

# CURRICULUM VITAE

## LAURIE K. MCCAULEY

### EDUCATION

Bachelor of Science, Education The Ohio State University, <i>cum laude</i>	1980
Doctor of Dental Surgery The Ohio State University, <i>cum laude</i>	1985
Master of Science, Dentistry The Ohio State University	1988
Doctor of Philosophy, Veterinary Pathobiology, The Ohio State University	1991

### ACADEMIC APPOINTMENTS AND PROFESSIONAL EXPERIENCE

Student Teaching Assistant, College of Dentistry, The Ohio State University	1984 -1985
Graduate Teaching Assistant, Department of Periodontology, College of Dentistry, The Ohio State University	1985-1988
Private practice limited to Periodontics, Marysville, Ohio	1988-1991
Graduate Research Fellow, Department of Periodontology, College of Dentistry, The Ohio State University	1988-1991
Graduate Research Fellow, Department of Veterinary Pathobiology, The Ohio State University	1988-1991
Private practice limited to Periodontics Dental Faculty Associates, University of Michigan	1992-present
Assistant Professor, Department of Periodontics/ Prevention/Geriatrics, School of Dentistry, University of Michigan	1992-1996
Associate Professor, Department of Periodontics/ Prevention/Geriatrics, School of Dentistry, University of Michigan	1996-2001
Visiting Scientist, Institut de Genetique et de Biologie Moleculaire et Cellulaire (IGBMC), Strasbourg France, Hosted by Professor Pierre Chambon	1998-1999
Associate Professor, Department of Pathology Medical School University of Michigan	2002-2009
Professor, Department of Periodontics and Oral Medicine (formerly Periodontics/Prevention/Geriatrics)	

School of Dentistry, University of Michigan	2001-present
Chair, Department of Periodontics and Oral Medicine (formerly Periodontics/Prevention/Geriatrics) School of Dentistry, University of Michigan	2002-2012
Visiting Professor, École Normale Supérieure de Lyon Laboratoire de Biologie Moléculaire de la Cellule Lyon, France, Hosted by Professor Pierre Jurdic	2005-2006
Professor, Department of Pathology Medical School University of Michigan	2009-present
Visiting Professor, Center for Experimental Therapeutics And Reperfusion Injury Brigham and Women's Hospital Harvard Medical School Boston, MA, Hosted by Professor Charles Serhan	2012-2013
Dean, School of Dentistry, University of Michigan	2013-present

## **CERTIFICATION AND LICENSES**

Certification in Periodontics The Ohio State University, College of Dentistry	1988
Ohio State Dental Board License to Practice Dentistry	1985-present
American Board of Periodontology Diplomate Board Certification Recertified 2010, 2016	1992-present
State of Michigan License to practice Dentistry	1992-present
State of Michigan Specialty Certification - Periodontist	1993-present
University of Michigan, Business School, Executive Education Center, Academic Managers Leadership Program	2002

## **HONORS AND AWARDS**

Sigma Phi Alpha (Dental Hygiene honorary)	1979
Phi Kappa Phi (honorary)	1979
The Ohio State University, College of Dentistry Scholarship	1983
Quintessence Award for Clinical Achievement in Periodontology	1985

American Association of Women Dentists Award	1985
Pierre Fauchard Academy Award	1985
Omicron Kappa Upsilon (Dentistry honorary)	1985
National Research Service Award (Individual) National Institute of Dental Research	1988
ICSABER Society, Graduate Forum Top Award for Scientific Presentation	1988
Edward H. Hatton Award for Young Investigators – American Association for Dental Research	1989
Edward H. Hatton Second Place Award for Young Investigators- International Association for Dental Research	1989
American Fund for Dental Health Education Dental Teacher Training Award	1990
Stowell-Orbison Award for Pathologists in training United States and Canadian Academy of Pathology	1991
Career Development Award for Women Faculty The University of Michigan	1995
William K. and Mary Ann Najjar Professor of Periodontics	2002
John T. Hamilton Distinguished Lectureship, Univ. Western Ontario	2003
Fellow, American College of Dentists	2004
Fellow, American Association for the Advancement of Science	2007
Honorary member, Sigma Phi Alpha (Nu Chapter)	2008
Association of Osteobiology (invited membership)	2008
Fellow, International College of Dentists	2009
OSU Periodontal Alumni Achievement Award	2010
William J. Gies Award (presented by the AAP, sponsored by the ADEA for outstanding contributions in Periodontology)	2010
Paula Stern Achievement Award (presented by the American Society for Bone and Mineral Research)	2010
Basic Research in Biological Mineralization Award (presented by the International Association for Dental Research)	2011
The Ohio State University College of Dentistry Distinguished	

