

CURRICULUM VITAE

M. John Novak, BDS, LDS, MS, PhD
University of Kentucky
College of Dentistry

BIOGRAPHICAL

Name: Michael John Novak

Business Address: University of Kentucky
College of Dentistry
Dept. of Periodontics
D540 Dental Science Building
Lexington, KY 40536-0297

Business Phone: 859-323-5159 **Fax:** 859-257-6566

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EDUCATION and TRAINING

GRADUATE:

Dates Attended	Name and Location of Institution	Degree Received and Year	Major Subject
1967-1971	Royal College of Surgeons London, England	L.D.S., R.C.S 1971	Dentistry
1967-1971	Guy's Hospital University of London London, England	B.D.S. 1971	Dentistry

POSTGRADUATE:

Dates Attended	Name and Location of Institution	Degree Received and Year	Major Advisor and Discipline
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1980-1982	Eastman Dental Center Rochester, NY	Specialty Certificate 1982	Dr. J. Caton Periodontics
1980-1983	University of Rochester Rochester, NY	M.S. 1983	Dr. A. Polson Dental Research
1985-1987	University of Rochester Rochester, NY	M.S. 1987	Dr. H. Cohen Microbiology/Immunology
1985-1990	University of Rochester Rochester, NY	Ph.D. 1990	Dr. H. Cohen Microbiology/Immunology

Post-Graduate Training:

1986-1990	NIDR Physician Scientist Award		University of Rochester, Rochester, NY.
1983-1986	NIDR Research Trainee		Eastman Dental Center, Rochester, NY
1980-1982	Specialty Training in Periodontics		Eastman Dental Center, Rochester, NY

APPOINTMENTS and POSITIONS

ACADEMIC:

Years Inclusive	Name and Location of Institution or Organization	Rank/Title
1971	Department of Oral Surgery, Guys Hospital, London, England.	Assistant House Surgeon
1971-1972	Department of Prosthodontics, University of Bordeaux, Bordeaux, France.	Clinical Demonstrator
1975-1977	Departments of Restorative Dentistry and Periodontology, Guys Hospital, London, England.	Clinical Demonstrator
1982-1986	Department of Periodontology, Eastman Dental Center, Rochester, NY.	Research Associate

1987-1989	Department of Oral Biology, Eastman Dental Center, Rochester, NY.	Research Associate
1985-1989	Department of Clinical Dentistry, University of Rochester, Rochester, NY.	Assistant Professor
1985-1989	Department of Dental Research, University of Rochester, Rochester, NY.	Assistant Professor
1990-1994	Department of Periodontics University of Texas Health Science Center, San Antonio, TX.	Assistant Professor
1992-1995	Department of Microbiology University of Texas Health Science Center, San Antonio, TX.	Assistant Professor
1995-1995	Department of Periodontics University of Texas Health Science Center, San Antonio, TX.	Associate Professor with Tenure
1995-01	Department of Periodontics University of Pittsburgh School of Dental Medicine Pittsburgh, PA.	Associate Professor with Tenure
1995-00	Department of Periodontics University of Pittsburgh School of Dental Medicine Pittsburgh, PA.	Chairman
1997-98	Division of Oral Biology University of Pittsburgh School of Dental Medicine Pittsburgh, PA	Interim Head
1998-00	Director of Research University of Pittsburgh School of Dental Medicine Pittsburgh, PA	
1998-99	Interim Director of Graduate Education Department of Periodontics University of Pittsburgh School of Dental Medicine	
1998-01	Graduate Faculty Molecular Virology and Microbiology	Associate Professor

Interdisciplinary Biomedical Graduate Program
 University of Pittsburgh
 School of Medicine

1998-01	Graduate Faculty University of Pittsburgh School of Dental Medicine	Associate Professor
2001-pres	Associate Director Center for Oral Health Research University of Kentucky College of Dentistry Lexington, KY	
2001-pres	Department of Periodontics University of Kentucky College of Dentistry Lexington, KY	Professor with Tenure

NON-ACADEMIC:

Years Inclusive	Name and Location of Institution or Organization	Rank/Title or Position
1972-1980	Private Practice Eastbourne, England.	Owner/Practitioner
1990	U.S.Army	Consultant
1995-pres	CollaGenex Corporation, PA.	Consultant
1995-pres	Scientific Advisory Board CollaGenex Corporation, PA	Member
1996-2000	Block Drug Company, NJ	Consultant
1997-2002	Unilever Corporation, UK	Consultant
2002-pres	Procter and Gamble, OH	Consultant

CERTIFICATION and LICENSURE

SPECIALTY CERTIFICATION:

Certifying Board	Year
American Board of Periodontology	1985
American Board of Periodontology - Recertified	1988, 91, 94, 97, 00

MEDICAL or OTHER PROFESSIONAL LICENSURE:

Licensing Board/State	Year
New York State	1984
England	1971

MEMBERSHIPS in PROFESSIONAL and SCIENTIFIC SOCIETIES

Organization	Year
International Association for Dental Research	1980-pres
American Academy of Periodontology	1982-pres
American Board of Periodontology	1985-pres
American Dental Education Association	1995-2002
American Society for Microbiology	1986-1998
Sigma XI Scientific Research Society	1988-1994

HONORS

Title of Award	Year
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National Research Service Award	1983-1986
NIDR Physician Scientist Award	1986-1990

PUBLICATIONS

Refereed Articles:

Novak, MJ, AM Polson, J Caton, E Freeman and SA Meitner. A Periodontal attachment mechanism without alveolar bone. Case Report. *J Periodontol* 54:112, 1983.

Novak, MJ, A Polson and E Freeman. Effects of gold salts on experimental periodontitis. I. Histometric evaluation of periodontal destruction. *J Periodontol* 55:69, 1984.

Polson, AM, MJ **Novak** and E Freeman. Effects of gold salts on experimental periodontitis. II. Cell population characteristics. *J Periodontol* 55:78, 1984.

Polson, AM, J Caton, AP Polson, S Nyman, MJ **Novak** and B Reed. Periodontal response after tooth movement into infrabony defects. *J Periodontol* 55:197, 1984.

Freeman, E, MJ **Novak** and AM Polson. Effects of gold salts on experimental periodontitis. III. Ultrastructural observations. *J Periodontol* 55:597, 1984.

Cohen, HJ, EH Tape, MJ **Novak**, ME Chovaniec, P Liegey and JC Whitin. The role of glutathione reductase in maintaining human granulocyte function and sensitivity to exogenous H₂O₂. *Blood* 69:493-500, 1987.

Novak, MJ, AM Polson and SM Adair. Tetracycline therapy in patients with early juvenile periodontitis. *J Periodontol* 59:366-372, 1988.

Novak, MJ, and AM Polson. Effects of levamisole on experimental periodontitis. *J Periodontol* 60:137-144, 1989.

Mangan, DF, MJ **Novak** and PS Kriger. Lectin-like adherence to and activation of human neutrophils by *Fusobacterium nucleatum*. *Infect Immun* 57:3601-3611, 1989.

Novak, MJ, AM Polson and SM Adair. Tetracycline therapy in patients with early juvenile periodontitis. Year Book of Dentistry. Eds. Rose, Hendler, Johnson, Jordan, Moyers, Rovin, and Silverman. Year Book Medical Publishers Inc., Chicago, IL. 1989.

Novak, MJ, C. Stamatelakys and SM Adair. Resolution of early lesions of juvenile periodontitis with tetracycline therapy alone: Long-term observations of 4 cases. *J Periodontol* 62:628-633, 1991.

Novak, MJ and HJ Cohen. Depolarization of PMN membrane potential by *Porphyromonas (Bacteroides) gingivalis* strain 381 in the absence of respiratory burst activation. *Infect Immun* 59:3134-3142, 1991

Novak, MJ. Diagnosis of periodontal disease: reaction paper, In: Prevention Revisited. Eastman Dental Center 75th Anniversary Symposium. Adv Dent Res 5:37-40, 1991.

