

CURRICULUM VITAE

University of Kentucky

College of Dentistry

Center for Oral Health Research

Name: Karen Faye Novak

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College of Dentistry
Center for Oral Health Research
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EDUCATION and TRAINING:

UNDERGRADUATE:

Dates Attended	Name and Location of Institution	Degree Received and Year	Major Subject
1974-1978	University of North Carolina at Chapel Hill	B.S., 1978	Dental Hygiene

GRADUATE:

Dates Attended	Name and Location of Institution	Degree Received and Year	Major Subject
1978-1982	University of North Carolina at Chapel Hill	D.D.S., 1982	Dentistry

POST-GRADUATE:

Dates Attended	Name and Location of Institution	Degree Received and Year	Major Advisor and and
1986-1989	University of Rochester, Rochester, N.Y.	M.S., 1989	Dr. William Bowen Cariology
1989-1994	University of Texas Health Health Science Center at San Antonio	Ph.D., 1994	Dr. Donald LeBlanc Microbiology
1990-1992	University of Texas Health Health Science Center at San Antonio	Certificate, 1992	Periodontics
1999-2001	University of Pittsburgh School of Education	MEd Higher Education Administration - Incomplete	

APPOINTMENTS and POSITIONS

ACADEMIC:

Years Inclusive	Name and Location of Institution of Organization	Rank/Title
1994-1995	Department of Periodontics University of Texas Health Science Center at San Antonio	Assistant Professor
1995-1996	Department of Microbiology/Biochemistry Department of Periodontics University of Pittsburgh School of Dental Medicine	Assistant Professor
1997-2001	Department of Dental Public Health Department of Periodontics University of Pittsburgh School of Dental Medicine	Assistant Professor
1999-2000	Department of Periodontics University of Pittsburgh School of Dental Medicine	Director - Predoctoral Periodontics
1999-2001	University of Pittsburgh School of Dental Medicine	Associate Director - Student Services

2001-pres	Division of Periodontics Center for Oral Health Research University of Kentucky College of Dentistry	Associate Professor
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NON-ACADEMIC:

Years Inclusive	Name and Location of Institution of Organization	Rank/Title
1982-1986	Private Practice, Lexington Park, MD	Associate Dentist
1986-1987	Hospital Practice, Strong Memorial Hospital, Rochester, N.Y.	Dentist
1983-1989	United States Naval Reserves	Lieutenant/Active
1989-1994	United States Naval Reserves	Lieutenant Commander/ Inactive

CERTIFICATION and LICENSURE:

SPECIALTY CERTIFICATION:

Certifying Board	Year
American Board of Periodontology - Board Eligible	1992
American Board of Periodontology - Board Certified	1998

PROFESSIONAL LICENSURE:

Licensing Board/State	Year
Northeast Regional Boards	1982
Maryland	1982
North Carolina	1983
New York	1986
Pennsylvania	1996
Kentucky	2001

MEMBERSHIP in PROFESSIONAL and SCIENTIFIC SOCIETIES

Organization	Year
American Dental Association	1978-present
International Association for Dental Research	1986-present
American Academy of Periodontology	1992-present
American Dental Education Association	1994-present
Pennsylvania State Dental Association	1996-present
Kentucky State Dental Association	2001-pres

HONORS

Title of Award	Year
Phi Eta Sigma, Freshman National Honor Society, University of North Carolina at Chapel Hill	1974
Sigma Phi Alpha, National Dental Hygiene Honor Society University of North Carolina at Chapel Hill	1978
Department of Dental Ecology Student Award, University of North Carolina at Chapel Hill	1979
Department of Periodontics Student Award, University of North Carolina at Chapel Hill	1982
NIDR Cariology Training Grant University of Rochester, Rochester, NY.	1986-1989
NIDR Dentist Scientist Award University of Texas Health Science Center at San Antonio, San Antonio, Texas	1989-1994
Nominee for the Tom Slick Department of Microbiology, Graduate Fellow Award University of Texas Health Science Center at San Antonio, San Antonio, Texas	1993
Outstanding Faculty Member, First Professional Class of 1999	1997
American Student Dental Association Faculty Award of Excellence	2000

Student Honors

Research Mentor for Jaleh Pourhamidi, First Professional Student at the University of Pittsburgh School of Dental Medicine, who received the following awards:

