

CURRICULUM VITAE

Scott E. Chirhart Ph.D.

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Department of Biology at Centenary College

EDUCATION:

Southwestern University	B.S	1998	Biology
Texas A&M University	Ph.D.	2003	Biology

RESEARCH INTERESTS:

Evolutionary Biology, including:
Evolutionary/Population Genetics, Vertebrate Speciation and Systematics, Molecular Variation

EXPERTISE:

DNA Isolation/Purification
Polymerase Chain Reaction (mtDNA and DNA microsatellites)
DNA Sequencing
Operation of ABI 377 and ABI 310 Automated Sequencer
Sequence Alignment (Sequencher 3.1)
Microsatellite Primer Construction
Microsatellite Genotyping
Data Analysis: PAUP*, PHYLIP, MacClade, Genepop, Msat, Cervus, BIOSYS

WORKSHOPS TAUGHT:

Event Based Learning: Real-World Context for the Integration of Science and Math.
Funded by Louisiana Systemic Initiatives Program; LaSIP. July 2006.
Northwest Louisiana Mathematics and Science Enhancement Program for DeSoto and Caddo Schools. Funded by the Louisiana Department of Education. July 2006
Teaching Assistant Workshop - Center for Teaching Excellence/Department of Biology, Texas A&M University. August 1999-2002, 2004-2006. Topics included: preparing an introduction and summary, Bloom's taxonomy for level of questioning and test making, classroom management, policy and procedures for teaching at a higher academic institution, evaluation of microteaching presented by participants, continuing support and evaluation of 25-50 new teaching assistants.

LECTURE EXPERIENCE:

Tropical Biology. Department of Biology, Centenary College of Louisiana, May 2005-present.
Evolution. Department of Biology, Centenary College of Louisiana, January 2005-present
Analysis of Biological Literature. Department of Biology, Centenary College of Louisiana, August 2004-present.
Comparative Anatomy. Department of Biology, Centenary College of Louisiana, August 2004-present.
Structures and Functions of Organisms. Department of Biology, Centenary College of Louisiana, January 2004-present.

Principles and Methods of Biology. Department of Biology, Centenary College of Louisiana, August 2003-present.
Special Topics in Phylogenetic- Microsatellite Evolution and Data Analysis. Department of Biology, Texas A&M University, April 2003.
Introductory Biology- Phylum Chordata. Department of Biology, Texas A&M University, April 2003.
Comparative Anatomy- Vertebrates. Department of Biology, Texas A&M University, November 2002.
Introductory Biology Laboratory (first and second semesters) 1999-2003.
Honors Introductory Biology Laboratory (first and second semesters) 2000-2003.
Chordate Anatomy Laboratory 1998-2003.

SUPERVISORY EXPERIENCE:

Faculty Mentor- National Science Foundation REU Site Program in Engineering.
“Environmental Processes in Fluctuating Environments.” Phylogenetic Implications of Nuclear Sequence Variation in the *Peromyscus maniculatus* species group. May-Aug. 2005.
Faculty Mentor- National Science Foundation REU Site Program in Engineering.
“Environmental Processes in Fluctuating Environments.” Oversaw project: Mitochondrial DNA analysis of Deer Mice from California. May-Aug. 2004.
Graduate Mentor - National Science Foundation REU Site Program in Engineering, R.L. Honeycutt and J. Bonner (PI's). “Environmental Processes in Fluctuating Environments.” Oversaw project: Mitochondrial DNA analysis of *Peromyscus maniculatus* from Baja, California. May-Aug. 2002.
Graduate Mentor - National Science Foundation REU Site Program in Engineering, R.L. Honeycutt and J. Bonner (PI's). “Environmental Processes in Fluctuating Environments.” Oversaw project: Mitochondrial DNA analysis of *Peromyscus keeni*. May-Aug. 2001.
Graduate Mentor - National Science Foundation REU (Research Experiences for Undergraduates) Site Program in Engineering, R.L. Honeycutt and J. Bonner (PI's). “Environmental Processes in Fluctuating Environments.” Oversaw project: Mitochondrial DNA analysis of wading birds (tri-colored herons, great egrets, and snowy egrets). May-Aug. 2000.

GRANTS:

Louisiana Board of Reagents Grant. “Enhancement of Biomolecular Tools at Centenary College.” \$47,802 April 2005.
Louisiana Board of Reagents Grant. “Focus on Biology: Using Digital Microscopes to Enhance Knowledge, Critical Thinking, and teamwork in Biology Courses.” \$28,761 April 2005.
Charlton H. Lyons Faculty Summer Research Grant. \$2,500. Summer 2005.
Louisiana Board of Reagents Grant. “Enhancement of Pre-Professional Health Sciences at Centenary College.” \$25,920 August 2004.
Faculty Development Committee Summer Research Grant. \$1,250. Summer 2004, 2006.

AWARDS:

Centenary College Maroon Jacket Award. 2006.
Centenary College Pacesetter Award. 2005, 2006.
Endowed Professorship in the Natural Sciences. \$3,000. 2004-2006.
Texas A&M University Department of Biology Poster Contest, Second Place. 2003.
Texas A&M University, Department of Biology, Doctoral Merit Award. 2002-2003.
Texas A&M University, Department of Biology, Teaching Excellence Award. 2002.
Texas A&M University Student Research Week Poster Contest, First Place. 2002.
Texas A&M University Department of Biology Poster Contest, Third Place. 2002.
Texas Society of Mammalogists, Texas Society of Mammalogy Award, 2002.
Texas A&M Graduate Student - Faculty Minigrant. \$1,500. 1999.

PUBLICATIONS:

Walker, M.L., S.E. Chirhart, A.F. Moore, R.L. Honeycutt and I.F. Greenbaum.
Genealogical Concordance and the Specific Status of *Peromyscus sejugis*. (In press
Journal of Heredity).
Chirhart, S.E., R.L. Honeycutt and I.F. Greenbaum. 2005. Patterns of variation at
microsatellite loci in deer mice of the genus *Peromyscus*. *Mol Phylogenet Evol* 34:408-
415.
Chirhart, S.E., R. Arianpour, R.L. Honeycutt and I.F. Greenbaum. 2001. Mitochondrial-
DNA sequence variation and the specific identification of deer mice (*Peromyscus*) from
Triangle Island, British Columbia, Canada. *Can J Zool* 2257-2260.
Chirhart, S.E., R.L. Honeycutt and I.F. Greenbaum. 2000. Microsatellite markers for the
deer mouse *Peromyscus maniculatus*. *Mol Ecol* 9:1668-1671.

PROFESSIONAL SOCIETY AFFILIATIONS:

Centenary College of Louisiana (2003-present)
National Association of Advisors for the Health Professions (2005-present)
American Society of Mammalogists (2003-present)
Texas Society of Mammalogists (2003-present)
Texas A&M University (1998-2003)
American Society of Mammalogists (2001-2003)
Texas Society of Mammalogists (1999-2003)

PROFESSIONAL WORKSHOPS ATTENDED:

NAAHP 17th National Meeting. Balancing Humanism and the Numbers: The Advising
Challenge. June 2006.
NEAAHP: "Changing Perspective: Facilitating a New Culture in the Education of Health
Care Professionals." Pittsburgh, Pennsylvania. 31 March-3 April, 2005.
Associated Colleges of the South-Science Education Reform Workshop. Millsaps College,
Jackson, Mississippi. 12-13 November, 2004.