Lamster, I, and **MJ Novak.** Host mediators in gingival crevicular fluid: Implications for the pathogenesis of periodontal disease. Crit Rev Oral Biol Med 3:31-60, 1992.

Novak, MJ, C. Stamatelakys and SM Adair. Resolution of early lesions of juvenile periodontitis with tetracycline therapy alone: Long-term observations of 4 cases. Year Book of Dentistry, 1993. Year Book Medical Publishers Inc., Chicago, Il.

Pinckard, RN, DS Woodard, HJ Showell, MJ Conklyn, **MJ Novak,** and LM McManus. Structural and Pathophysiological Diversity of PAF. Clinical Reviews in Allergy 12: 329-359, 1995

Anderson, D, JL Ebersole, and **MJ Novak.** Functional Properties of Non-Human Primate Antibody to *Porphyromonas gingivalis*. Infect. Immun 63: 3245-3252, 1995

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

Novak, MJ. Editor: "Biofilms on Oral Surfaces: Implications for Health and Disease". Adv. Dent. Res. 11: 1997

Yan, SR, and **MJ Novak:** Src -family Kinase p53/56^{lyn} Plays an Important Role in TNF α -Stimulated Production of O₂⁻ by Human Neutrophils Adherent to Fibrinogen.. Inflammation 23: 2; 167-178, 1999

Yan, SR, and **MJ Novak.** β_2 Integrin-dependent phosphorylation of tyrosine kinase Pyk2 stimulated by TNF α and fMLP in human neutrophils adherent to fibrinogen. FEBS LETT 451: 33-38, 1999

Yan, SR and **MJ Novak.** Diverse Effects of Neutrophil Integrin Occupation on Respiratory Burst Activation. Cellular Immunol 195:119-126, 1999

Novak, MJ. Necrotizing Ulcerative Periodontitis. In: Proceedings of the 1999 World Workshop in Periodontics. Annals of Periodontol 4:74-77, 2000.

Novak, MJ, LP Johns, RC Miller, and MH Bradshaw. Adjunctive benefits of subantimicrobial dose doxycycline in the management of severe, generalized, chronic periodontitis. J Periodontol 73:762-769, 2002

Novak, MJ, and TG Donley. Advances in dentistry: Using host response modifiers in the treatment of periodontal disease. Practical Procedures & Aesthetic Dentistry 14:(suppl), 3-10,2002.

Walker C, J Gollwitzer, S Nango, **J Novak,** A Hefti, P Preshaw and C Powala. Long-term Periodontal Treatment with Subantimicrobial Dose Doxycycline Exerts No Antibacterial Effect on Intestinal or Vaginal Microflorae. J Periodontol 2003, (in press)

Ebersole JL, D Capelli, EC Mathys, MJ Steffen, RE Singer, M Montgomery, GE Mott, and **MJ Novak.** Periodontitis in humans and nonhuman primates: oral systemic linkage inducing acute phase proteins.

Annals Periodontol 2003 (in press)

Book Chapters:

Novak, MJ. Classification of Diseases and Conditions Affecting the Periodontium. In: Clinical Periodontology 9th edition; eds. Newman, Carranza, and Takei. WB Saunders, Philadelphia, 2002

Nagy, RJ and **MJ Novak.** Chronic Periodontitis. In: Clinical Periodontology 9th edition; eds. Newman, Carranza, and Takei. WB Saunders, Philadelphia, 2002

Novak, MJ and KF Novak. Smoking and Periodontal Disease. In: Clinical Periodontology 9th edition; eds. Newman, Carranza, and Takei. WB Saunders, Philadelphia, 2002

KF Novak and **Novak, MJ.** Risk Assessment in Periodontal Disease. In: Clinical Periodontology 9th edition; eds. Newman, Carranza, and Takei. WB Saunders, Philadelphia, 2002

Manuscripts Submitted for Publication or in Preparation:

Novak, MJ, MA Al-Shahat, and SR Yan. Inhibitory Effects of LPS-Priming on Neutrophil Chemotaxis and Transendothelial Migration. J Periodontol 2001 (in preparation)

Novak, MJ, RM Potter, J Blodgett, and JL Ebersole. Periodontitis in Hispanics with type 2 diabetes mellitus. I: clinical findings. J Periodontol (in preparation)

Ebersole JL, SC Holt, R Hansard, and **MJ Novak.** Periodontitis in Hispanics with type 2 diabetes mellitus: II. Microbiologic and immunologic findings. J Periodontol (in preparation).

Published Abstracts:

Novak, MJ, J Caton, A Polson, E Freeman and S Meitner. A periodontal attachment mechanism without alveolar bone. J Dent Res 61:220, Abst. 376, 1982.

Novak, MJ, A Polson and E Freeman. The effect of systemic gold therapy on experimental marginal periodontitis. J Dent Res 62:290, Abst. 1092, 1982.

Novak, MJ, AM Polson and E Freeman. Effects of gold salts on experimental periodontitis. II. Cellpopulation characteristics. J Dent Res 63:283, Abst. 1014, 1984.

Freeman, E, **MJ Novak** and AM Polson. Effects of gold salts on experimental periodontitis. III. Ultrastructural observations. J Dent Res 63:283, Abst. 1015, 1984.

Novak, MJ and AM Polson. Tetracycline therapy in patients with early juvenile periodontitis. J Dent Res 64, Abst. 1173, 1985.

Novak, MJ and AM Polson. Effects of levamisole on experimental periodontitis. A.A.P. Research Forum, San Francisco, 1985.

Novak, MJ and H Cohen. Effects of *B. gingivalis* on the activation of human neutrophils. J Dent Res 66:276, Abst. 1353, 1987.

Novak, MJ, C Stamatelakys, AM Polson and SM Adair. Reversibility of early lesions of juvenile periodontitis with tetracycline alone. Long term results. A.A.P. Research Forum, Denver, 1987.

Novak, MJ and HJ Cohen. Effects of *B. gingivalis* on aggregation of human neutrophils. *J Dent Res* 67, Abst. 593, 1988.

Novak, MJ, DF Mangan and HJ Cohen. Modulation of *F. nucleatum*-PMN interactions by *Bacteroides gingivalis*. *J Dent Res* 68:378, Abst. 1573, 1989.

Mangan, DF, MJ **Novak** and P Kriger. Interaction of *Fusobacterium nucleatum* with human neutrophils. IADR Dublin, Abst. 375, 1989.

Mangan, DF, PS Kriger and MJ **Novak**. PMN suppression of lymphocyte mitogenesis induced by *F. nucleatum*. *J Dent Res* 69:92, Abst. 1467, 1990.

Novak, MJ and HJ Cohen. Protein from *B. gingivalis* 381 that modulates neutrophil chemotactic responses. *J Dent Res* 69:354, Abst. 1961, 1990.

Novak, MJ and MO De La Pena, Jr. Neutrophil inactivation by membrane vesicles of *Porphyromonas gingivalis*. *J Dent Res* 70:442, Abst. 1412, 1991.

Novak, MJ, ES Chaves and RN Pinckard. Priming of human neutrophils by mediators of inflammation. American Academy of Periodontology Research Forum, Seattle, Washington, 1991.

Braun, JC, MJ **Novak**, and LM McManus. Salivary PAF levels in patients with rapidly progressive periodontitis. *J. Dent. Res.* 71: Spec. Issue, 262, Abst. 1249, 1992.

Novak, MJ, MA Al-Shahat, MO De La Pena, Jr., and EC Mathys. Neutrophil hyperactivity and generalized, rapidly progressive periodontitis. *J. Dent. Res.* 71: Special Issue, 177, Abst. 573, 1992.