Best poster presentation - University of Pittsburgh School of Dental Medicine Professional Practice Update	1997
Hinmann Scholarship Award	1997
AADR Student Research Fellowship	1997
Hinmann Scholarship Award	1998
American Association of Women Dentists/Colgate-Polmolive Award for Excellence in Academics and Research	1998
ADA/Dentsply Student Clinician Program - Basic Science and Research - Third Place	1998

Research Mentor for Brian Dorfmann, First Professional Student at the University of Pittsburgh School of Dental Medicine, who received the following award:

AADR Student Research Fellowship	1998
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Research Mentor for Moris Aynechi, First Professional Student at the University of Pittsburgh School of Dental Medicine, who received the following award:

AADR Student Research Fellowship	1998
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Research Mentor for Cindy Sclater, First Professional Student at the University of Pittsburgh School of Dental Medicine, who received the following award:

AADR Student Research Fellowship	1999
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Research Mentor for Manuel Pelaez, First Professional Student at the University of Pittsburgh School of Dental Medicine, who received the following award:

Hinmann Scholarship Award	2001
University of Pittsburgh School of Dental Medicine Research Award	2001

PUBLICATIONS

1. Refereed Articles

Bowen, WH, KM **Madison**, and SK Pearson: Influence of desalivation in rats on incidence of caries in intact cagemates. *J Dent Res* 67: 1316-1318, 1988.

Madison, KM, WH Bowen, SK Pearson, and DA Young: Effect of desalivation and age on susceptibility to infection by *Streptococcus mutans*. *Caries Res* 23: 70-74, 1989.

Madison, KM, WH Bowen, SK Pearson, and JL Falany: Caries incidence in intact rats infected with *Streptococcus sobrinus* via transmission from desalivated cagemates. *J Dent Res* 69: 1154-1159, 1990.

Madison, KM, WH Bowen, SK Pearson, and JL Falany: Enhancing the virulence of *Streptococcus sobrinus* in rats. *J Dent Res* 70: 38-43, 1991.

Novak, KF, and DJ LeBlanc. Characterization of Plasmid pVT745 Isolated from *Actinobacillus actinomycetemcomitans*. *Plasmid* 31: 31-39, 1994.

Novak, KF, LN Lee and DJ LeBlanc: Functional Analysis of pVT745, a Plasmid from *Actinobacillus actinomycetemcomitans*. *Oral Microbiology and Immunology* 13: 124-128, 1998.

Novak, KF, Nonnemacher, MR and Pourhamidi, J. Molecular Characterization and Functional Analysis of a *secA* Gene Homolog in *Actinobacillus actinomycetemcomitans*. *Microbiology and Immunology* 44:143-148, 2000.

Galli, DM, Chen, J, **Novak**, **KF** and LeBlanc, DJ. Nucleotide Sequence and Analysis of Conjugative Plasmid pVT745. *J Bact* 183: 1585-1594, 2001

Novak, **KF**, Dougherty, BA Pelaez, M. *Actinobacillus actinomycetemcomitans* Harbors Type IV Secretion System Genes on a Plasmid and in the Chromosome. *Microbiology*. 147:3027-3035, 2001.

Whitehead, AW, **Novak**, **KF** and Close, JM. Identification of factors influencing matriculation decisions by dental school applicants. *J Dent Edu* 66:62-67. 2002

In Preparation:

Novak **KF** and Dougherty, BA. Characterization of *Actinobacillus actinomycetemcomitans* Strains Harboring Type IV Secretion System Genes. .

Novak **KF**, Whitehead AW and Close JM. Perceived Importance of Diversity Exposure and Training in Dental Education.

Kirakodu S. and **Novak** **KF** and Kirakodu S. Transcriptional Analysis of Type IV Secretion System Genes in *Actinobacillus actinomycetemcomitans*.

Huang C, Novak KF and Wurth B. Techniques for Molecular Genotyping of Periodontal Pathogens.