Alumni Award	2015
Birnberg Research Medal Award of the Dental Alumni of Columbia University for excellence in dental research	2015
American Academy of Periodontology, Distinguished Scientist	2015
National Academy of Medicine	2015
Fellow, Pierre Fauchard Academy	2016
Edward B. Shils Award for Outstanding Leadership as a Health Educator	2016
Paul Goldhaber Award, Harvard School of Dental Medicine	2016
Alpha Omega (Detroit Alumni Chapter) Honorary Membership	2017
Fellow, American Society for Bone and Mineral Research (ASBMR)	2018
Stephen M. Krane Award, ASBMR (recognition of outstanding achievements in basic, translational, or clinical research in inflammation and/or skeletal matrix biology)	2019
Norton M. Ross Award for Excellence in Clinical Research American Dental Association	2020

### **MEMBERSHIP IN PROFESSIONAL AND RESEARCH SOCIETIES**

American Dental Association (ADA)	1981, current
American Association for Dental Research/ International Association for Dental Research	1985
American Academy of Periodontology (AAP)	1985, current
Omicron Kappa Upsilon Dental Honorary	1985
American Society for Bone and Mineral Research (ASBMR)	1987, current
American Assoc. for the Advancement of Science	1987, current
Comprehensive Cancer Center (Univ. Michigan)	1993, current
International Bone and Mineral Society (IBMS)	1994
American Association for Cancer Research (AACR)	1996, current
Center for Biomedical Engineering (Univ. Michigan)	1999-2001
The Endocrine Society	2000, current
American Dental Education Association (ADEA)	2003, current

European Calcified Tissue Society (ECTS) 2004

Center for Cell Plasticity and Organ Design  
(formerly, Organogenesis Center (Univ. Michigan) 2006, current

International Society for Bone Morphometry (ISBM) 2009-2016

### **TEACHING ACTIVITIES: DIDACTIC**

College of Dentistry Graduate Course (Dentistry 911), The Ohio State University, Spring 1989  
College of Dentistry Continuing Education Course, The Ohio State University, Summer 1989  
Adv. Studies in Anatomy 911, Connective Tissue and Bone, The Ohio State University, Spring 1990  
Adv. Studies in Anatomy 911, Connective Tissue and Bone, The Ohio State University, Spring 1991  
Integrated Clinical Sciences II-530 (D-1), University of Michigan, Spring 1992  
Periodontal Therapy #774 (D-3), University of Michigan, Fall of 1992  
Periodontal Therapy #786 (Grad), University of Michigan, Fall of 1992  
Integrated Clinical Sciences II-530 (D-1), University of Michigan, Spring 1993  
Periodontal Therapy #786 (Grad), University of Michigan, Fall 1993  
Periodontal Therapy #744 (A) (D-3), University of Michigan, Fall 1993  
Dental Hygiene Periodontics #425 (DH4), University of Michigan, Fall 1993  
Dental Hygiene Periodontics #324 (DH3), University of Michigan, Winter 1994  
Integrated Clinical Sciences II-530 (D-1), University of Michigan, Spring 1994  
Geriatrics Course (D-4), University of Michigan, Summer 1994  
Periodontal Therapy #744 (D-3), University of Michigan, Summer 1994  
Periodontal Therapy #786 (Grad), University of Michigan, Fall 1994  
Topics in Human Cellular & Molecular Pathophysiology (Grad), University of Michigan, Fall 1994  
Dental Hygiene #210 (DH-2), University of Michigan, Fall 1994  
Dental Hygiene Periodontics #425 (DH-4), University of Michigan, Fall 1994  
Dental Student Research Elective #850 (D-3,4), University of Michigan, Winter 1995  
Periodontal Therapy #746 (D-3), University of Michigan, Winter 1995  
Mineralized Tissues #606 (Grad), University of Michigan, Winter 1995  
Periodontal Therapy #324 (DH-3), University of Michigan, Winter 1995  
Integrated Clinical Sciences II-530 (D-1), University of Michigan, Spring 1995  
Periodontal Therapy #744 (D-3), University of Michigan, Summer 1995  
Orientation seminar (Grad), University of Michigan, Summer 1995  
Periodontal Therapy #786 (Grad), University of Michigan, Summer 1995  
Case Conference (Grad), University of Michigan, Fall 1995  
Periodontic Literature Seminar (Grad), University of Michigan, Fall 1995  
Dental Hygiene Periodontics #425 (DH-4), University of Michigan, Fall 1995  
Dental Student Research Elective #750/850 (D-3,4), University of Michigan, Winter 1996  
Periodontic Literature Seminar (Grad), University of Michigan, Winter 1996

