

Ralph J. Rascati

Curriculum Vitae

Associate Vice President for Academic Affairs
& Dean of University College
Kennesaw State University

Work Address

Kennesaw State University
1000 Chastain Road, Mailstop 0107
Kennesaw Hall, Rm 4443
Kennesaw, GA 30144

Work Phones: (770) 423-6023 (AA Office)
(770) 499-3550 (UC Office)
Fax Number: (770) 423-6752
Email: rrascati@kennesaw.edu

URL: <http://science.kennesaw.edu/~rrascati>
<http://www.kennesaw.edu/academicaffairs/bios/rascati.htm>

Education

1969 B.S. Biology (subfield: Genetics) Rensselaer Polytechnic Institute, Troy, New York
1975 Ph.D. Biochemistry (subfield: Genetics) University of Massachusetts, Amherst, Massachusetts

Postdoctoral Experience

1975 - 1977 Postdoctoral Investigator (Field: Virology)
Biology Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee
Research on the regulation of expression of endogenous murine retroviruses as a
measure of carcinogenic potential
1977 - 1979 Research Associate (Field: Virology)
Biology Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee
Research on the mechanisms for controlling endogenous murine retrovirus expression

Additional Training (Workshops Attended)

Assessment of Drinking Water Quality, ASM, New Orleans, LA, May 1989
Excystation of *Giardia* as a Measure of Cyst Viability, WQTC, Philadelphia, PA, Nov 1989
Recombinant DNA Methodology, Exon-Intron, Inc., Columbia, MD, Sept 9-13, 1996
PCR Methodology, Exon-Intron, Inc., Columbia, MD, Sept 16-20, 1996
cDNA Synthesis Strategies, Exon-Intron, Inc., Columbia, MD, Apr 25, 1997
RFLP Techniques, Exon-Intron, Inc., Columbia, MD, Apr 28-30, 1997
Quantitative RNA Techniques, Exon-Intron, Inc., Columbia, MD, Jun 8-12, 1998
Principles of Image Analysis, Exon-Intron, Inc., Columbia, MD, Jun 8-12, 1998
Statistics in Forensic DNA Analysis, 12th International Symposium on Human Genetic Identification,
Biloxi, MS, Oct 8-12, 2001
Case Studies in Forensic DNA Analysis, DNADiagnostics, Inc., Fairfax, VA, July 22, 2002

Employment History (most recent first)

July 2006 – Present	Dean of University College
Oct 2002 – Present	Associate Vice President for Academic Affairs
1998 – Oct 2002	Chair, Department of Biology & Physics
1997 – 1998	Interim Chair, Department of Biology & Physics
1991 – Present	Professor of Biology
1985 – 1991	Associate Professor of Biology Kennesaw State University Kennesaw, Georgia
1979 – 1985	Assistant Professor of Microbiology Department of Biological Sciences Illinois State University Normal, IL

Additional Current Major Responsibilities @ Kennesaw State University

University Space Coordinator
American Democracy Project – Campus Coordinator
Political Engagement Project – Campus Coordinator
University Advising Council – Coordinator
General Education Council – Coordinator
Retention, Progression and Graduation (RPG) Initiative – Campus Coordinator

Recent National/International Activities

V. Coombs, **R.J. Rascati** & P. Bartelt; **Science Education in the 21st Century**; Panel Discussion at the AASCU Academic Affairs Winter Meeting, Feb 4-7, 2006, Charleston, SC

R.J. Rascati, Roundtable Discussion Leader on “Science in General Education” at the AAC&U Pre-Conference Symposium entitled: “Recentering: Science & Global Learning at the Core”, 92nd Annual Meeting of the AAC&U, Jan 25-28, 2006, Washington, DC

L.I. Peterson, **R.J. Rascati**, B. Cunningham & D. Brakke; **What It Means to be Liberally Educated in the Sciences in the 21st Century: Making society more comfortable with science and making scientists more comfortable with society**. Panel Discussion at the Annual Meeting of the Council of Colleges of Arts and Science (CCAS); Nov 2-5, 2005, Vancouver, BC, Canada

Project Kaleidoscope (PKAL)/NSF Regional Conversations on “What It Means to be Liberally Educated in the Sciences in the 21st Century: Making scientists at home in society and making society at home with science” – I organized and hosted at KSU one of several regional conversations on this topic to help NSF determine funding priorities in this area in the coming years.