2. Reviews

Novak, MJ, and **Novak, KF**. Early Onset Periodontitis. Current Opinion in Periodontology, Eds: RC Williams, RA Yukna, MG Newman, Current Science, Philadelphia, PA.3:45-58, 1996

3. Book Chapters

Goodman, SF, and **Novak, KF**. Determination of Prognosis. In: Clinical Periodontology 9th edition, Eds: MG Newman, FACarranza, and HH Takei. WB Saunders 2002

Nagy,RJ and **Novak, KF**. Aggressive Periodontitis. In: Clinical Periodontology 9th edition, Eds: MG Newman, FACarranza, and HH Takei. WB Saunders 2002

Novak, MJ and **Novak, KF**. Smoking and Periodontal Disease. In: Clinical Periodontology 9th edition; Eds. MG Newman, FA Carranza, and HH Takei. WB Saunders 2002

Novak, KF and Novak, MJ. Risk Assessment. In: Clinical Periodontology 9th edition; Eds. MG Newman, FA Carranza, and HH Takei. WB Saunders 2002

Guthmiller, JM and **Novak, KF**. Periodontal Disease. In: Polymicrobial Diseases. 1st edition; Eds. KA Brogden and JM Guthmieer. ASM Press. 2002

4. Published abstracts

Madison, KM, WH Bowen, SK Pearson, and DA Young: Effect of desalivation and age on susceptibility to infection by Streptococcus mutans. J Dent Res 66: Abst. 1262, 1987.

Bowen, WH, KM **Madison**, and SK Pearson: Influence of desalivation in rats on the incidence of caries in intact cagemates. J Dent Res 67: Abst. 1848, 1988.

Pearson, S, WH Bowen, and K **Madison**: Residual effects of fluoride on a severe cariogenic challenge in rats. J Dent Res 67: Abst. 1840, 1988.

Madison, K, W Bowen, and S Pearson: Effect of desalivation on caries incidence in intact cagemates. J Dent Res 68: Abst. 312, 1989.

Bowen WH, SW Meitner, KM **Madison**, SK Pearson, and CG Haidaris: Effect of desalivation on the transmission of Candida albicans. J Dent Res 69: Abst, 2132, 1990.

Madison, KM, and DJ LeBlanc: Characterization of Actinobacillus actinomycetemcomitans homology between plasmid and chromosomal DNA. J Dent Res 72: Abst 1292, 1992.

Novak, KF and DJ LeBlanc: Localization of homology between Actinobacillus actinomycetemcomitans genomic and extrachromosomal DNA. J Dent Res.,72: Special Issue, Abst. 118, 1993.

Novak, KF and DJ LeBlanc: Characterization of plasmid pVT745 isolated from Actinobacillus actinomycetemcomitans. J Dent Res 73: Special Issue, Abst 2182, 1994.

Novak, KF, LN Lee, and DJ LeBlanc: Sequence homology between pVT745 and A. actinomycetemcomitans chromosomal DNA. J. Dent. Res. 74: Special Issue Abst. 1485, 1995 .

Novak, KF and Rodriguez, AM. Identification of a Potential Transport Operon in Actinobacillus actinomycetemcomitans. J. Dent. Res. 75: Special Issue Abst. 2406, 1996.

Nonnemacher, M., J. Pourhamidi and **K Novak**: Identification of a *secA* Gene Homolog in A. actinomycetemcomitans. J. Dent. Res. 76: Special Issue Abst. 1684, 1997.

Johns, LP, **K Novak**, J Close, J Novak: Enhancement of Student Knowledge of Periodontics by Case-Based Learning. J. Dent. Res. 76: Special Issue Abst. 236, 1997.

Pourhamidi, J, Nonnemacher, M, **Novak, K**: Molecular Characterization of a *secA* Gene Homolog in Actinobacillus actinomycetemcomitans. J. Dent. Res. 77: Special Issue Abst. 277, 1998.

Novak, K, Nonnemacher: Identification of Potential Transport Genes in Actinobacillus actinomycetemcomitans. J. Dent. Res. 77: Special Issue Abst. 278, 1998.

Aynechi, M, Nonnemacher, M, **Novak, K**: Evaluation of Actinobacillus actinomycetemcomitans Binding to Fibronectin. J. Dent. Res. 78: Special Issue Abst. 1219, 1999.

Novak, K. F., Nonnemacher, M. R., Liu, Y.: Molecular Characterization of a Potential Aa Type V Secretion System. J. Dent. Res. 78: Special Issue Abst 1227, 1999.

Dorfmann, B.J., Liu, Y, **Novak, K.F.**: Evaluation of Streptococcal Protocols in the Electroporation of Peptostreptococcus micros. J. Dent. Res. 78: Special Issue Abst 2511, 1999.