Periodontal Therapy #746 (D-3), University of Michigan, Winter 1996  
Case Conference (Grad), University of Michigan, Winter 1996  
Integrated Clinical Sciences II-530 (D-1), University of Michigan, Spring 1996  
Periodontal Therapy #744 (D-3), University of Michigan, Summer 1996  
Periodontal Therapy #786 (Grad), University of Michigan, Summer-Fall 1996  
Periodontic Literature Seminar (Grad), University of Michigan, Fall 1996  
Mineralized Tissues #606 (Grad), University of Michigan, Fall 1996  
Cellular and Molecular Pathology (Grad), University of Michigan, Fall 1996  
Dental Hygiene Periodontics #324 (DH-3), University of Michigan, Fall 1996  
Current Literature Seminar (Grad), University of Michigan, Fall 1996  
Case Conference (Grad), University of Michigan, Winter 1997  
Periodontal Therapy #746 (D-3), University of Michigan, Winter 1997  
Dental Student Research Elective #750/850 (D-3,4), University of Michigan, Winter 1997  
Periodontal Therapy #636 (D-2), University of Michigan, Winter 1997  
Gene Expression: Basic and Clinical Aspects #814 (Grad), Winter 1997  
Integrated Clinical Sciences II-530 (D-1), University of Michigan, Spring 1997  
Periodontal Therapy #744 (D-3), University of Michigan, Summer 1997  
Orientation seminar (Grad), University of Michigan, Summer 1997  
Periodontal Therapy #786 (Grad), University of Michigan, Summer-Fall 1997  
Dental Hygiene Periodontics #324 (DH-3), University of Michigan, Fall 1997  
Periodontic Literature Seminar (Grad), University of Michigan, Fall 1997  
Mineralized Tissues #606 (Grad), University of Michigan, Fall 1997  
Current Literature Seminar (Grad), University of Michigan, Fall 1997  
Case Conference (Grad), University of Michigan, Fall 1997  
Case Conference (Grad), University of Michigan, Winter 1998  
Periodontal Therapy #746 (D-3), University of Michigan, Winter 1998  
Dental Student Research Elective #750/850 (D-3,4) University of Michigan, Winter 1998  
Periodontal Therapy #636 (D-2), University of Michigan, Winter 1998  
Anatomy and Cellular Biology #630: Organogenesis (Grad), University of Michigan, Winter 1998.  
Integrated Clinical Sciences II-530 (D-1), University of Michigan, Spring 1998  
Case Conference (Grad), University of Michigan, Spring 1998  
Periodontal Therapy #786 (Grad), University of Michigan, Summer 1998  
Orientation seminar (Grad), University of Michigan, Summer 1998  
Periodontal Therapy #744 (D-3), University of Michigan, Summer 1998  
Periodontal Therapy #636 (D-2), University of Michigan, Winter 1999  
Gene Expression: Basic and Clinical Aspects #814 (Grad), Spring 1999  
Integrated Clinical Sciences II-530 (D-1), University of Michigan, Spring 1999  
Case Conference (Grad), University of Michigan, Spring 1999  
Orientation seminar (Grad), University of Michigan, Summer 1999  
Periodontal Therapy #744 (D-3), University of Michigan, Summer 1999  
Periodontal Therapy #786 (Grad), University of Michigan, Summer 1999