Bradshaw, GK, MO De La Pena, Jr., MA Al-Shahat, and MJ **Novak**. Kinetics of the interactions of *Actinobacillus actinomycetemcomitans* and human neutrophils. *J. Dent. Res.* 71: Special Issue, 264, Abst. 1271, 1992.

De La Pena, Jr., MO, MA Al-Shahat, GK Bradshaw, and MJ **Novak**. Inhibition of neutrophil chemotaxis by membrane vesicles of *Actinobacillus actinomycetemcomitans*. *J. Dent. Res.* 71: Special Issue, 223, Abst. 937, 1992.

Novak, MJ, R Guillemin, and MO De La Pena, Jr.. Non leukotoxic effects of *Actinobacillus actinomycetemcomitans* on human neutrophils. *J. Dent. Res.* 71: Special Issue, 576, Abst. 488, 1992.

Pinckard, RN, HJ Showell and MJ **Novak**. Acyl-PAF: a partial but potent agonist for human PMN stimulation. Fourth international Congress on PAF and Related Lipid Mediators, 1992.

McManus, L, M Garito, R Diaz, M Rasch, J Braun, K Rasheed, A Rasheed, J **Novak**, T Prihoda, and B Mealey. Salivary PAF: an indicator of oral inflammatory disease. Fourth international Congress on PAF and Related Lipid Mediators, 1992.

De La Pena, Jr., MO, LM McManus, RN Pinckard and MJ **Novak**. Neutrophil LtB_4 and PAF release in response to *Actinobacillus actinomycetemcomitans*. *J. Dent. Res.* 72: Special Issue, Abst. 2370, 1993.

Bradshaw, GK, MA Al-Shahat, DCN Chan and MJ **Novak**. A diffusion chamber model of cellular cytotoxicity for materials testing. *J. Dent. Res.* 72: Special Issue, Abst. 928, 1993.

Mathys, EC, TJ Prihoda, JL Ebersole and MJ **Novak**. Host factors and generalized early onset periodontitis. *J. Dent. Res.* 72: Abst. 2046, 1993.

- Al-Shahat, MA, and **MJ Novak**. Neutrophil priming and its effect on transendothelial migration. *J. Dent. Res.* 72: Special Issue, Abst. 1332, 1993.
- Cardenas, AM, MO De La Pena, Jr., and **MJ Novak**. A non-leukotoxic inhibitor of neutrophil function from *Actinobacillus actinomycetemcomitans*. *J. Dent. Res.* 72: Abst. 2368, 1993.
- Anderson, DM, JL Ebersole and **MJ Novak**. Functional properties of nonhuman primate antibody to *Porphyromonas gingivalis*. *J. Dent. Res.* 72: Special Issue, Abst. 1790, 1993.
- Angelini, SM, AC Trevino, and **MJ Novak**. Mechanisms of neutrophil immobilization by membrane vesicles of *Porphyromonas gingivalis*. *J. Dent. Res.* 73. Special Issue, Abst. 1961, 1994
- Trevino, AC, M. Song, and **MJ Novak**. Purification of a neutrophil inhibiting factor from *Porphyromonas gingivalis*. *J. Dent. Res.* 73. Special Issue, Abst. 1202 1994.
- De La Pena, MO, **MJ Novak**, and RN Pinckard. Triphasic calcium responses of human neutrophils to platelet-activating factor. *J. Dent. Res.* 73, Special Issue, Abst. 1203 1994.
- Hansard, R, SE Cox, MJ Steffen, C Herrera, **MJ Novak**, SC Holt, and JL Ebersole. NIDDM in Hispanics: Microbiology and Host Responses in Periodontitis. *J Dent Res* 74, Special Issue, Abst. 1552, 1995
- Potter, RM, JL Ebersole, SC Holt, and **MJ Novak**. NIDDM in Hispanics: Increased frequency and severity of periodontal disease. *J Dent Res* 74, Special Issue, Abst.927, 1995.
- Morris, LW, J Dos Santos, Jr., and **MJ Novak**. Epidemiological study of temporomandibular disorders among diabetic Hispanics. *J Dent Res* 74, Abst.392, 1995.
- De La Pena, Jr., MO, and **MJ Novak**. Kinetics of superoxide production by adherent and non-adherent neutrophils. *J Dent Res* 74, Abst. 917, 1995.
- Perez, E, and **MJ Novak**. Influence of extracellular matrix on neutrophil deactivation by *Porphyromonas gingivalis*. *J Dent Res* 74, 916, 1995.
- Heard, RH, and **MJ Novak**. Neutrophil adherence influences degranulation in response to *Porphyromonas gingivalis*. *J Dent Res* 74, 1348, 1995.
- Karatzas, S, **MJ Novak**, and TM Blieden. Cytokine production by *Porphyromonas gingivalis* specific human T cells. *J. Dent. Res.* 75, 2435, 1996
- Heard, RH, and **MJ Novak**. β_2 integrin regulation of neutrophil function. *J. Dent. Res.* 75, 3207, 1996
- Perez, E, and **MJ Novak**. Vesicles of *Porphyromonas gingivalis* interact with the neutrophil β_2 integrin. *J. Dent. Res.* 75, 3211, 1996
- Potter, RM, AC Trevino, E Hildebrandt, and **MJ Novak**. Lys-gingipain is partially involved in neutrophil activation by *Porphyromonas gingivalis*. *J. Dent. Res.* 75, 3212, 1996
- Trevino, AC, RM Potter, E Hildebrandt, and **MJ Novak**. Arg-gingipain predominates in membrane vesicles of *Porphyromonas gingivalis*. *J. Dent. Res.* 75, 3220, 1996
- Johns, LP, KF Novak, JM Close, and **MJ Novak**. Enhancement of student knowledge of periodontics by case-based learning. *J Dent Res* 76: 236, 1997

Yan, SR, J Bishop, and **MJ Novak**. Protein tyrosine kinase activities in β 3-integrin signaling in human neutrophils. J Dent Res 76: 2649, 1997

Bishop, J, SR Yan, and **MJ Novak**. Contrasting effects of neutrophil integrin occupancy on respiratory burst activation. J Dent Res 76: 2650, 1997.

Novak, J, and S. Yan. Regulation of Neutrophil Function by β 2-integrins. J. Dent Res 77, 406, 1998.

Conde MC, SR Yan, and **MJ Novak**. Stimulation of cytokine release by membrane vesicles of *Porphyromonas gingivalis*. J Dent Res 78, 1999

Conde MC, SR Yan, and **MJ Novak**. Vesicles of *P. gingivalis* stimulate cytokine production via integrin and CD14 pathways. J Dent Res 79: 1984, 2000

Walker C, S Nango, J Lennon, C Yu, P Preshaw, A Hefti, **J Novak**, and C Powala. Effect of sub-antimicrobial dose doxycycline (SDD) on intestinal and vaginal flora. J Dent Res 79: 3718, 2000

Novak MJ, HM Albather, and JM Close. Redefining the Biologic Width in Severe, Generalized, Periodontitis. J Dent Res 80: 164, 2001

Novak, MJ, LP Johns, RC Miller, and MH Bradshaw. Adjunctive benefits of subantimicrobial dose doxycycline in the management of severe, generalized, chronic periodontitis. J Dent Res 81: 4072, 2002

Preshaw PM, AF Hefti, MJ Novak, R Schoor, BL Pihlstrom, BS Michalowicz, TE Van Dyke, C Walker and CV Powala. Subantimicrobial dose doxycycline enhances scaling and root planning. J Dent Res 81: 841, 2002

Other Publications:

Novak, MJ. Effects of gold salts on experimental periodontitis. M.S. Thesis, University of Rochester, 1983.