Novak, K.F., Dougherty, B.A., Pelaez, M. Functional Analyses of Type IV Secretion Genes in Actinobacillus actinomycetemcomitans. J. Dent. Res. 80:Special Issue Abst 362, 2001.

Novak, K.F., Dougherty, B.A., Sclater, C. Analysis of Actinobacillus actinomycetemcomitans Strains Harboring Type IV Secretion Genes. J. Dent. Res. 80:Special Issue Abst 365, 2001.

Novak, K.F., Etessami, K., Dougherty, B.A. Evidence for Genetic Heterogeneity in *secB* Genes from Actinobacillus actinomycetemcomitans. J. Dent. Res. 80:Abst 363, 2001.

Whitehead, A.W., **Novak, K.F.**, Close, J.M. Identification of Factors Influencing Matriculation Decisions by Dental School Applicants. J. Den. Edu. 66:Abst106, 2002.

Novak, K.F., Whitehead, A.W., Close, J. M. Perceived Importance of Diversity Exposure and Training in Dental Education. J. Den. Edu. 66:Abst149, 2002.

5. Other publications

Masters Thesis

Madison, KM. Influence of Desalivation of Rats on the Virulence of Streptococcus sobrinus. Department of Dental Research, University of Rochester, Rochester, NY. 1989.

Ph.D. Thesis

Novak, KF. Characterization of Plasmid pVT745 Isolated from Actinobacillus actinomycetemcomitans. Department of Microbiology, University of Texas Health Science Center at San Antonio, TX. 1994.

PROFESSIONAL ACTIVITIES

TEACHING

Classroom/Laboratory:

University of Rochester and Eastman Dental Center:

Lecturer/Tutor

1989-1990 Cariology Lecture Series (1 hour)

University of Texas Health Science Center at San Antonio:

Lecturer/Tutor:

1990-1991 Teaching Assistant, Medical and Dental Microbiology.

1993-1994 Teaching Assistant, Dental Hygiene Medical Microbiology

1993-1994 Senior Periodontics Lecture Series (1 hour)

1994 Sophomore Instrumentation Laboratory, Undergraduate

1994 Junior Surgery Laboratory, Undergraduate

1995 Freshman Periodontics Lecture Series (2 hours)

Clinical Teaching:

1995 Sophomore Undergraduate Clinic in Periodontics

1994-95 Junior Undergraduate Clinic in Periodontics

1993-95 Senior Undergraduate Clinic in Surgical Periodontics

University of Pittsburgh School of Dental Medicine

Didactic - Predoctoral

Course Director:

- 1996-1998 Second Year Dental Hygiene: Principles of Periodontics
- 1996-pres Sophomore Periodontics: Periodontology II
- 1996-pres Sophomore Periodontics: Periodontology III

Lecturer:

- 1996 Freshman Periodontics: Periodontology I
- 1996-2001 Second Year Dental Hygiene: Principles of Periodontics
- 1996-2001 Sophomore Periodontics: Periodontology II
- 1996-2001 Sophomore Periodontics: Periodontology III
- 1996-2001 Junior Periodontics: Periodontology IV
- 1996-2001 Sophomore Dental Microbiology
- 1997 Senior Periodontics: Periodontology VI
- 1998-2001 Junior Periodontics: Periodontology V
- 1998-2001 Freshmen: Introduction to Clinical Dentistry
- 1999 Senior National Dental Board Part II Review Course

Didactic - Post-Doctoral

Lecturer:

- 1996 Pathobiology II
- 1996-1999 Graduate Periodontics Literature Review Seminar

Preclinical Teaching:

- 1996 Sophomore Preclinical Periodontics - 33 hours
- 1997 Sophomore Preclinical Periodontics - 24 hours

1998 Sophomore Preclinical Periodontics - 20 hours
1999 Sophomore Preclinical Periodontics - 20 hours
Freshman Preclinical Periodontics - 15 hours

Clinical Teaching:

1996 Clinical Periodontics - 30% effort
1997 Clinical Periodontics - 30% effort
1998 Clinical Periodontics - 30% effort
1999 Clinical Periodontics - 20% effort
2000 Clinical Periodontics - 20% effort
2001 Clinical Periodontics – 20% effort