Mineralized Tissues #606 (Grad), University of Michigan, Fall 1999  
Periodontal Therapy #746 (D-3), University of Michigan, Fall 1999  
Molecular & Cellular Biology #500, University of Michigan, Medical School, Winter 1999  
Case Conference (Grad), University of Michigan, Fall/Winter 1999-2000  
Integrated Clinical Sciences II-530 (D-1), University of Michigan, Spring 2000  
Periodontal Therapy #744 (D-3), University of Michigan, Summer 2000  
Periodontal Therapy #786 (Grad), University of Michigan, Summer 2000  
Mineralized Tissues #606 (Grad), University of Michigan, Fall 2000  
Orientation to ultrasonic instrumentation (Grad), University of Michigan, Summer 2000  
Periodontal Therapy #786 (Grad), University of Michigan, Fall 2000  
Periodontal Therapy #746 (D-3), University of Michigan, Fall 2000  
Periodontal Therapy #782 (Grad), University of Michigan, Winter 2001  
Molecular & Cellular Biology #500, University of Michigan, Medical School, Winter 2001  
Gene Expression: Basic and Clinical Aspects #814 (Grad), Spring 2001  
Integrated Clinical Sciences II-530 (D-1), University of Michigan, Spring 2001  
Periodontal Therapy #744 (D-3), University of Michigan, Summer 2001  
Orientation to ultrasonic instrumentation (Grad), University of Michigan, Summer 2001  
Periodontal Therapy #786 (Grad), University of Michigan, Summer 2001  
Mineralized Tissues #606 (Grad), University of Michigan, Fall 2001  
Periodontal Therapy #746 (D-3), University of Michigan, Fall 2001  
Molecular & Cellular Biology #500 (M-1), University of Michigan, Medical School, Winter 2002  
Molecular Biology in Clinical Dentistry: Dental Ed #612 (Grad), University of Michigan, Spring 2002  
Case Conference (Grad), University of Michigan, Spring 2002  
Integrated Clinical Sciences II-530 (D-1), University of Michigan, Spring 2002  
Periodontal Therapy #636 (D-3), University of Michigan, Summer 2002  
Periodontal Therapy #786 (Grad), University of Michigan, Summer 2002  
Mineralized Tissues #606 (Grad), University of Michigan, Fall 2002  
Periodontal Therapy #746 (D-3), University of Michigan, Fall 2002  
Case Conference (Grad), University of Michigan, Fall 2002  
Molecular and Cell Biology 501 (M-1), University of Michigan, Medical School, Winter 2003  
Classic Literature Seminar (Grad), University of Michigan, Spring 2003  
Molecular Biology in Clinical Dentistry: Dental Ed #612 (Grad), University of Michigan, Spring 2003  
Integrated Clinical Sciences II-530 (D-1), University of Michigan, Spring 2003  
Periodontal Therapy #786 (Grad), University of Michigan, Summer 2003  
Periodontal Therapy #636 (D-3), University of Michigan, Summer 2003  
Anatomy and Cellular Biology #630:Organogenesis (Grad), Univ of Michigan, Medical School, 2003  
Normal Cell (M-1), University of Michigan, Medical School, Fall 2003  
Case Conference (Grad), University of Michigan, Fall 2003  
Classic Literature Seminar (Grad), University of Michigan, Fall 2003 & Winter 2004  
Periodontal Therapy #746 (D-3), University of Michigan, Fall 2003  
Integrated Medical Sciences (D-1), University of Michigan, Winter 2004

Periodontal Therapy #636 (D-3), University of Michigan, Spring 2004  
Mineralized Tissues #606 (Grad), University of Michigan, Fall 2004  
Normal Cell (M-1), University of Michigan, Medical School, Fall 2004  
Dental Hygiene Periodontics #324 (DH-3), University of Michigan, Fall 2004  
Case Conference (Grad), University of Michigan, Fall 2004  
Integrated Medical Sciences (D-1), University of Michigan, Winter 2005  
Gene Expression: Basic & Clinical Aspects (814), University of Michigan of Michigan, Winter 2005  
Molecular Biology in Clinical Dentistry (Grad), University of Michigan, Winter 2005  
Periodontal Therapy #636 (D-3), University of Michigan, Spring 2005  
Orientation: Professionalism and Ethics (Grad), University of Michigan, Summer 2005  
Orientation: Professionalism and Ethics (Grad), University of Michigan, Summer 2006  
Mineralized Tissues #606 (Grad), University of Michigan, Fall 2006  
Periodontal Therapy #786 (Grad), University of Michigan, Fall 2006  
Periodontal Therapy #746 (D-3), University of Michigan, Fall 2006  
Periodontal Therapy #636 (D-3), University of Michigan, Winter 2007  
Molecular Biology in Clinical Dentistry (Grad), University of Michigan, Winter 2007  
Orientation: Professionalism and Ethics (Grad), University of Michigan, Summer 2007  
Integrated Medical Sciences (D-2), University of Michigan, Fall 2007  
Mineralized Tissues #606 (Grad), University of Michigan, Fall 2007  
Periodontal Therapy #746 (D-3), University of Michigan, Fall 2007  
Periodontal Therapy #786 (Grad), University of Michigan, Fall 2007  
Periodontal Therapy #636 (D-3), University of Michigan, Winter 2008  
Classic Literature Seminar (Grad), University of Michigan, Winter 2008  
Molecular Biology in Clinical Dentistry (Grad), University of Michigan, Winter 2008  
Orientation: Professionalism and Ethics (Grad), University of Michigan, Summer 2008  
Integrated Medical Sciences (D-2), University of Michigan, Fall 2008  
Mineralized Tissues #606 (Grad), University of Michigan, Fall 2008  
Periodontal Therapy #786 (Grad), University of Michigan, Fall 2008  
Advanced Oral Pathology #711 (D-3), University of Michigan, Fall 2008  
Dental Hygiene #425 (Undergrad), University of Michigan, Fall 2008  
Program in Integrated Biomedical Science (PIBS) 503 Course on Research  
Responsibilities and Ethics (Medical School), University of Michigan, Fall 2008  
Periodontal Therapy #746 (D-3), University of Michigan, Fall 2008  
Program in Integrated Biomedical Science (PIBS) 503 Course on Research  
Responsibilities and Ethics (Medical School), University of Michigan, Winter 2009  
Periodontal Therapy #636 (D-3), University of Michigan, Winter 2009  
Classic Literature Seminar (Grad), University of Michigan, Winter 2009  
Molecular Biology in Clinical Dentistry (Grad), University of Michigan, Winter 2009  
Orientation: Professionalism and Ethics (Grad), University of Michigan, Summer 2009  
Integrated Medical Sciences (D-2), University of Michigan, Fall 2009  
Mineralized Tissues #606 (Grad), University of Michigan, Fall 2009  
Periodontal Therapy #786 (Grad), University of Michigan, Fall 2009