AASCU Graduation Rates Study – Study Team Leader; conducted a site visit (March, 2005) to Louisiana Tech University, one of 12 AASCU campuses that have been identified as successful in increasing and/or maintaining high retention and graduation rates in order to prepare recommendations for other AASCU institutions; Prepared site visit report and contributed to national report summarizing and analyzing findings at the 12 institutions. (Reports available upon request)

Rascati, R.J., Betty L. Siegel, Lendley C. Black, Nancy King & Mary Lou Frank. 2005. **The Promised Land Is Not A Place But A Process; The Development Of A University College**; Institutional Initiative Session at the Annual Conference on The First-Year Experience. February 4-8, 2005, Phoenix, AZ

Project Kaleidoscope (PKAL) Leadership Initiative Institute: Leadership in building a learning environment for Science, Technology, Engineering & Mathematics that ensures the success of all students – Invited Facilitator/Presenter/Team Leader, Atlanta, GA, Nov 12-14, 2004

Professional Affiliations & Honor Societies (Present)

Phi Kappa Phi (PKP) Honor Society
Association of Deans & Directors of University Colleges
American Council of Academic Deans (ACAD)
Association of American Colleges & Universities (AAC&U; Institutional representative)
Council on Undergraduate Research (CUR; Institutional Representative)
Georgia Biomedical Partnership
Lake Allatoona Preservation Authority (LAPA) – Scientific Advisory Board
Sigma Xi – the Research Society

Professional Affiliations (Past)

American Society for Microbiology (ASM)
National Science Teachers Association (NSTA)
Georgia Science Teachers Association (GSTA)
Association for Biology Laboratory Education (ABLE)
Georgia Academy of Sciences (GAS)
Genetics Society of Georgia (GSG)
National Association of Biology Teachers (NABT)
American Institute for Biological Sciences (AIBS)

Honors and Awards

2000 Finalist (Runner-Up) for the College of Science & Mathematics Distinguished Service Award

2002 Recipient of the Rod Nave Award from the Southeastern Association for the Education of Teachers of Science (SAETS) as an “Outstanding Friend to Science Teachers”

Workshops Presented/Facilitated

Biotech 2K2 – A Workshop in Biotechnology for High School Teachers – Funded by an Eisenhower Grant, Kennesaw State University, Kennesaw, GA, June 3-7, 2002 (CoPresenter – Dr. Michael Dias)

DNA Profiling by Multiplex PCR Amplification and Genotype Determination by Reverse Dot-Blot Hybridization to Sequence-Specific Oligonucleotide Probes - A workshop presented at the 24th Annual ABLE (Association for Biology Laboratory Education) Conference, June 11-14, 2002, Louisiana State Univ, Baton Rouge, LA

Biotech 2K2 – A Workshop in Forensic Biotechnology for South Cobb High School Students – Kennesaw State University, Kennesaw, GA, June 17-28, 2002

Peer-Reviewed Publications

Rascati, R.J., 2003, DNA Profiling by Multiplex PCR Amplification and Genotype Determination by Reverse Dot-Blot Hybridization to Sequence-Specific Oligonucleotide Probes, In: M. O'Donnell, (editor) *Tested Studies for Laboratory Teaching: Proceedings of the 24th Annual ABLE (Association for Biology Laboratory Education) Conference, June 11-14, 2002, Louisiana State Univ, Baton Rouge, LA.* 24 pp. 173-190

Bevilacqua, V.L., J.L. Powers, D. L. Vogeliën, **R. J. Rascati**, M. Hall, K. Diehl, C. Tran, S. S. Jain, and R. Chabayta., 2002, Collaboration Between Chemistry and Biology to Introduce Spectroscopy, Electrophoresis, and Molecular Biology as Tools for Biochemistry, *J.Chem Ed.* 79:11 pp. 1311-1313

Rascati, R.J., 2002, A Paternity Testing Laboratory Simulation Exercise, *The American Biology Teacher* 64:3 pp. 212-218

Rascati, R.J., 2002, Canine Paternity Testing: Using Personal Experiences to Teach Science, *The American Biology Teacher*, 64:1 pp. 40-43.

Rascati, R.J. Student Study Guide to Accompany **Microbiology** by Prescott, Harley, and Klein. Wm. C. Brown Publishers, Dubuque, IA
1990 - First Edition
1993 - Second Edition (revised)
1996 - Third Edition (revised)
1999 - Fourth Edition (revised)

Rascati, R.J. Instructor's Manual to Accompany **Microbiology** by Prescott, Harley, and Klein. Wm. C. Brown Publishers, Dubuque, IA
1990 - First Edition
1993 - Second Edition (revised)
1996 - Third Edition (revised)
1999 - Fourth Edition (revised)

Dirnberger, J.M., **R.J. Rascati**, and H. Msimanga. 1993. A Clean Lakes Phase I - Diagnostic/Feasibility Study of Lake Allatoona: A Preliminary Report. Proceedings of the 2nd Annual Southeastern Regional Lakes Management Conference.