University of Kentucky College of Dentistry

Didactic Lecturer

Pre-Doctoral

2001 Periodontics III PER830 (2 hours)
2001 Immunity, Infection and Disease – Facilitator for Case Discussion (3 hours)
2002 Oral Biology 829 (1 hour)
2002 Periodontics II PER820 (8 hours)
2002 Systemic Antibiotics – Facilitator for Case Discussion (2 hours)
2003 Oral Biology 829 (2 hours)
2003 Molecular Mechanisms of Microbial Pathogenesis (2 hours)
Department of Microbiology PhD Students

Post-Doctoral

2001 Oral Biology OBI650 (2 hours)
2001 Periodontal Biology and Pathology PER772 (2 hours)

- 2002 Periodontal Therapy Seminar PER776 (2 hours)
- 2002 Oral Biology OBI651 (2 hours)
- 2003 Oral Biology OBI651 (2 hours)

Preclinical Teaching:

- 2002 Freshman Preclinic CDS815 (12 hours)
- 2002 Sophomore Preclinical Periodontics (PER 820) (18 hours)
- 2003 Freshman Preclinical Periodontics (PER810) (9 hours)

Instructional Development:

Formal Study to Improve Teaching Abilities:

- 1994 Teaching Skills Course, Instructional Development, UTHSCSA, August-December
- 1994 "Effective Clinical Teaching and Effective Presentation Techniques", Instructional Development, UTHSCSA, April 28-29.
- 1995 "Evaluating Student Performance in Clinical Settings", Instructional Development, UTHSCSA, January 24-25.
- 1995 "Strategies and Updates in Clinical Practice, Teaching and Research", Group Leader, Dental School Faculty Advance, May 23-24.
- 1996 "How to Hit the Ground Running", University of Pittsburgh Center for Instructional Development and Distance Learning, New Faculty Orientation, Teaching Excellence Workshop, August 30.
- 1997 "The Case for Cases", University of Pittsburgh Center for Instructional Development and Distance Learning, December 5
- 1998 "Modes of Instruction", University of Pittsburgh Masters Program in Higher Education Administration, August-December.
- 1998 "CourseInfo: PowerPoint Presentations on the Web," University of Pittsburgh Center for Instructional Development and Distance Learning, Teaching with Technology Brownbags, October 15

- 1998 “Enhancing Courses with Online Strategies,” University of Pittsburgh Center for Instructional Development and Distance Learning, Teaching Excellence Workshops, October 27
- 1999 “A Smorgasborg of Eclectic Teaching Strategies,” American Association of Dental Schools Annual Session Faculty Development Workshop
- 1999 “Developing Effective Lectures and Leading Small Group Interactions,” American Association of Dental Schools Annual Session Faculty Development Workshop
- 1999 “Integration of the Clinical Sciences with the Biomedical and Behavioral Curriculum,” American Association of Dental Schools Annual Session Section Program
- 1999 “Problem-Based Education” University of Pittsburgh School of Dental Medicine Faculty Retreat, June 4
- 2000 “Active Student Learning: Problem-Based Learning and Other Effective Active Learning Approaches,” American Association of Dental Schools Annual Session Section Program
- 2000 “Learning Clinical Skills in a Problem-Based Curriculum: The Design of Cases,” American Association of Dental Schools Annual Session Faculty Development Workshop

Instructional Materials Developed:

- 1996 University of Pittsburgh Department of Periodontics Clinic Manual

Leadership Programs:

- 1998 American Association of Dental Schools Summer Program
Career Development for Faculty Leaders, An Immersion Workshop
Santa Cruz, CA
- 2000 American Association of Dental Schools
Academic Integrity: Strategies for Building a Culture of Integrity
Boston University, Boston MA

Programs to Enhance Administrative Skills:

- 1999 “Group Dynamics”, University of Pittsburgh Masters Program in Higher Education Administration, January-May
- 1999 “Organization Development”, University of Pittsburgh Masters Program in Higher Education Administration, January-May

- 1999 “Educational Anthropology,” University of Pittsburgh Masters Program in Higher Education Administration, July-August
- 2000 “Students, Campus and Society,” University of Pittsburgh Masters Program in Higher Education Administration, January-April

Master's Theses and PhD Dissertations Directed, Membership on Supervising Committees, and Students and Fellows Supervised:

- 1993 Research Laboratory Rotation Supervisor, Ana Trevino, Department of Microbiology PhD Program.
- 1993 Research Supervisor, Kyle Yandel, Summer Undergraduate Research Fellowship Student, Department of Microbiology
- 1994 Research Laboratory Rotation Supervisor, Dr. Paul Ezzo, Department of Microbiology PhD Program.
- 1995 Summer Research Program for Minority Students Celina Muriana, St. Mary's University, San Antonio, TX. "Identification of a *secA* homolog in Actinobacillus actinomycetemcomitans"
- 1996-1998 Masters Committee Member: Dr. Charu Chandra, Department of Periodontics, University of Pittsburgh School of Dental Medicine.
- 1996-1999 Research Mentor, Jaleh Pourhamidi, First Professional Student, University of Pittsburgh School of Dental Medicine “Molecular Characterization of a *secA* Gene Homolog in Actinobacillus actinomycetemcomitans.”
- 1997-1999 Research Mentor, Brian Dorfman, First Professional Student, University of Pittsburgh School of Dental Medicine “Development of an Electroporation System for Peptostreptococcus micros.”
- 1997-1999 Research Mentor, Moris Aynechi, First Professional Student, University of Pittsburgh School of Dental Medicine “Identification and Characterization of the Fibronectin-Binding Protein(s) of Actinobacillus actinomycetemcomitans.”
- 1997-2001 Research Mentor, Cindy Sclater, First Professional Student, University of Pittsburgh School of Dental Medicine “Analysis of Actinobacillus actinomycetemcomitans Strains Harboring Type IV Secretion Genes.”
- 1999-2000 Research Mentor, Katayoun Ettesami, First Professional Student, University of Pittsburgh School of Dental Medicine “Cloning of a *secB* Gene Homolog in Actinobacillus actinomycetemcomitans.”

- 2000-2001 Research Mentor, Manuel Pelaez, First Professional Student, University of Pittsburgh School of Dental Medicine “Functional Analyses of Type IV Secretion Genes in Actinobacillus actinomycetemcomitans.”
- 2002-pres Research Mentor, Brad Wurth, Undergraduate Student, University of Kentucky, “Genetic Characterization of Periodontal Pathogens”
- 2002-pres Research Mentor, Scott Cohen, Pre-doctoral Dental Student, University of Kentucky, “Evaluation of Protein Expression in Periodontal Pathogens Grown in Serum Versus Media”
- 2002-pres Research Mentor, Tiffany Bolen, Pre-doctoral Dental Student, University of Kentucky, ”Parental Beliefs and Early Childhood Caries”
- 2002-pres Research Mentor, Casey Watkins, Undergraduate Student, University of Kentucky, ”Parental Beliefs and Early Childhood Caries”

RESEARCH:

1. FUNDED:

Grant Number	Grant Title	Role in Project and Percentage of Effort	Years Inclusive	Source
	Cariology Training Grant	Student-100%	1986-1989	NIH/NIDR
	Dentist-Scientist Award	Post-Doctoral Fellow 100%	1989-1994	NIH/NIDR
	Genetic Analysis of a Potential Virulence Factor Secretion Gene from <u>Actinobacillus actinomycetemcomitans</u>	PI-50%	3/95-2/96	UTHSC-SA IRG
DE11581	Genetic Analysis of a Secretion Gene from <i>Aa</i> .	PI - 20%	9/95-6/97	NIH/NIDR
	Identification of a <i>secA</i> Gene Homolog in <i>Aa</i>	PI	7/96-6/98	University of Pittsburgh CRDF
	Functional Analysis of a Secretion Gene from <i>Aa</i>	PI - 20%	6/96-6/97	University of Pittsburgh CMRF

DE12220	Molecular Analyses of a Potential Transport Operon In <i>Aa</i>	PI - 50%	5/97-4/03	NIH/NIDR R29
	Molecular Characterization of a <i>secA</i> Gene Homolog in <u><i>Actinobacillus actinomycetemcomitans</i></u>	Student Mentor	5/97-4/98	AADR
	Identification and Characterization of the Fibronectin-Binding Protein(s) <u><i>Actinobacillus actinomycetemcomitans</i></u>	Student Mentor	5/98-4/99	AADR
	Development of an Electroporation System for <u><i>Peptostreptococcus micros</i></u>	Student Mentor	5/98-4/99	AADR
	Identification of <u><i>Actinobacillus actinomycetemcomitans</i></u> Strains Harboring a Potential Type IV Secretion System	Student Mentor	5/99-4/01	AADR
	National Research Service Award Short-Term Institutional Training Grant (T-35)	Co-Director	5/01-4/06	NIDCR
	Aging: Effects on Infection, Inflammation & Disease	Co-Investigator 10%	2002	NIA