Periodontal Therapy #746 (D-3), University of Michigan, Fall 2009  
Advanced Oral Pathology #711 (D-3), University of Michigan, Fall 2009  
Periodontal Therapy #636 (D-3), University of Michigan, Winter 2010  
Molecular Biology in Clinical Dentistry (Grad), University of Michigan, Winter 2010  
Orientation: Professionalism and Ethics (Grad), University of Michigan, Summer 2010  
Integrated Medical Sciences (D-2), University of Michigan, Fall 2010  
Mineralized Tissues #606 (Grad), University of Michigan, Fall 2010  
Periodontal Therapy #786 (Grad), University of Michigan, Fall 2010  
Advanced Oral Pathology #711 (D-3), University of Michigan, Fall 2010  
Dental Hygiene Periodontics #324 (DH-3), University of Michigan, Fall 2010  
Periodontal Therapy #746 (D-3), University of Michigan, Fall 2010  
Dent 538 Musculoskeletal System (D-1), University of Michigan, Winter 2011  
Periodontal Therapy #636 (D-3), University of Michigan, Winter 2011  
Periodontal Therapy #786 (Grad), University of Michigan, Summer 2011  
Mineralized Tissues #606 (Grad), University of Michigan, Fall 2011  
Periodontal Therapy #609 (D-2), University of Michigan, Fall 2011  
Periodontal Therapy #636 (D-2), University of Michigan, Fall 2011  
Advanced Oral Pathology #711 (D-3), University of Michigan, Fall 2011  
Periodontal Therapy #746 (D-3), University of Michigan, Fall 2011  
Molecular Biology in Clinical Dentistry #612 (Grad), University of Michigan, Winter 2012  
Periodontal Therapy #650 (D-2), University of Michigan, Winter 2012  
Dent 538 Musculoskeletal System (D-1), University of Michigan, Winter 2012  
Periodontal Therapy #609 (D-2), University of Michigan, Summer 2012  
Periodontal Therapy #786 (Grad), University of Michigan, Summer 2012  
Organogenesis #680 (Grad), University of Michigan, Fall 2012  
Molecular Biology in Clinical Dentistry #612 (Grad), University of Michigan, Winter 2013  
Mineralized Tissues #606 (Grad), University of Michigan, Fall 2013  
Advanced Oral Pathology #711 (D-3), University of Michigan, Fall 2013  
Dent 538 Musculoskeletal System (D-1), University of Michigan, Winter 2014  
Molecular Biology in Clinical Dentistry #612 (Grad), University of Michigan, Winter 2014  
Dent 524 Intro to Pathways (D-1), University of Michigan, Fall 2014  
Advanced Oral Pathology #711 (D-3), University of Michigan, Fall 2014  
Molecular Biology in Clinical Dentistry #612 (Grad), University of Michigan, Winter 2015  
Dent 538 Musculoskeletal System (D-1), University of Michigan, Winter 2015  
Dent 524 Intro to Pathways (D-1), University of Michigan, Fall 2015  
Mineralized Tissues #606 (Grad), University of Michigan, Fall 2015  
Advanced Oral Pathology #711 (D-3), University of Michigan, Fall 2015  
Cancer biology #553 (Grad), University of Michigan, Medical School, Fall 2015.  
Dent 538 Musculoskeletal System (D-1), University of Michigan, Winter 2016  
Molecular Biology in Clinical Dentistry #612 (Grad), University of Michigan, Winter 2016  
Dent 524 Intro to Pathways (D-1), University of Michigan, Fall 2016