Dirnberger, J.M., **R.J. Rascati**, and H. Msimanga. 1993. A Clean Lakes Phase I - Diagnostic/Feasibility Study of Lake Allatoona: A Preliminary Report. Proceedings of the 1993 Georgia Water Resources Conference, pp. 89-92.

Rascati, R.J. 1991. Team Research Courses as a Means of Providing Undergraduate Research Experience. CUR Newsletter, Sept 1991, pp. 65-70.

Rascati, R.J. 1988. Detection of *Giardia lamblia* in Drinking Water Supplies. The Georgia Operator 25(1):14,49-53.

- Rascati, R.J.** 1988. Effects of Cytidine Analogs on DNA Methylation and Retrovirus Gene Expression. *Mutat. Res. Letters* 208:21-25.
- Rascati, R.J.** and M. McNeely*. 1983. Induction of Retrovirus Gene Expression by Aflatoxin B₁ and 2-Acetylaminofluorene. *Mutat. Res. Letters* 122:235-241.
- Rascati, R.J.** 1983. Induction of Endogenous Murine Retrovirus by Chemical Carcinogens. In: *Application of Biological Markers to Carcinogen Testing*. H.A. Milman and S. Sell (eds.), Plenum Press, New York, p. 498.
- Rascati, R.J.** 1983. Induction of Retrovirus Gene Expression by Selenium Compounds. *Mutat. Res.* 117:67-68.
- Tennant, R.W., J.A. Otten, F.E. Myer and **R.J. Rascati**. 1982. Induction of Retrovirus Gene Expression by Some Chemical Mutagens. *Cancer Research* 42:3050-3055.
- Rascati, R.J.**, J.A. Otten, A. Brown, J.E. Hannan, W.K. Yang, and R.W. Tennant. 1981. Characterization of Fv-1 Gene Product Mediated Resistance Transfer. *Intervirology* 15:87-97.
- Tennant, R.W. and **R.J. Rascati**. 1980. Mechanisms of Cocarcinogenesis Involving Endogenous Retroviruses. In: *Modifiers of Chemical Carcinogenesis*. T.J. Slaga (ed.), Raven Press, New York, pp. 185-205.
- Tennant, R.W., W.K. Yang, **R.J. Rascati** and A. Brown. 1979. Specific Cell RNA Mediators and the Mechanism of Fv-1 Gene Restriction. In: *Oncogenic Viruses and Host-Cell Genes*. Y. Ikawa and T. Odaka (eds.), Academic Press, New York, pp. 21-37.
- Rascati, R.J.** and R.W. Tennant. 1979. Involvement of DNA Damage in the Induction of Endogenous Murine Retrovirus. *Virology* 94:273-281.
- Rascati, R.J.** and P. Parsons. 1979. Purification and Properties of Cytochrome c Oxidase from Rat Liver Mitochondria. *J. Biol. Chem.* 254:1586-1593.
- Rascati, R.J.** and P. Parsons. 1979. Biosynthesis of Cytochrome c Oxidase by Isolated Rat Liver Mitochondria. *J. Biol. Chem.* 254:1594-1599.
- Rascati, R.J.** and R.W. Tennant. 1978. Induction of Endogenous Murine Retrovirus by Hydroxyurea and Related Chemicals. *Virology* 87:208-211.
- Yang, W.K., R.W. Tennant, **R.J. Rascati**, J.A. Otten, B. Schluter, J.O. Kiggans, F.E. Myer and A. Brown. 1978. Transfer of Fv-1 Locus-Specific Resistance by Cytoplasmic RNA. *J. Virol.* 27:288-289.
- Tennant, R.W., **R.J. Rascati**, and G.C. Lavelle. 1977. Mechanisms in Endogenous Leukemia Virus Induction by Radiation and Chemicals. In: *Symposium on Radiation Induced Leukemogenesis and Related Viruses*. J.F. Duplan (ed.), North Holland Publishing Company, Amsterdam, pp. 179-188.