Novak, MJ. The effects of *Bacteroides gingivalis* on human polymorphonuclear leukocytes. PhD Thesis, University of Rochester, 1990.

PROFESSIONAL ACTIVITIES

TEACHING:

University of Kentucky, College of Dentistry:

Lecturer:

2001-pres Oral Biology for Postgraduate Dental Students I (Grad Course OBI 650)

2001- pres Fundamentals of Dental Public Health (Predoc Course)

2001-pres Periodontal Therapy seminar (Grad Course PER 776)

University of Pittsburgh, School of Dental Medicine:

Course Director:

2000-2001	Periodontal Treatment Planning Spring Semester (Grad. Courses #2240, #2253, #2322)
1999-2001	Periodontal Treatment Planning Fall Semester (Grad. Courses #2140, #2247, #2141)
1999-2001	Periodontics VI (Senior Course #5415)
1999-2001	Periodontics Research Spring Semester (Grad. Courses #2148, #2246, #2317)
1998-2001	Periodontics Research Fall Semester (Grad. Courses #2146, #2216, #2316)
1998-2001	Masters Research and Thesis (Grad. Courses #2100, #2200, #2300, #2400, #2500)
1998-2000	Summer Program for Advanced Standing Students
1999	Graduate Literature Reviews Summer Semester (Grad. Courses #2211, #2321, #2182)
1999	Graduate Literature Reviews Spring Semester (Grad. Courses #2151, #2320, #2181)
1998	Graduate Literature Reviews Fall Semester (Grad. Courses #2111, #2244, #2180)
1997-98	Freshman Periodontics (Course #5151)
1996	Sophomore Periodontology II (Course #5242)
1996	Dental Hygiene Periodontics II (Course #1542)
1996	Cell Biology and Biochemistry (Grad. Course #2311)

Lecturer/Tutor:**Graduate:**

2000-2001	Periodontal Treatment Planning Spring Semester (Courses #2240, #2253, #2322)
1999-2001	Periodontal Treatment Planning Fall Semester (Courses #2140, #2247, #2141)
1999-2001	Periodontics Research Spring Semester (Courses #2148, #2246, #2317)
1998-2001	Periodontics Research Fall Semester (Courses #2146, #2216, #2316)
1998-2001	Masters Research and Thesis (Courses #2100, #2200, #2300, #2400, #2500)
1999-2001	Graduate Literature Reviews Summer Semester (Courses #2211, #2321, #2182)
1999-2001	Graduate Literature Reviews Spring Semester (Courses #2151, #2320, #2181)
1998-2001	Graduate Literature Reviews Fall Semester (Courses #2111, #2244, #2180)
1996	Cell Biology & Biochem (Course #2311) Graduate

First Professional and Dental Hygiene:

1999-2001	Periodontics VI	Undergrad
1996-2000	Summer Program for Advanced Standing Students	Undergrad
1997-2001	Freshman Periodontics (Course #5151)	Undergrad
1997-2000	Periodontology V	Undergrad
1997-2001	Periodontology III	Undergrad
1996-2001	Periodontology II	Undergrad
1996-1997	Periodontics II	Hygiene
1996	Preventive Dentistry	Undergrad

University of Texas Health Science Center at San Antonio:**Course Director:**

1995	Senior Periodontics
1993-1995	Freshman Periodontics
1994-95	Dentist-Scientist Lecture Series
1991-93	Dentist-Scientist Lecture Series

Lecturer/Tutor:**Annual Courses:**

1993-95	Freshman Periodontics. "Introduction to Periodontics" "Classification of Periodontal Diseases". "Epidemiology of Periodontal Diseases". "Histopathology of Gingivitis". "Histopathology of Periodontitis". "Early-Onset Periodontitis".	Undergrad
1993-94	Pathobiology of Periodontal Disease	Graduate

1992-95	Pediatric Dentistry, Guest Lecture Series: "Early-Onset Periodontal Disease".	Graduate
1992-95	Periodontics Lecture Series "Early Onset Disease"	Graduate
1992-95	Periodontics Literature Seminar Series "Pathogenesis of Periodontal Disease"	Graduate
1992-95	Junior Periodontics "Microbial and Host Factors in Periodontal Disease".	Undergrad
1992-94	Junior Clinical Case Conferences A Problem Based Learning Course	Undergrad
1991-95	Periodontics Literature Seminar Series "Early Onset Disease"	Graduate
1991-95	Junior Periodontics "High Risk Patients, Identification and Management"	Undergrad
1990-95	Sophomore Periodontics "Establishing the Periodontal Prognosis"	Undergrad
1990-95	Dental Hygiene, Periodontics II "New Concepts in Periodontal Disease"	Hygiene
1990-95	Dental Biochemistry "The Role of Oxygen Radicals in Periodontal Disease"	Undergrad
1990-95	Periodontics Lecture Series "Pathogenesis of Periodontal Disease"	Graduate
1990-95	Junior Surgery Lab	Undergrad
1990-95	Biomedical Core Course "Host-Bacterial Interactions"	Graduate
1990-94	New Technologies in Periodontics "PMN Function"	Graduate
1990-92	Sophomore Periodontics "Periodontal Abscess"	Undergrad
1990-91	Pathobiology of Periodontal Disease "Chronic Inflammation"	Graduate
1990-91	Pathobiology of Periodontal Disease "Acute Inflammation"	Graduate
1990-91	Pathobiology of Periodontal Disease "Chronic Inflammation"	Graduate

1990-91	Pathobiology of Periodontal Disease "Acute Inflammation"	Graduate
1990	Sophomore Instrumentation Lab	Undergrad
1990	Dental Hygiene, Periodontics II "Antimicrobials"	Hygiene

University of Rochester and Eastman Dental Center:

Annual Courses:

1982-1986	Introductory Course to Clinical Periodontology	Graduate
1982-1986	Dental Radiology/Photography	Graduate
1982-1986	Clinical Topics in Periodontology	Graduate
1982-1986	Research Laboratory Techniques	Graduate
1982-1986	Periodontal Histology and Histopathology	Graduate
1982-1986	Diagnosis and Treatment Planning	Graduate
1982-1986	Periodontal Literature Reviews	Graduate
1982-1986	Occlusal Adjustment /Therapy	Graduate

Biannual Courses:

1982-1989	Biology of the Periodontium	Graduate
1986-1989	Mucosal Immunity	Graduate
1986-1989	Oral Microbiology	Graduate
1986-1989	Fundamentals of Periodontal Disease	Graduate
1986-1989	Dental Research Seminars	Graduate

Clinical Teaching:

1993-1996	UTHSCSA, Periodontics	Graduate
1992-1996	UTHSCSA, Periodontics	Undergrad

1990-1991	UTHSCSA, Periodontics	Undergrad
1982-1986	Eastman Dental Center, Rochester, NY	Graduate

Leadership Programs:

2002	Clinical Preventive Dentistry, Leadership Conference Procter & Gamble, Cincinnati, OH.
2000	American Association for Dental Schools Program "Academic Integrity: Strategies for Building a Culture of Integrity" Boston University, Boston, MA
1997	American Association for Dental Schools Summer Program Career Development for Faculty Leaders, An Immersion Workshop Santa Cruz, CA

Academic Development:

2000	Nutrition and Oral Infectious Disease Workshop The Forsyth Institute Boston, Massachusetts
2000	American Academy of Periodontology 2000 Specialty Conference "Periodontal Medicine: Clinical and Practical Implications" Washington, DC
1999	25 th Annual Periodontal Symposium "Have Perio-Chip, Atridox, Periostat, and other Technologies Eliminated the Need for Definitive Periodontal Surgery?" University of Southern California, Los Angeles, CA
1994	"Exploring the Woman's Perspective" (6 week course) Office of Educational Resources, UTHSC-SA
1994	Theoretical and Methodological Topics in Research on Medical Treatment Effectiveness in Mexican-Americans (8 week course). "MERECE" Research Training Seminars, UTHSC-SA
1993	"Writing Winning Grants". UTHSCSA Workshop, Office of Educational Resources. Panel Member.
1993	Dental School Faculty Advance, Chairman. "Preparing Faculty for the Future in Dentistry". UTHSC-SA
1992	Tutor, Problem Based Learning for Junior Dental Students Dental School, UTHSC-SA
1992	Coordinator and Participant, Faculty Training for Problem Based Learning Pilot Program. UTHSC-SA

- 1992 "Writing National Board Type Questions" Workshop.
Instructional Development, UTHSC-SA
- 1992 Problem Based Learning,
Dental School Workshop, UTHSC-SA
- 1992 Dental School Faculty Advance, Chairman. "Faculty Development:
How can it help me? How can it help the school?". UTHSC-SA
- 1991 Teaching Skills Course, UTHSC-SA
- 1991 Problem Based Learning, Instructional Workshop UTHSC-SA
- 1991 Dental School Faculty Advance, "Meeting the Challenge of a
Multicultural Student Body". Organizing Committee. UTHSC-SA
- 1990 Dental School Faculty Advance, "The Challenge of Teaching
Problem Solving and Critical Thinking". Organizing Committee.
UTHSC-SA

Masters' Theses and Ph.D. Dissertations Directed, Membership on Supervising Committees, and Postdoctoral Fellows Supervised:

Ph.D Dissertation

Research Mentor for Dr. M. Al-Shahat, Mansoura University, Egypt
 Research Fellow under Joint Supervision Grant from Egyptian Government
 Dissertation: An in vitro Model for Periodontal Disease
 (Research completed Spring semester, 1993; defended September 1993)

M.S. Dissertation

Research Mentor for Dr. Jesus Diaz, University of Pittsburgh, School of Dental Medicine
 Research Project: "A Rapid Assay for Periodontal Inflammation and Disease". IRB#981261

Research Mentor for Dr. Scott Folino, University of Pittsburgh, School of Dental Medicine
 Research Project: "Effects of Emdogain on Probing Depths and Clinical Attachment Levels in Patients with Adult Periodontitis". IRB#990446

Research Mentor for Dr. Tony Marchionno, University of Pittsburgh, School of Dental Medicine
 Research Project: "Long-Term Effects of Emdogain on Probing Depths and Clinical Attachment Levels in Patients with Adult Periodontitis". IRB #990446

Research Mentor for Dr. Huda Al-Bather, University of Pittsburgh, School of Dental Medicine
 Research Project: "Redefining the Biologic Width in Severe Generalized Periodontitis". IRB#981188
 (MS Degree received, Summer 2000)

Research Mentor for Eric McDonough, Harvard School of Dental Medicine.
Research project entitled: Implication for *Src*-family Kinase p53/56^{lyn} in fMLP-stimulation of Human Neutrophil Function. (Research Honors, Summer 1998)

Research Mentor for Dr Glen Casto, University of Pittsburgh, School of Dental Medicine
Masters Thesis: "Crevicular and Serum Concentrations of Doxycycline following Systemic Administration of Periostat in Patients with Rapidly Progressive Periodontitis". (M.S. Degree received, Fall 1999)

Research Mentor for Dr. E. Mathys, UTHSCSA, Periodontics Dissertation: Serum Factors in Generalized Early Onset Periodontitis
(M.S. Degree received, Summer 1993)

M.S. Supervising Committees

Committee chair/mentor: Dr. Jesus Diaz, University of Pittsburgh, School of Dental Medicine
Research Project: "A Rapid Assay for Periodontal Inflammation and Disease". IRB#981261

Committee chair/mentor: Dr. Scott Folino, University of Pittsburgh, School of Dental Medicine
Research Project: "Effects of Emdogain on Probing Depths and Clinical Attachment Levels in Patients with Adult Periodontitis". IRB#990446

Committee chair/mentor: Dr. Tony Marchionno, University of Pittsburgh, School of Dental Medicine
Research Project: "Long-Term Effects of Emdogain on Probing Depths and Clinical Attachment Levels in Patients with Adult Periodontitis". IRB #990446

Committee chair/mentor: Dr. Huda Al-Bather, University of Pittsburgh, School of Dental Medicine
Research Project: "Redefining the Biologic Width in Severe Generalized Periodontitis". IRB#981188

Committee chair/mentor: Dr Glen Casto, University of Pittsburgh, School of Dental Medicine
Masters Thesis: "Crevicular and Serum Concentrations of Doxycycline following Systemic Administration of Periostat in Patients with Rapidly Progressive Periodontitis". (M.S. Degree received, Fall 1999)

Committee member/mentor: Dr. E. Mathys, UTHSCSA, Periodontics Dissertation: Serum Factors in Generalized Early Onset Periodontitis
(M.S. Degree received, Summer 1993)

Committee member: Dr. Charles Anthony Powell, Lackland AFB, Texas (Mentor: Dr. L. McManus).
Dissertation: The Molecular Heterogeneity of Salivary Platelet-Activating Factor (PAF) in Periodontal Health and Disease. Defending in 1995.

Committee member: Dr. M. Rasch, Lackland AFB, Texas (Mentor: Dr. L. McManus) Dissertation: The Effect of Scaling and Root-Planing on Salivary and Crevicular Fluid Platelet-Activating-Factor Levels in Human Periodontitis Patients. Graduated 1993.

Committee member: Dr. D. Anderson, Lackland AFB, Texas (Mentor: Dr. J.L. Ebersole) Dissertation: Functional Properties of Nonhuman Primate Antibody to *Porphyromonas gingivalis*
Graduated 1993.

Committee member: Dr. J. Braun, Lackland AFB, Texas (Mentor: Dr. L. McManus) Dissertation: Salivary PAF Levels in Subjects with Rapidly Progressive Periodontitis. Graduated 1992.

Committee member: Dr. K. Smith, Lackland AFB, Texas (Mentor: Dr. J.L. Ebersole) Dissertation: Characterization and Antigenic Properties of Fimbriae From Nonhuman Primate Oral Bacteroides. Graduated 1992.

Committee member: Dr. Edith Hernichel, Department of Periodontics, UTHSCSA (Mentor: Dr. K.S. Kornman) Dissertation: LPS Responsiveness of Human Monocytes and Susceptibility to Periodontal Disease. Graduated 1992.

Committee member: Dr. R. Diaz, Lackland AFB, Texas (Mentor: Dr. L. McManus) Dissertation: Relation of Salivary PAF to Periodontal Disease in Periodontal Maintenance and Refractory Periodontitis Patients. Graduated 1991.

Committee member: Dr. M. Garito, Lackland AFB, Texas (Mentor: Dr. L. McManus) Dissertation: Relation of Salivary PAF to Periodontal Disease. Graduated 1991.

Student Achievements

University of Pittsburgh, School of Dental Medicine

Dr. Marina Conde, University of Sao Paulo, Brazil. First place in the scientific session of the University of Sao Paulo's Research Day, 2000. Research project entitled "Stimulation of cytokine release by membrane vesicles of *Porphyromonas gingivalis*". Research supervised by Drs Novak and Yan.

Eric McDonough, Harvard School of Dental Medicine. Independent research project supervised by Drs Novak and Yan. Received Graduation for DMD (Harvard) with research honors, 1998. Research project entitled: Implication for *Src* -family Kinase p53/56^{lyn} in fMLP-stimulation of Human Neutrophil Function.