LSA U151: Introduction of Dentistry, An overview of the University of Michigan, School of Dentistry, Winter 2017  
Dent 538 Musculoskeletal System (D-1), University of Michigan, Winter 2017  
General Practice Residency/Hospital Dentistry, University Michigan, Anti-resorptives and dental care, Winter 2017.  
Molecular Biology in Clinical Dentistry #612 (Grad), University of Michigan, Winter 2017  
Dent 524 The Importance of Scholarship in Dentistry (D-1), University of Michigan, Fall 2017  
LSA U151: Introduction of Dentistry, An overview of the University of Michigan, School of Dentistry, Winter 2017  
Molecular Biology in Clinical Dentistry #612 (Grad), University of Michigan, Winter 2018  
Dent 538 Musculoskeletal System (D-1), University of Michigan, Winter 2018  
Dent 524 The Importance of Scholarship in Dentistry (D-1), University of Michigan, Fall 2018  
Mineralized Tissues #606 (Grad), University of Michigan, Fall 2018  
Dent 538 Musculoskeletal System (D-1), University of Michigan, Winter 2019  
Molecular Biology in Clinical Dentistry #612 (Grad), University of Michigan, Winter 2019  
General Practice Residency/Hospital Dentistry, University Michigan, Anti-resorptives and dental care, Winter 2019.  
Dent 524 The Importance of Scholarship in Dentistry (D-1), University of Michigan, Fall 2019  
Mineralized Tissues #606 (Grad), University of Michigan, Fall 2019  
Molecular Biology in Clinical Dentistry #612 (Grad), University of Michigan, Winter 2020  
Dent 538 Musculoskeletal System (D-1), University of Michigan, Winter 2020  
Molecular Biology in Clinical Dentistry #612 (Grad), University of Michigan, Winter 2021  
Dent 538 Musculoskeletal System (D-1), University of Michigan, Winter 2021  
Mineralized Tissues #606 (Grad), University of Michigan, Fall 2021

### **TEACHING ACTIVITIES: COURSE DIRECTOR**

Dental Student Research #750/850 (D-3, D-4 elective), Univ of Michigan, 1995  
Dental Student Research #750/850 (D-3, D-4 elective), Univ of Michigan, 1996  
Dental Student Research #750/850 (D-3, D-4 elective), Univ of Michigan, 1997  
Dental Student Research #750/850 (D-3, D-4 elective), Univ of Michigan, 1998  
Mineralized Tissues #606 (Grad), University of Michigan, 1999  
Mineralized Tissues #606 (Grad), University of Michigan, 2000  
Mineralized Tissues #606 (Grad), University of Michigan, 2001  
Mineralized Tissues #606 (Grad), University of Michigan, 2002  
Mineralized Tissues #606 (Grad), University of Michigan, 2003  
Independent Studies in Advanced Periodontics (D-3, D-4 elective), Univ of Michigan, 2012  
Dentistry 625: Pathways – Leadership in Dentistry, Univ Michigan, 2019  
Dentistry 625: Pathways – Leadership in Dentistry, Univ Michigan, 2020  
Dentistry 625: Pathways – Leadership in Dentistry, Univ Michigan, 2021  
Dentistry 625: Pathways – Leadership in Dentistry, Univ Michigan, 2022

