

Anne Roush Gaillard
Assistant Professor
Department of Biological Sciences
College of Arts and Sciences

Degrees Earned

Ph.D. , Cell Biology, Emory University, 2001

B.S., Genetic Biology, Purdue University, 1996

Professional Licensure and Certifications

none

Peer-Reviewed Publications and Artistic Performances/Exhibitions

Articles

Wirschell, M., F. Zhao, C. Yang, P. Yang, D. Diener, **A.R. Gaillard**, J. L. Rosenbaum, and W. S. Sale. 2007. Building a radial spoke: flagellar radial spoke protein 3 is a dimer. *Cell Motility and the Cytoskeleton*. *In Press*.

Gaillard, A.R., L.A. Fox, J.M. Rhea*, B. Craige, and W.S. Sale. 2006. Disruption of the A-kinase anchoring domain in flagellar radial spoke protein 3 results in unregulated axonemal PKA activity and abnormal flagellar motility. *Molecular Biology of the Cell*. 17: 2626-2635.

Gaillard, A. Roush, D. Diener, J. Rosenbaum, and W. Sale. 2001. Radial spoke protein 3 is an A-kinase anchoring protein (AKAP). *Journal of Cell Biology*. 153: 443-448.

Roush, A., M. Suarez, E.C. Friedberg, M. Radman, and W. Siede. 1998. Deletion of the *Saccharomyces cerevisiae* gene RAD29 encoding an *Escherichia coli* *dinB* homolog confers UV radiation sensitivity and altered mutability. *Molecular and General Genetics*. 257: 686-692.

Books

none

Chapters

none

Proceedings

none

Artistic Performances

none

Artistic Exhibitions

none

Research Monographs and Technical Reports

none

Funded External Grants

Loft, Brian M., Melinda A. Holt, and **Anne R. Gaillard**. 2007. Peers Enhancing their Education through Research and Scholarship (PEERS). National Science Foundation. **\$599,980**

Gaillard, A.R. 2006. Water toxicity of the Rio Grande basin **\$29,000**. Contracted from J.K. Williams and W.I. Lutterschmidt (PI's), Land use practices and its effect on ecosystem dynamics along the Rio Grande. Sustainable Agricultural Water Conservation, USDA-CSREES grant. \$156,000.

Peer-Reviewed Presentations/Posters

Belen-Rivera, J., B. Verhalen, A.D. Solmonson, and **A.R. Gaillard**. Characterization of an axonemal cGMP-dependent protein kinase (PKG) in *Chlamydomonas reinhardtii*. 47th Annual Meeting of the American Society for Cell Biology, Washington, D.C., December 2007.

Verhalen, B., A.D. Solmonson, and **A.R. Gaillard**. The flagellar axoneme of *Chlamydomonas* contains a cGMP-dependent protein kinase (PKG) that regulates axonemal motility. 12th International Conference on the Cell and Molecular Biology of *Chlamydomonas*, Portland, OR, May 2006.

Verhalen, B. and **A.R. Gaillard**. The *Chlamydomonas* flagellar axoneme contains a cGMP-dependent protein kinase that regulates axonemal motility. 45th Annual Meeting of the American Society for Cell Biology, San Francisco, CA, December 2005.

Wirschell, M., F. Zhao, D. Diener, **A.R. Gaillard**, C. Yang, P. Yang, J. Rosenbaum, W. S. Sale. The flagellar A-Kinase Anchoring Protein, RSP3, is a Dimer. 45th Annual Meeting of the American Society for Cell Biology, San Francisco, CA, December 2005.

Gaillard, A.R., J.M. Rhea, M. Shaw, and W.S. Sale. RSP3-anchoring of PKA in *Chlamydomonas* axonemes is required for the regulation of PKA activity and normal flagellar motility. 43rd Annual Meeting of the American Society for Cell Biology. San Francisco, CA, December, 2003.

Gaillard, A.R., J.M. Rhea, and W.S. Sale. Anchoring of axonemal PKA is required for regulation of flagellar motility in *Chlamydomonas*. 42nd Annual Meeting of the American Society for Cell Biology, San Francisco, CA, December, 2002.

Work or Professional Experiences

Assistant Professor, Department of Biological Sciences Sam Houston State University, Huntsville, Texas, 2004-present

Lecturer, Department of Biology Texas A&M University, College Station, Texas, 2004

Assistant Professor, Department of Biology North Georgia College and State University, Dahlonega, Georgia, 2001-2003

Honors and Awards

Who's Who Among America's Teachers, 2007

Other Competencies

Undergraduate Research Students Who Immediately Entered Ph.D. Programs After Graduation

Jeanne Rhea, Ph.D. Program in Genetics, University of Georgia

Brandy Verhalen, Ph.D. Program in Cell and Developmental Biology, SUNY Upstate

Membership in Professional Societies

American Society for Cell Biology

Sigma Xi Scientific Research Society

Genetics Society of America

Beta Beta Beta Biological Honor Society