Radhika Chigurupati (Undergraduate) Recipient of O.J. Penhall Award (third place). Professional Practice Update Table Clinic Awards, 1996. Project: Early-Onset Periodontitis. Research supervised by Dr Novak

University of Texas Health Science Center, San Antonio, TX:

Richard H. Heard (Undergraduate, DS III). Recipient of "Most outstanding presentation in basic science research" Award at the Hinman Student Research Symposium, University of Tennessee, Memphis, 1996

Richard H. Heard (Undergraduate DS II). Recipient Student Research Fellowship, American Association for Dental Research, 1995. Research Project: β_2 Integrin Regulation of Neutrophil Function.

Richard H. Heard (Undergraduate, DS I), Finalist and Third Place Recipient, Caulk/Dentsply Student Research Competition, 24th Annual Session of the American Association for Dental Research, San Antonio, TX, 1995. Heard, RH, and MJ Novak. Neutrophil adherence influences degranulation in response to *Porphyromonas gingivalis*. J Dent Res 74, 1348, 1995.

Ana Trevino, Graduate Student, Department of Microbiology. Recipient of a four year NIDR Research Training Award for Underrepresented Minorities. 1992-1996.

Gayle Bradshaw, (Undergraduate DS3). Finalist, Caulk/Dentsply Student Research Competition, 21st Annual Session of the American Association for Dental Research, Boston, MA. "Bradshaw, GK, MO De La Pena, Jr., MA Al-Shahat, and MJ Novak. Kinetics of the interactions of *Actinobacillus actinomycetemcomitans* and human neutrophils. J. Dent. Res. 71: Special Issue, 264, Abst. 1271, 1992.

Summer Students

Troy Collins (DSIII, UTHSCSA), 1995 NIDR Summer Research Program for Minority Dental Students. Project: Association of Dyslipidemia with NIDDM and Periodontal Disease.

Eddie Perez (Undergrad., St. Mary's College, San Antonio) 1995
Research Project: Integrin Expression by Human Neutrophils.

Richard M. Potter (DSIII, UTHSCSA), 1995 NIDR Summer Research Program for Minority Dental Students. Research Project: The role of Arg- and Lys- gingipain of *Porphyromonas gingivalis* in the deactivation of human neutrophils..

Richard H. Heard, III (DSI, UTHSCSA), 1995 Recipient AADR Student Research Fellowship. Project: β_2 Integrin Regulation of Neutrophil Function.

Eddie Perez (Undergrad., St. Mary's College, San Antonio) 1994
Research Project: Influence of Substrate and Adhesion on *P. gingivalis*-Neutrophil interactions. Presented at AADR Annual Meeting, San Antonio, 1995.

Richard M. Potter (DSIII, UTHSCSA), 1994 NIDR Summer Research Program for Dental Students. Research Project: Influence of Infection and Host Response on the Effectiveness of Periodontal Therapy in Diabetic Hispanics. Presented at AADR Annual Meeting, San Antonio, 1995.

Richard H. Heard, III (DSI, UTHSCSA), 1994 NIDR Summer Research Program for Dental Students. Project: Neutrophil Adhesion and Degranulation in Response to *P. gingivalis* vesicles. Presented at AADR Annual Meeting, San Antonio, 1995.

Gayle Bradshaw (DSII, UTHSCSA), 1991 NIDR Summer Research Program for Dental Students. Research Project: Kinetics of the interactions of *Actinobacillus actinomycetemcomitans* and human neutrophils. Presented at IADR Annual Meeting, Boston, 1992.

Minority Research Students Supervised:

Dr. Jesus Diaz (Hispanic). Periodontics Resident, University of Pittsburgh

Troy Collins (African American). Dental Student at UTHSCSA. 1995-96

Ana Trevino (Hispanic). Graduate Studies in Microbiology at UTHSCSA. Class of 1998

Ana Cardenas (Hispanic). Research Studies at UTHSCSA Followed by Graduate Studies in Psychology, UT Dallas. Class of 1998

Eddie Perez (Hispanic). Undergraduate Studies at St. Mary's University, San Antonio, TX. Graduating Class of 1996. Accepted Dental School at UTHSCSA.

Stephanie Angelini (Hispanic). Graduate Studies in Microbiology at UTHSCSA. Teaching in San Antonio School District.

RESEARCH:

<u>Grant Number</u>	<u>Grant Title</u>	<u>Role in Project and Percentage of Effort</u>	<u>Years Inclusive</u>	<u>Source</u>
DE14338	Effects of Periodontal Treatment on Preterm Birth	PI/25%	2002-2006	NIDCR
AG21406	Aging: Effects on Infection, Inflammation & Disease	PI/10%	2002-2006	NIA
	Evaluation of Systemically Delivered Doxycycline Hyclate (Periostat) plus Locally Delivered Doxycycline Hyclate (Atridox) in Combination with Baseline SRP with 3-month Debridement versus Baseline SRP Alone with 3-month Debridement in the Treatment of Adult Periodontitis	PI/5%	2002-2004	CollaGenex
	A 9 month, Multicenter, Double-blind, Placebo Controlled Clinical Trial of Periostat	PI/20%	1998-2001	CollaGenex
	Effect of Periostat in the Non-Surgical Management of Generalized, Severe, Periodontitis	PI/20%	1997-2001	CollaGenex
	A Post-Approval Study for the Evaluation of the Sensitization Potential to Emdogain after Multiple Treatments	PI/20%	1997-2000	Biora
	Long-term Effectiveness of Emdogain in Patients with Mild to Moderate Periodontitis	PI/20%	1997-2000	Biora
	A Dose Ranging Evaluation of Ketoprofen Gel for Maintenance of Peri-Implant Alveolar Bone	PI/20%	1996-1998	Block Drug
DE09845	<u>P. gingivalis</u> Membrane Blebs - Modulators of PMN Function	PI / 50%	1992-1999	NIDR
DE09845	Minority Research Supplement to DE09845	PI	1992-1998	NIDR

DE11026	Environmental Regulation of Leukocyte Extravasation	PI / 10%	1994-1997	NIDR
	Student Research Fellowship	PI	1995-1996	AADR
DE10589	Regional Research Center for Minority Oral Health	Investigator 20%	1993-1995	NIDR
	Influence of Infection and Host Response on the Effectiveness of Periodontal Therapy in Diabetic Hispanics.	PI/10%	1993-1995	STHRC
HL22555	Molecular Pathobiology of Platelet-Activating Factors	Investigator 20%	1991-1995	NHLBI
	Preparing for the Future in Dental Education	PI	1993-1993	PEW
	Egyptian Government Co-Supervision Program	PI	1991-1993	
	Modulation of PMN Function by Outer Membrane Components of <u>Bacteroides gingivalis</u> .	PI	1990-1991	NIH/BRSG
DE00184	Physician Scientist Award	PI/100%	1986-1990	NIDR
DE07061	National Research Service Award	Fellow	1983-1986	NIDR
Pending:				
DE015060	Periodontal Status: Predictor of HAART Success	Inv/5%	2003	NIDCR
DE14760	A Lentiviral Antimicrobial Peptide for Oral Infections	PI/10%	2003	NIDCR
	Evaluation of Locally Delivered Atridox with Baseline SRP versus Locally delivered	PI/5%	2003	CollaGenex

Arestin with Baseline SRP in the
Treatment of Adult Periodontitis

Seminars and Invited Lectureships Related to Research:

- 2002 Maternal and Child Health Conference, Louisville, KY
“How can a mother’s dental health affect the health of her baby?”
- 2002 Indian Health Service, Telaquah, Oklahoma
“Treating the Double Edged Sword of Periodontal Disease”
- 2002 Mountain Comprehensive Health Corporation, Whitesburg, KY
“Oral Infections and Preterm Birth”
- 2001 Guys Hospital Alumni Meeting, England
“The Changing Face of Periodontics and Periodontal Education”
- 2001 Unilever, Corp.; Port Sunlight, England
“Rapid Diagnostics for Periodontitis”
- 2001 Maternal and Child Health Conference, Louisville, KY
“Periodontal Disease and its Influence on Systemic Disease and Birth Outcomes”
- 2001 University of Kentucky, Cardiovascular Seminar Series
“Oral Infection: a Potential Complicating Factor for Cardiovascular Disease”
- 2000 American Academy of Periodontology
Balint Orban Memorial Competition, Chairman
Honolulu, Hawaii
- 2000 American Academy of Periodontology
Research Forum, Chairman
Honolulu, Hawaii
- 2000 Baylor College of Dentistry
“Periodontics for the Next Millenium”
- 2000 University of Kentucky at Lexington Department of Microbiology
“Integrin Regulation of Neutrophil Activation and its Utilization by Oral Pathogens for
Host Evasion”
- 2000 European Research Group for Oral Biology (ERGOB)
Zurich, Switzerland
“Effects of antibiotics at sub-antimicrobial levels”
- 2000 Nova Southeastern University
“Diabetes and Periodontal Disease: Clinical and Laboratory Studies”
- 2000 University of Pittsburgh Graduate Program in Molecular Virology and Microbiology
“Integrin Regulation of Neutrophil Activation and its Utilization by Oral Pathogens for
Host Evasion”

- 2000 University of Kentucky at Lexington
"Diabetes and Periodontal Disease: Clinical and Laboratory Studies"
- 1999 University of Rochester, Eastman Dental Center, Rochester, NY
"Early-Onset Periodontitis"
- 1998 Unilever Corporation. "Oral Health: Impact on Total Body Health"
Port Sunlight, England.
- 1998 University of Sao Paulo, Brazil. "Periodontal Research".
- 1998 American Academy of Periodontology
Balint Orban Memorial Competition; Chairman
Boston, Massachusetts
- 1998 University of Florida, Gainesville, FL.
"Periodontics for the Next Millenium"
- 1996 University of North Carolina, Chapel Hill, NC. Department of Periodontics.
"Early-Onset Periodontitis"
- 1996 Oral Immunology/Microbiology Research Group, Sixth Annual Meeting
Orlando, FL." Redefining the Frame of Reference for Neutrophil Studies".
- 1995 XI Congreso Nacional De Odontologos Javerianos, Colombia
"Identification and Analysis of Risk Factors for the Periodontal Diseases"
"Clinical Management of the Periodontitis Patient".
- 1995 Oral Immunology/Microbiology Research Group, Fifth Annual
Meeting, Hilton Head, SC. The Impact of Adhesion on Neutrophil
Biology and Bacterial-Neutrophil Interactions.
- 1995 Eastman Dental Center, Rochester NY, Biology of the Periodontium
Lecture Series, "Early Onset Periodontitis".
- 1994 Unilever Research, Port Sunlight, England
"*In vitro* models for investigating environmental regulation of inflammation"
- 1994 University of Maryland School of Dentistry, Baltimore.
"Environmental Regulation of Neutrophil Function"
- 1994 American Academy of Periodontology, 80th Annual Meeting, San
Francisco, CA. Continuing Education Course: "The Relative
Importance of Environmental and Genetic Risk Factors in Periodontitis".
- 1994 University of Florida, Gainesville, Florida. Departments of
Periodontology and Oral Biology "Environmental Regulation of
Neutrophil Function and its Potential Impact on Periodontal Disease Progression".
- 1994 University of Pennsylvania, School of Dental Medicine
"Environmental Regulation of Neutrophil Function"

- 1993 American Academy of Periodontology, 79th Annual Meeting, Chicago, Illinois. Continuing Education Course: "Neutrophil Abnormalities in Periodontal Disease - Genetic or Induced?"
- 1993 American Academy of Periodontology, 79th Annual Meeting, Chicago, Illinois. Luncheon for Learning: "Neutrophil Dysfunction and Periodontal Disease".
- 1993 Department of Periodontics, School of Dentistry, University of Alabama at Birmingham, Alabama. "Pathogenesis of Early-Onset Periodontitis".
- 1993 Research Center in Oral Biology, University of Alabama at Birmingham, Alabama. "Environmental Regulation of Neutrophil Function"
- 1993 University of Mansoura School of Dentistry, Egypt. "Immunologic Aspects of the Periodontal Diseases".
- 1993 Medical College of Georgia, Augusta, GA. "Induction of Neutrophil Dysfunction and its Role in the Pathogenesis of Inflammatory Disease".
- 1993 Eastman Dental Center, Rochester NY, Biology of the Periodontium lecture Series, "Early Onset Periodontitis".
- 1993 Oral Immunology Research Group, Third Annual Meeting, Bermuda. "Neutrophil priming: effects on the expression of adhesion molecules, transendothelial migration, and endothelial cell cytotoxicity".
- 1992 Microbiology Department. UTHSCSA, San Antonio, TX. Guest Lecture Series: "Modulation of the Physiologic and Biochemical Responses of Human Neutrophils by Periodontal Pathogens".
- 1992 ADA Dental Students Conference on Research, UTHSC, San Antonio, TX. "Local and Systemic Modulation of Neutrophil Function. Implications for Periodontal Disease".
- 1992 Oral Immunology Research Group, Second Annual Meeting, Florida. "Modulation of PMN Function by *P. gingivalis*".
- 1991 Periodontal Lecture Series, Eastman Dental Center, Rochester, NY. "Early Onset Periodontal Diseases"
- 1990 Minisymposium, Periodontal Research / Microbiology and Immunology Research Groups, International Association for Dental Research General Session, Cincinnati, Ohio. "Advances in the Investigation of Bacterial Virulence Factors". Presenter of "Protein from *B. gingivalis* 381 that modulates neutrophil chemotactic responses".
- 1990 Prevention Revisited. A Symposium Celebrating Eastman Dental Center's 75th Anniversary. Reactor to Review of Diagnosis by Dr. R.R. Ranney.

Other Research Related Activities:

National Institutes of Health:

1993	NIH/NIDR Dental Research Programs Advisory Committee	Ad Hoc Consultant.
1993	NIH/NIDR	Reviewer, Program Projects.
1997	NIH/NIDR	Chair Interagency Grant Review Special Emphasis Panel
1997	NIH/NIDR	Reviewer, Small Business Innovative Research (SBIR) Grant Program
1998	NIH/NIDCR	Reviewer, Program Projects
1999	NIH/NIDCR	Reviewer, Cooperative Agreement Program Projects
1999	NIH/NIDCR	Reviewer, Small Business Innovative Research (SBIR) Grant Program
2000	NIH/NIDCR	Reviewer, Oral Biology and Medicine Study Section
2002	NIH/NIDCR	Reviewer, Small Business Innovative Research (SBIR) Grant Program

International Association for Dental Research:

1993-1996	IADR/ICOB Planning Committee	Member
1994-1996	IADR/ICOB Planning Committee	Chairman
1996-2000	Immunology/Microbiology Group of IADR	Program Chair

American Association for Dental Research:

1991-1994	AADR Nominating Committee	Member
1995-1996	AADR Periodontology Group Program.	Reviewer
1999-2000	Student Research Group	Advisor
2002-pres	University of Kentucky Chapter	President

American Academy of Periodontology (AAP):

1988-1989	Research Forum Subcommittee	Member
1989-1991	Orban Prize Subcommittee	Member
1995	AAP Summit Parameters of Clinical Care Trigger Paper for Early-Onset Periodontitis	Member/Author
1996	AAP Periodontal Literature Reviews	Reviewer
1997-1998	AAP Subcommittee on Research Submissions	Chair
1999-2000	AAP Subcommittee on Research Submissions	Chair
1997-2000	AAP Subcommittee on Research Submissions	Member
1998-1999	AAP Committee on Periodontal-Medical Interface	Member
1998	AAP International Workshop for the Classification of Periodontal Diseases “Necrotizing, Ulcerative Periodontitis”	Author/Reviewer
1999	AAP International Workshop for the Classification of Periodontal Diseases	Participant
1999	AAP Summit on Education and Periodontal Medicine	Member
1999-2000	Task Force to Explore Options for Financing Postdoctoral Education and Faculty Development	Chair