2. PENDING

A Lentiviral Antimicrobial Peptide for Oral Infections	Co-Investigator 10%	2002	NIDCR
Periodontal Status: Predictor of HAART Success	Principal Investigator 20%	2002	UK HIV/AIDS Fund

3. Seminars and invited lectureships:

- 1987 "Effect of desalivation and age on susceptibility to infection by Streptococcus mutans." - Oral Presentation. IADR
- 1988 "Influence of desalivation in rats on the incidence of caries in intact cagemates." ORCA Conference, Angers, France.
- 1988 "The influence of desalivation in rats on the incidence of caries in intact cagemates." Michael G. Buonocore Research Competition, Eastman Dental Center, Rochester, NY.
- 1988 "Influence of desalivation in rats on the incidence of caries in intact cagemates." - Oral Presentation. IADR
- 1989 "Effect of desalivation on caries incidence in intact cagemates." - Oral Presentation. IADR
- 1989 Cariology Research Group, Oral Session Co-Chairman. International Association for Dental Research, General Session, Dublin, Ireland.
- 1992 "Characterization of Actinobacillus actinomycetemcomitans homology between plasmid and chromosomal DNA." - Poster Presentation. IADR
- 1992 "Characterization of Actinobacillus actinomycetemcomitans homology between plasmid and chromosomal DNA." American Society For Microbiology, Texas Branch Meeting, San Antonio, TX
- 1993 "Localization of homology between Actinobacillus actinomycetemcomitans genomic and extrachromosomal DNA." - Oral Presentation. IADR
- 1994 "Plasmid biology of Actinobacillus actinomycetemcomitans." Research Center for Oral Biology, University of Pennsylvania.
- 1994 "Characterization of plasmid pVT745 isolated from Actinobacillus actinomycetemcomitans." - Oral Presentation IADR.
- 1995 "Delineation of a potential secretion gene from A. actinomycetemcomitans" Oral Immunology/Microbiology Research Group, Fifth Annual Meeting, Hilton Head, SC.
- 1995 "Genetic analyses of potential transport systems in Actinobacillus actinomycetemcomitans." University of Pittsburgh School of Dental Medicine
- 1996 "Identification of a potential transport operon in Actinobacillus actinomycetemcomitans." - Poster Presentation. IADR.
- 1996 "Antibiotics and Antibiotic Resistance in the Treatment of Periodontal Diseases." Lunch for Learning. American Academy of Periodontology Annual Meeting. New Orleans.
- 1996 "Antibiotics and Antibiotic Resistance in the Treatment of Periodontal Diseases." Continuing Education for Brazilian Dentists. University of Pittsburgh School of Dental Medicine.
- 1997 Microbiology/Immunology Research Group, Oral Session Co-Chair, International Association for Dental Research, General Session, Orlando, Florida.

1998 “Identification of Potential Transport Genes in Actinobacillus actinomycetemcomitans” - Poster Presentation. AADR.

1998 Immunology Research Group, Oral Session Co-Chair, American Association for Dental Research, General Session, Minneapolis, Minnesota.

2000 “Genetic analyses of potential transport systems in Actinobacillus actinomycetemcomitans.” Department of Microbiology and Immunology. University of Kentucky

2000 “Genetic analyses of potential transport systems in Actinobacillus actinomycetemcomitans.” Department of Microbiology and Immunology. Baylor College of Dentistry

CURRENT RESEARCH INTERESTS:

Genetic and functional analyses of genes proposed to be involved in the transport of substances from the intracellular to the extracellular environment in *Actinobacillus actinomycetemcomitans*.

Genotypic characterization of patients at high risk for aggressive periodontal disease.

Evaluation of cytokine gene expression in gingival tissues.