Non-Peer-Reviewed Publications

R.J. Rascati, 2003-2006. TFT (Toy Fox Terrier) Genetics (A series of articles on genetics for breeders of Toy Fox Terriers and other purebred dogs) – published in the *TFT Times* and in *The Toy Fox Terrier: Wired for Action* by Dr. John Davidson

Article Titles

Part 1 – Basic Principles of Genetics

Part 2 – Congenital Hypothyroidism with Goiter (CHG) in TFTs: To Test or Not to Test – That is the Question

Part 3 – Canine Genetic Disorders: Demodectic Mange; Legg-Calve Perthees; von-Willebrands Disease

Part 4 – Canine Genetic Disorders: Patellar Luxation; Progressive Retinal Atrophy; Autoimmune Thyroiditis

Part 5 – Coat Color in Toy Fox Terriers

Recent Abstracts & Presentations (27 others from 1973-1984) * = Student Co-authors

V. Coombs, **R.J. Rascati** & P. Bartelt; (2006) **Science Education in the 21st Century**; Panel Discussion at the AASCU Academic Affairs Winter Meeting, Feb 4-7, 2006, Charleston, SC

L.I. Peterson, **R.J. Rascati**, B. Cunningham & D. Brakke; (2005) **What It Means to be Liberally Educated in the Sciences in the 21st Century: Making society more comfortable with science and making scientists more comfortable with society**. Panel Discussion at the Annual Meeting of the Council of Colleges of Arts and Science (CCAS); Nov 2-5, 2005, Vancouver, BC, Canada

Rascati, R.J., Betty L. Siegel, Lendley C. Black, Nancy King & Mary Lou Frank. 2005. **The Promised Land Is Not A Place But A Process; The Development Of A University College**; Institutional Initiative Session at the Annual Conference on The First-Year Experience. February 4-8, 2005, Phoenix, AZ

Rascati, R.J. 2002. DNA Profiling by Multiplex PCR Amplification and Genotype Determination by Reverse Dot-Blot Hybridization to Sequence-Specific Oligonucleotide Probes; Abstract for the workshop presented at the 24th Annual ABLE (Association for Biology Laboratory Education) Conference, June 11-14, Louisiana State Univ., Baton Rouge, LA (see workshops above)

Roberts, Jennifer* & **Ralph J. Rascati**, 2001. "Transcription of P-Glycoprotein" presented at the Annual Meeting of the Georgia Academy of Science, Brunswick, GA, March 23-24

Rascati, R.J. 1996. Team Research Courses as a Means of Providing Undergraduates with Research Experiences. 96th General Meeting of the American Society for Microbiology in a Round Table Discussion entitled "Effective Strategies for Providing Undergraduates with Research Experiences"; May 19-23, New Orleans, LA. (Invited Speaker)

Rascati, R.J. 1995. Collaborative Learning & Critical Thinking Skills in Biology: A Gradual Approach. 15th Lilly Conference on College Science Teaching, Nov 17-19, Miami University, Oxford, OH.

Rascati, R.J. 1995. Providing Undergraduates with Research Experience Through the Use of Team Research

Courses. 1st Lilly Conf on College Science Teaching - South, June 2-4, Columbia, SC.

Rascati, R.J. 1994. Research at the Undergraduate Level: The Use of Team Research Courses as a Means of Providing Undergraduates with Research Experiences. 94th General Meeting of the American Society for Microbiology, May 23-27, Las Vegas, NV.

Dirnberger, J.M., H. Msimanga, and **R.J. Rascati**. 1993. Clean Lakes Phase I Diagnostic/Feasibility Study of Lake Allatoona - A Preliminary Report. Georgia Water Resources Conference, April 21-22, Athens, GA

Dirnberger, J.M., H. Msimanga, and **R.J. Rascati**. 1993. Clean Lakes Phase I Diagnostic/Feasibility Study of Lake Allatoona - A Preliminary Report. 2nd Annual Southeastern Regional Lakes Management Conference, March 21- 23, Chattanooga, TN

Lester, A. and **R.J. Rascati**. 1991. Liver Cytochrome Oxidase Activity of Shell-less Chick Embryos. 2nd Annual Georgia University System Symposium. May 17-19, Augusta, GA

Lester, A. and **R.J. Rascati**. 1991. Liver Cytochrome Oxidase Activity of Shell-less Chick Embryos. Annual Meeting of the Georgia Academy of Science, Mar 19-21, Macon, GA

Rascati, R.J. 1989. Analysis of Drinking Water Supplies for the presence of *Giardia lamblia*. 58th Annual GA Water & Pollution Control Association Conference, August 13-16, Atlanta, GA

Rascati, R.J. 1989. Detection of *Giardia lamblia* in Water Samples. 89th Annual Meeting of the American Society for Microbiology, May 14-18, New Orleans, LA

Bickham, L.K*., E.L. DiGiammarino*, and **R.J. Rascati**. 1989. Detection of *Giardia lamblia* in Recreational and Drinking Water Supplies. 3rd National Conference on Undergraduate Research, April 27-29, San Antonio, TX

