
CURRICULUM VITAE

Margaret J. Kovach, Ph.D.
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EDUCATION:

- 1989-1995** Ph.D. Microbiology, Colorado State University, Department of Microbiology, Fort Collins, CO
Dissertation: Somatic cell genetics of mosquito cells
- 1983-1986** B.S. Microbiology, Southern Illinois University, Department of Microbiology, Carbondale, IL

PROFESSIONAL EXPERIENCE:

- 2002-Present** **Assistant Professor**, University of Tennessee at Chattanooga, Department of Biological and Environmental Sciences
Research: Molecular characterization of hearing loss in PMP22 defective mice and examination of microsatellite sequence variability in cancer progression and prognosis
- 1997-2001** **Research Instructor**, Southern Illinois University-School of Medicine, Department of Pediatrics, Division of Genetics and Metabolism
Research: Clinical and genetic characterization of rare human genetic syndromes
- 1995-1997** **Post-doctoral**, Brown University, Department of Molecular Biology, Cell Biology, and Biochemistry
Research: Molecular and structural characterization of bacteriophage λ site-specific recombination
- 1989-1995** **Pre-doctoral**, Colorado State University, Department of Microbiology
Research: Molecular characterization of the mosquito genome towards the development of efficient gene transfer vectors applicable in the generation of transgenic mosquitoes
- 1987-1989** **Research Assistant**, Southern Illinois University-School of Medicine, Department of Medical Microbiology and Immunology
Research: Development of a rabbit model for Down syndrome and a molecular assay for the detection of chromosomal aneuploidy
- 1986-1987** **Research Assistant**, Southern Illinois University-School of Medicine, Department of Medical Microbiology and Immunology
Research: Anti-idiotypic immunotherapy in the treatment and/or prevention of cancer
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RESEARCH GRANTS:

Principal Investigator:

2005-2008	NSF Course, Curriculum, & Laboratory Improvement (CCLI) Grant <i>Modernization of the Biology Curriculum through Adaptation of an Investigative Laboratory in Molecular Biology</i>	\$99,758
2004-2007	NIH Academic Research Enhancement Award (AREA) <i>Molecular pathology of deafness due to mutation in PMP22</i>	\$189,609
2003-2004	National Science Foundation (NSF# 0320715) Major Research Instrumentation (MRI) Grant <i>Acquisition of a Fluorescence Imaging System for Research in Biology, Environmental Science and Chemistry at UT Chattanooga</i>	\$95,100
2003-2004	UTC Faculty Research and Development Grant <i>Microsatellite sequence variability within transcribed regions of genes involved in cancer</i>	\$3,000
2000-2001	National Organization for Hearing Research 2000 Award <i>Characterization of Peripheral myelin protein-22 (PMP22) gene expression throughout development of the mouse inner ear and cochlea</i>	\$10,000

Co-Investigator:

2005-2006	NSF Major Research Instrumentation (MRI) Grant <i>Acquisition of a LC-MS-MS for Research in Biology, Environmental Science, and Chemistry at UT Chattanooga</i>	\$251,720
2004-2007	NIH Academic Research Enhancement Award (AREA) <i>PAH/Metal exposure and effects assessment in Chattanooga</i>	\$178,953
2001-2006	NIH NINDS Training Grant and Career Development (K02) Principal Investigator: Virginia E. Kimonis, M.D. <i>Clinical and Molecular Analysis of Neuromuscular Disorders</i>	\$546,638
2001-2004	NIH NIAMS Small Grants Program for New Investigators (R03) Principal Investigator: Virginia E. Kimonis, M.D. <i>Gene causing Paget and Limb-Girdle Muscular Dystrophy</i>	\$150,000

PROFESSIONAL AFFILIATIONS:

American Society of Human Genetics (ASHG)

Council for Undergraduate Research (CUR)

National Association of Advisors for the Health Professions (NAAHP)

Sigma Xi Research Society

SPECIAL COURSE WORK:

- Curriculum 2000 Faculty Development Workshops
Philosophy and Overview, Spring, 2000
Small Group Facilitation, Spring, 2000
- Genetic Analysis Methods for Medical Researchers, 1998, Duke University
- Biology of Disease Vectors-MacArthur Foundation Course, 1992, Colorado State University

AWARDS AND HONORS:

College of Arts and Science Outstanding Research Award (2004)

UTC Grants and Research Award (2003)
Patricia Roberts Harris Fellowship (1989-1992)