## **TEACHING ACTIVITIES: CLINICAL**

D-3 Clinics 1/2 d/wk 1/92-3/92  
Graduate Periodontics Clinics 1/2 d/wk 1/92-3/92  
Graduate Periodontics Clinics 1 d/wk 3/92-5/92  
D-1 Laboratory and Clinics 1.5 d/wk 5/92-7/92  
D-3 Clinic 1/2 d/wk 7/92-2/93  
Graduate Periodontics Clinics 1/2 d/wk 7/92-2/93  
Graduate Periodontics Clinics 1 d/wk 2/93-5/93  
D-1 Laboratory and Clinics 1.5 d/wk 5/93-7/93  
D-3 clinic 1/2 d/wk 7/93-4/94  
Graduate Periodontics Clinics 1/2 d/wk 7/93-4/94  
D-1 Laboratory and Clinics 1.5 d/wk 5/94-7/94  
Clinics on-call 1/2 d/wk 1/94-8/94  
D-3 Clinic 1/2 d/wk 7/94-4/95: Clinic Mentor for 29 D-3 students  
Graduate Periodontics Clinics 1/2 d/wk 7/94-4/95  
Clinics on-call 1 d/wk 9/94-9/97  
D-1 Laboratory and Clinics 1.5d/wk 5/95-7/95  
D-3 Clinic 1.0 d/wk 7/95-9/95  
D-3 Clinic 1/2 d/wk 9/95 - 4/96  
Graduate Periodontics Clinics 1/2 d/wk 9/95 - 4/96  
D-1 Laboratory and Clinics 1.5 d/wk 5/96-7/96  
D-3 Clinic 1/2 d/wk 7/96 - 9/96  
Graduate Periodontics Clinics 1/2 d/wk 7/96 - 9/96  
D-3 Clinic 1/2 d/wk 1/97 - 4/97  
Graduate Periodontics Clinics 1/2 d/wk 1/97 – 8/97  
Comprehensive Care Clinics 1/2 d/wk 5/97 – 8/97  
Graduate Periodontics Clinics ½ d/mo 9/97 – 5/98  
Comprehensive Care Clinics ½ d/wk 6/98-8/98  
Graduate Periodontics Clinics ½ d/wk 6/98-8/98  
Graduate Periodontics Clinics 1d/wk 5/99-6/99  
Comprehensive Care Clinics 1/2 d/wk 6/99-12/99  
Graduate Periodontics Clinics 1/2 d/wk 6/99-12/99  
Comprehensive Care Clinics 1d/wk 1/00-5/00  
Comprehensive Care Clinics 1d/wk 5/00-4/02  
Comprehensive Care Clinics 1/2d/wk 1/03-8/05  
Comprehensive Care Clinics 1d/mo 9/06-08/12

## **STUDENT/FELLOW RESEARCH ADVISEMENT**

<b>Type of Student</b>	<b>Name</b>	<b>Project Responsibilities</b>
Dental Student	Derik De Coninck	Summer research project- mentor, 1992
Dental Student	Joe Doctora	Summer research project- mentor, 1992
Undergraduate Research Opportunity Program Student	Stephanie Tucker	Course director for research Experience, 1993
Dental Student	George Mandelaris	Summer research project-mentor, 1993
Visiting Scientist	Rahime Nohutcu, D.D.S., Ph.D.	Independent research -co-advisor, 1993-95 and 2000
M.S. Degree Student	Dale Sweeney, D.D.S.	Thesis advisor, 1993-1994
M.S. Student	Steve Wolf, D.D.S.	Thesis advisor, 1994
M.S. Degree Student	Juan Silva, D.D.S.	Thesis committee member, 1994
Dental Student	Nader Moavenian	AADR fellowship-advisor, 1994-1995
Work Study Student	Rebecca Schrlitz	Laboratory instruction, 1994
Work Study Student	Kant Shah	Laboratory instruction, 1994
High School Minority Program Student & Undergraduate Student	Samir Patel	Research advisor, 1994 Laboratory supervision, 1994-1997
Work Study Student	Shannon Elliot	Laboratory instruction, 1994
M.S. Degree	Don Anderson, D.D.S.	Thesis committee member, 1994-1996
Graduate Fellow	Cheryl Lee, M.D.	Research Co-Advisor, 1994-1995
Graduate Fellow	Suli Massini, D.D.S.	Research Advisor, 1994
Undergraduate Research Opportunity Program	Cara Cotes	Course director for research experience, 1995
Post-doctoral student	Ajay Soni, D.D.S.	Independent research- mentor, 1995
Ph.D. Degree Student Pharmacology	Timothy O'Connell	Committee member, Ph.D. dissertation defense, 1995
Work Study Student	Katrina Ebersbach	Laboratory instruction, 1995
Work Study Student	Carla Skaates	Laboratory instruction, 1995
Ph.D. Degree Student	Andrea Groene	Committee member, Ph.D. Defense, The Ohio State University, 1996
Post-doctoral Fellow	Salman Choudhary, Ph.D.	Research supervisor, 1996
M.S. Degree Student	Maria Korsnes, D.D.S.	Committee member, 1996-1998
M.S. Student	James Papp, D.D.S.	Committee member, 1996-1998
Senior Res. Associate	Kristian Dougherty, Ph.D.	Research mentor, 1996- 1999
Dental Student	Allan Padbury, Jr.	Research mentor, 1996-1998
Research Fellow	Jing-Mei Ling	Research mentor, 1997-1998
High School Minority Program Student	Andrea Watkins	Research mentor, 1997-1998
Ph.D. Student	Eric Blomme, D.V.M.	Committee member, Ph.D. Defense, The Ohio State University, 1998