Rascati, R.J. 1987. *Giardia* Detection - Traditional vs. New Techniques. 56th Annual Georgia Water & Pollution Control Conference, August 16-19, Jekyll Island, GA

Rascati, R.J. 1987. *Giardia* Detection - Traditional vs. New Techniques. 6th Annual Laboratory Symposium, Georgia Water & Pollution Control Association, June 15, Decatur, GA

Rascati, R.J. 1986. Development of a Rapid and Sensitive Assay Procedure for the Detection of the Protozoan Parasite, *Giardia lamblia* in Drinking Water Supplies. U.S. Air Force Occupational and Environmental Health Laboratory, August 14, Brooks AFB, San Antonio, TX

Grants and Contracts

2006 Funds for Improvement of Post-Secondary Education (FIPSE), Department of Education; Partnered with Utah Valley State College and Eastern Oregon University. Loretta Palmer, UVSC, PI., Ralph J. Rascati, KSU, CoPI, *Developing Synergistic Connections Among Discrete Engaged-Learning Efforts*. \$598,880 (submitted; being reviewed)

2002 Higher Education Competitive Funds in Science and Mathematics (Eisenhower Act for the Improvement of Mathematics and Science Teaching) R.J. Rascati and M. Dias, CoPDs;

BioTech 2K2: A Workshop in Biotechnology for High School Teachers, \$18,722 (funded)

- 2000-2001 USG Professional Development Grant (awarded to Biology & Chemistry Academic Advisory Committees; Principal Author & Workshop Coordinator: Ralph J. Rascati). Funds to organize and hold a workshop entitled "*The Teaching of Science: New Approaches*", \$21,500 (funded)
- 1999-2001 NSF/CCLI Grant (CoPI; Vicky Bevilacqua, PI); *Integrating Current Technology Across the Biochemistry Curriculum*, \$45,053 (funded)
- 1998-1999 Kennesaw State University, College of Science & Mathematics; Mentor-Protégé Research Grant; *Quantification of P-Glycoprotein mRNA Transcription by Competitive RT-PCR*, \$1,863 (funded)
- 1997-1998 Kennesaw State University, College of Science & Mathematics; Mentor/Protégé Research Grant; *PCR Amplification as a Method for Determining Evolutionary Relationships*, \$1,700 (funded)
- 1997 University System of Georgia, Teaching & Learning Grants, Individual Professional Development Grant to attend workshops on "*Protein Techniques*" and on "*Principles of Image Analysis*", \$1,660 (funded)
- 1997 Kennesaw State University, Grant Writers Support Program (1 course release; Spring 1997) to prepare proposal for NSF-CCD Program (funded)
- 1992-1993 U.S. EPA Clean Lakes Phase I Diagnostic Feasibility Study of Lake Allatoona, Co-Principal Investigator, \$250,000 (funded)
- 1988-1990 NIH/AREA Grant; Detection of the Waterborne Pathogen, *Giardia lamblia*, Principal Investigator, \$50,000 (funded)
- 1987-1988 USAF/AFOSR/Universal Energy Systems, Inc., Research Initiation Program Grant, Development of a Rapid and Sensitive Assay System for the Detection of *Giardia lamblia* in Drinking Water Supplies, Principal Investigator, \$20,000 (funded)
- 1986 USAF/AFOSR/Universal Energy Systems, Inc., Summer Faculty Research Fellowship, Development of a Rapid and Sensitive Assay System for the Detection of *Giardia lamblia* in Drinking Water Supplies, Brooks AFB, San Antonio, TX - \$9,261 (funded)
- 1979-1985 Faculty Research Grants and Summer Research Awards, Illinois State University, Normal, IL (funded)
- 1975-1977 Oak Ridge National Laboratory Postdoctoral Investigator, Biology Division, Oak Ridge National Laboratory, Oak Ridge, TN (funded)

Consulting Activities

- 2001-present Consultant for Attorneys on Forensic DNA Analysis
- 1992-1993 Training consultant for the Lake Allatoona Citizens Water Quality Monitoring Project.
- 1991-1992 Consultant for Enforcer Products, Inc., Cartersville, GA (product testing).
- 1990-1991 Consultant for the University of Tennessee - Knoxville, Microbiology Department (design/review of an assessment exam to assess the effectiveness of their program)
- 1986-1989 Consultant for the U.S. Air Force for the detection of *Giardia lamblia* in drinking water supplies.
- 1986-1987 Consultant for the U.S. Air Force for determination of microbiological causes of foaming in wastewater treatment activated sludge tanks.