Non-NIH Ad Hoc Research Grant Reviews:

2001	Philip Morris External Research Program	Reviewer
1992	Human Frontier Science Program Strasbourg, France.	Reviewer
1992	Dental Research Unit Programs Medical Research Council, England	Reviewer

Editorial Boards:

1989-1996	Editorial Board Journal of Periodontology
1999-2001	Associate Editor Clinical Periodontology, Ninth Edition Eds; Newman/Carranza/Takei W.B. Saunders
2001-pres	Editorial Board The Journal of Evidence Based Dental Practice Ed; Newman Mosby

Scientific Journal Reviews:

1989-1999	Journal of Periodontology	Reviewer
1990-pres	Critical Reviews in Oral Biology	Reviewer
1992-pres	Journal of Infection and Immunity	Reviewer
1994-pres	Journal of Dental Research	Reviewer
1996-pres	Advances in Dental Research	Reviewer
2001-pres	Annals of Periodontology	Reviewer

CURRENT RESEARCH INTERESTS:

Pathogenic Mechanisms and Therapy in Periodontal Disease
 Non-Surgical Periodontal Therapy
 Integrin Regulation of Neutrophil Function
 Neutrophil-Microbial Interactions
 Mechanisms of Tissue Destruction in Inflammatory Disease

SERVICE:

University and Medical/Dental School:

University of Kentucky, Lexington, KY.

University Service:

2002-pres Member, Protocol Review Subcommittee, General Clinical Research Center

College of Dentistry:

- 2001-pres Course reviews
- 2002-pres Member, University of Kentucky Dental Care Board
- 2002-pres President, University of Kentucky Chapter of AADR

University of Pittsburgh, Pittsburgh, PA.**University Service:**

- 1998 Coordinator, University Multidisciplinary Response to NIDR RFA DE-98-009 “Biomimetics and Tissue Engineering In the Restoration of Orofacial Tissues” (partially funded).
- 1998 Member, Planning Committee for University Multidisciplinary Application for NIH K30 Clinical Research Training Award (Funded)
- 1998 Member, Planning Committee for University “Center for Discovery “ Multidisciplinary NIH Application in Oral Cancer (Funded)
- 1998-2000 Member, Health Sciences Research Committee, University of Pittsburgh
- 1998-2001 Member, Competitive Medical Research Fund Review Committee, University of Pittsburgh
- 1998-2000 Member, Clinical Trials Steering Committee, University of Pittsburgh
- 1996-1999 Member, Institutional Review Board for Human Subjects, University of Pittsburgh

School of Dental Medicine:

- 1999-2000 Member, Thesis Advisory Committee
- 1999-2000 Member, Joint Academic and Clinical Affairs Committee (Deans Committee)
- 1998-1999 Member, Planning and Budget Committee
- 1998-2000 Chair, Scientific Review Committee
- 1998 Chair, Dean’s Task Force on Oral Biology
- 1998-1999 Chair, Search Committee for Head of Oral Biology
- 1997-1999 Chair, Search Committee for Oral Biology Faculty
- 1997-2000 Member, Dean’s Council, School of Dental Medicine
- 1997-1998 Member, Faculty Retreat Planning Committee
School of Dental Medicine

- 1997-1998 Chair, Ad Hoc Committee for PhD Programs, School of Dental Medicine
- 1997-1999 Member, Admissions Committee, Graduate Programs, School of Dental Medicine
- 1997-1999 Member, Curriculum Committee, Graduate Programs, School of Dental Medicine
- 1996-1998 Member, Curriculum Committee, School of Dental Medicine
- 1996-1997 Chair, Ad Hoc Committee on Clinical Curriculum, School of Dental Medicine

University of Texas Health Science Center at San Antonio, TX.

- 1994-1995 Member, Strategic Planning Committee, UTHSCSA Dental School
- 1994-1995 Chair, Faculty Assembly of UTHSCSA Dental School
- 1994-1995 Chair, Committee on Committees of the Faculty Assembly, UTHSCSA Dental School
- 1994-1995 Member, UTHSCSA Dental School Task Force for a Problem-Based Learning (PBL) Curriculum
- 1993-1994 Member, UTHSCSA President's Special Committee on Conflict of Interest/Affiliation Agreements
- 1993-1994 Vice-Chair, Dental School Faculty Assembly, UTHSCSA
- 1992-1993 Secretary, Dental School Faculty Assembly, UTHSCSA
- 1990-1994 Member, UTHSCSA Institutional Review Board for Human Subject Research
- 1991-1994 Chairman, Dental School Faculty Development Committee, UTHSCSA
- 1990-1991 Member, Dental School Faculty Development Committee, UTHSCSA

Continuing Medical/Dental Education Courses Given:

- 1990 Continuing Education Course, UTHSCSA, Positive Periodontics. "Periodontal Disease Etiology Overview and Microbiologic Testing in the Dental Setting - An Update."
- 1990 Fort Hood Texas, Residency Program, "A Review Course in Immunology". A Two Day Course.
- 1991 Continuing Education Course, UTHSCSA, Positive Periodontics. "Understanding Periodontal Diagnostics"
- 1991 Continuing Education Course, UTHSCSA, Luncheon for Learning. "Periodontal Patients-Treat or Refer?"

- 1991 Continuing Education Course, UTHSCSA, for Periodontists from Brazil. "Diagnosis of Periodontal Disease".
- 1992 Fort Gordon, Georgia, Residency Program, "A Review Course in the Immunology of Periodontal Disease". A Two Day Course.
- 1992 Wilford Hall Medical Center, Lackland AFB, San Antonio, TX. Allergy and Dermatology Grand Rounds. "Neutrophil Function".
- 1996 Continuing Education in Implantology for Brazilian Periodontists, School of Dental Medicine, University of Pittsburgh
- 1998 University of Sao Paulo, Brazil
"Diagnosis and Treatment Planning".
- 2000 University of Pittsburgh CE course, Scranton, PA
"Surgical versus Non-Surgical Treatment of Periodontal Disease"
- 2000 University of Pittsburgh CE course, Pittsburgh, PA
"Surgical versus Non-Surgical Treatment of Periodontal Disease"
- 2001 University of Pittsburgh CE course, Altoona, PA
"Non-Surgical Treatment of Periodontal Disease"
- 2001 University of Pittsburgh CE course, Greensburgh, PA
"Non-Surgical Treatment of Periodontal Disease"
- 2001 University of Pittsburgh CE course, Pottsville, PA
"Non-Surgical Treatment of Periodontal Disease"
- 2001 Indian Health Service, Albuquerque, NM
"Periostat in Diabetes and Severe, Generalized, Periodontitis"
- 2002 Indian Health Service, Tulsa, OK
"Periodontal Disease; Etiology, Pathogenesis, and Management"
- 2002 Dental Educational Symposium, Chicago, IL
"Advances in Periodontal Disease Management: Clinical and Practical Implications"
- 2002 Dental Educational Symposium, Washington, DC
"Advances in Periodontal Disease Management: Clinical and Practical Implications"
- 2002 Dental Educational Symposium, Philadelphia, PA
"Advances in Periodontal Disease Management: Clinical and Practical Implications"
- 2002 Dental Educational Symposium, New York, NY
"Advances in Periodontal Disease Management: Clinical and Practical Implications"
- 2002 Continuing Education for Dental Practitioners, Lexington, KY
"Severe Generalized Periodontitis: A Treatment Challenge"