years of CryoEM of Biological Macromolecules
January 8-9, 1999, Turnbull Conference Center, Tallahassee, Florida

Chlamydomonas 2000. Amsterdam, The Netherlands

Computational Structural Biology: From Simulation to Experiment & Back
January 18-21, 2001, Turnbull Conference Center, Tallahassee, Florida

Gordon Research Conference--Motile and Contractile Systems, 2003

Gordon Research Conference--Cell Contact and Adhesion, 2003

Cell Migration Consortium, May 14-16, 2004, Washington, D.C.

Gordon Research Conference--Signaling by Adhesion Receptors, 2004

Gordon Research Conference--Three Dimensional Electron Microscopy, 2005

American Society for Cell Biology, December 10-14, 2005. San Francisco, CA

American Society for Cell Biology, December 9-13, 2005. San Diego, CA

Gordon Research Conference--Three Dimensional Electron Microscopy, 2007

Posters Presented

Gordon Research Conference--Signaling by Adhesion Receptors, 2004
"The Structural Regulation of Calcium-Sensitive α -Actinin-1."

Gordon Research Conference--Three Dimensional Electron Microscopy, 2005
"Structures of 2D Rafts of F-actin and Bundling Proteins on Lipid Monolayers."

American Society for Cell Biology, December 10-14, 2005. San Francisco, CA
"Quantification of Structural Morphology of α -Actinin Cross-linking Ability."

American Society for Cell Biology, December 9-13, 2006. San Diego, CA
"Villin interacts with F-actin in a manner distinct from gelsolin."

Gordon Research Conference—Three Dimensional Electron Microscopy, 2007
“F-actin: Villin Cross-links.”

Published Abstracts

Hampton, C. M., Taylor, D. W. and Taylor, K. A. (2005). Quantification of Structural Morphology of α -Actinin Cross-linking Ability Mol. Biol. Cell 16 (suppl), L96. (Late Abstracts, The American Society for Cell Biology 45th Annual Meeting)

Hampton, C. M., Taylor, D.W., Ouyang, G., DeRosier, D. J. and Taylor, K. A. (2006). Villin Interacts with F-actin in a Manner Distinct from Gelsolin. Mol. Biol. Cell 17 (suppl), L34 (Monday). (Late Abstracts, The American Society for Cell Biology 46th Annual Meeting)

Hampton, C. M., Taylor, D.W., Ouyang, G., DeRosier, D. J. and Taylor, K. A. (2007). Villin Interacts with F-actin in a Manner Distinct from Gelsolin as Determined by Electron Tomography. (Microscopy and Microanalysis Proceedings 2007).

Workshops

SPIDER Workshop- Wadsworth Center, Rennessearville, NY, May 8-13, 2007

Invited Speaker

Gordon Research Conference—Three Dimensional Electron Microscopy, 2007
“Structure of the Villin-Actin Cross-link using Single-Particle Analysis of 3D Volumes.”

Peer Reviewed Publications

Cheri M Hampton and Kenneth A Taylor. Alpha-actinin-2. *AfCS-Nature Molecule Pages* (2006). (doi:10.1038/mp.a000195.01).

Cheri M Hampton and Kenneth A Taylor. Alpha-actinin-3. *AfCS-Nature Molecule Pages* (2006). (doi:10.1038/mp.a000196.01).

Cheri M Hampton and Kenneth A Taylor. Alpha-actinin-4. *AfCS-Nature Molecule Pages* (2006). (doi:10.1038/mp.a000197.01).

Cheri M Hampton, Dianne W Taylor, Kenneth A Taylor. Novel structures for α -actinin: F-actin interactions and their implications for actin-membrane attachment and tension sensing in the cytoskeleton. *Journal of Molecular Biology*. 368 (1): 92-104 (2007).

Cheri M Hampton, David DeRosier, Kenneth A Taylor. Structure of villin-actin cross-links. *In Preparation*.