SERVICE:

University of Rochester

1989-1990 Michael G. Buonocore Research Competition Committee
Eastman Dental Center, Rochester, NY

University of Texas Health Science Center at San Antonio

1993-1994 UTHSC Texas Students for Biomedical Research - Member

1993-1994 Peer Advisor Program, Department of Microbiology

1994-1995 Student Faculty Relations Committee, Dental School - Vice-Chair

1994-1995 Women's Faculty Association - Member

1995 Women's Faculty Association Annual Fundraising Committee - Co-Chair

1995 Women's Faculty Association Distinguished Speaker Program Committee - Member

1995 Dental School Faculty Advance Group Leader

- 1995 Department of Dental Hygiene Admissions Committee - Member
- 1995 Curriculum Management Committee Dental School Course Review - Reviewer

University of Pittsburgh

- 1997-2000 First Professional Promotions Committee - School of Dental Medicine - Member
- 1996-2000 First Professional Admissions Committee - School of Dental Medicine - Member
- 1997-1998 First Professional Admissions Committee - School of Dental Medicine - Chair
- 1996-2000 Curriculum Planning Committee - School of Dental Medicine - Department of Periodontics
- 1996-2001 Student Advisor Program - School of Dental Medicine
- 1996-2001 Ad-hoc Awards/Scholarship Committee - School of Dental Medicine - Member
- 1996-1999 Dental Hygiene Advisory Board - School of Dental Medicine - Member
- 1996-1997 Dental Hygiene Ad-hoc Student Affairs Committee - School of Dental Medicine - Member
- 1996 Dental Hygiene Clinic Grading Task Force - School of Dental Medicine - Chair
- 1996-2001 Department of Dental Hygiene Faculty Search Committee - Member
- 1996-1999 Department of Restorative Dentistry Faculty Search Committee - Member
- 1997 Ad-hoc Strategic Planning Committee - School of Dental Medicine - Member
- 1997 Ad-hoc Ph.D. Program in Oral Biology Committee - School of Dental Medicine – Member
- 1999-2001 Joint Academic, Curriculum and Student Services Committee – School of Dental Medicine-Member
- 2000 Task Force on Centers, Programs and Residency Education – School of Dental Medicine - Member
- 2000 Ad-hoc Inter-School Collaborative Programs Committee – Chair

University of Kentucky

- 2001-pres Admissions Committee - Member

- 2001-pres Ad-hoc Pre-doctoral Masters Program Committee – Member
- 2002-pres University of Kentucky College of Dentistry AADR Chapter – Vice-President
- 2002-pres Faculty Council - Member

International Association for Dental Research

- 1996-1999 IADR/AADR Joint Exhibits Committee - Member
- 1996-1999 AADR Microbiology/Immunology Research Group - Co-Editor of the Group Newsletter
- 1999-2002 AADR Fellowships Committee – Member
- 2000-2002 AADR/IADR Microbiology/Immunology Research Group – Abstract reviewer
- 2002-pres AADR Microbiology/Immunology Research Group – Secretary/Treasurer

American Dental Education Association

- 2000 Secretary, ADEA Section on Periodontics
- 2001 Chair-Elect, ADEA Section on Periodontics
- 2001-pres Abstract Reviewer
- 2002-2003 Chair, ADEA Section on Periodontics

American Dental Association

- 2000-2004 National Board Periodontics Test Construction Committee

National Institute of Health/ National Institute of Dental Research

- 1997 Infectious Diseases Planning Workshop -Invited Participant
- 1998 NIDR Council Workshop in Programs in Clinical Research - Invited Participant
- 1999 NIDCR Ad-Hoc Reviewer
- 2001 NIDCR Ad-Hoc Reviewer

2002 NIDCR OBM-1 Study Section - member

Other

2001-pres Editorial Board
"The Journal of Evidence Based Dental Practice" Ed; Newman, Mosby

Community Activities:

1992 Provided periodontal disease screening examinations for residents at The Willows, a home for mentally and physically handicapped individuals.

1994-1995 Mentor, The Special Volunteer Mentoring Program. John Glenn Elementary School, San Antonio, TX.

1995 Group leader, Outreach Symposium, American Association for Dental Research Annual Meeting, San Antonio, TX.

1996-1998 Participation in the University Dental Health Service Faculty Practice, University of Pittsburgh School of Dental Medicine

1999-2000 Participation in the Pennsylvania Governor's School for Health Care program

2000 Participation in the Mon Valley Consortium Health Career Awareness 2000 Program

2002 Volunteer – Kid's Café, Lexington, Kentucky