M.S. Student	Taylor Hoang, D.D.S.	Committee member, 1998
M.S. Student	Pintippa Bunyaratavej, D.D.S.	Committee member, 1998-2000
Ph.D. Student	Somjin Ratanasathien, D.D.S.	Dissertation committee member, 1997-2000
Ph.D. Student	Hen-li Chen, D.D.S.	Laboratory Rotation supervisor, Winter 1997; Ph.D. Advisor 1997-2001
Ph.D. Student	HJ Ouyang, D.D.S.	Ph.D. Committee member, 1997-2000
Research Fellow	Adriane Concus, M.D.	Research Co-mentor, 1997- 1999
High School Student	Chris McCloughlan	Research mentor, 1999
Undergrad Research Opportunity Program (UROP) student	Vicky Li	Research mentor, 1999-2000
Research Fellow/Ph.D. Student	Burak Demiralp, D.D.S.	Research mentor, PhD co-advisor, Hacettepe University, 1999-2001
Ph.D. Student	Eben Alsberg	Dissertation committee member, Dept. of Biomedical Engineering, 1999-2002
Undergraduate Research Opportunity Student (UROP)	Heather Cronovich	Research mentor, 2000-2001
Undergraduate Research Opportunity Student (UROP)	Maria Demashkieh	Research mentor, Sponsor for Howard Hughes/UROP Summer fellowship award, 2000
Ph.D. Student	Jian Zhang	Dissertation committee member, Unit for Laboratory Animal Medicine, 2000-2001
M.S. Student	Allan Padbury, Jr., D.D.S.	M.S. Advisor, 2000-2003
Research Fellow	Richard Mollard, Ph.D.	Research mentor, 2000
Ph.D. Student	Andrew Fribley	Academic Advisor, Oral Health Sciences Ph.D. 2000-2001
Ph.D. Student	Majd Zayzafoon, M.D.	Ph.D. Dissertation committee member, Michigan State University, Dept. of Physiology, 2000-2001
Ph.D. Student	Abraham Schneider, D.D.S.	Ph.D. Advisor, 2001 – 2005 *Received ASBMR Harold Frost, Young Investigator Award, August 2004
Ph.D. Student	Rachel Maddox	Ph.D. Qualifying committee, Dept. Biomedical Engineering, 2001
Ph.D. Student	Maureen Connell	Ph.D. Preliminary exam committee, Dept. of Pharmaceutics, 2001
Ph.D. Student	Ken Kozloff	Ph.D. Preliminary exam committee, Dept. of Biomedical Engineering, 2001 Ph.D. Dissertation committee, Dept. of Biomedical Engineering, 2004

Ph.D. Student	Tolga Tozum, D.D.S.	Research mentor, PhD co-advisor, Hacettepe University, 2001-2002
Undergraduate Research Opportunity Student (UROP)	Mark Oppenlander	Research mentor, 2001-2002
Ph.D. Student	Rachel Thomas	Ph.D. Examination Committee, University of Melbourne, Australia 2002
Ph.D. Student	Yen-Chen Huang	Ph.D. Dissertation committee member, Dept. of Biomedical Engineering, 2002
M.S. Student Ph.D. Student	Glenda Pettway	Research mentor, Dept. of Biomedical Engineering, directed research experience and Master's degree, 2002-2003 Co-Mentor, PhD Biomedical Engineering, 2003-2007 *Received ASBMR Young Investigator Travel award 2004, and European Calcified Tissue Society Young Investigator award 2004, UNCF Merck Graduate Student Fellowship 2006
Undergraduate Research Opportunity Student (UROP)	Erin Ealba	Research mentor, 2001-2004
Visiting Research Investigator	Fernanda Boabaid, D.D.S.	Research co-advisor, 2002-2003
Ph.D. Student	Ting Wang, D.D.S.	Ph.D. Dissertation committee member, Oral Health Sciences Ph.D. Program, 2002-2004
Ph.D. Student	Kyungsup Shin	Ph.D. Qualifying committee, Dept. Biomedical Engineering, 2002-2003
Ph.D. Student	Alisha Diggs	Ph.D. Qualifying committee, Dept. Biomedical Engineering, 2002-2003
Ph.D. Student	Sergiu Botolin	Ph.D. Dissertation committee member, Michigan State University, Department of Physiology, 2003-2006
Ph.D. Student	Joanna Hooten	Academic Advisor OHS PhD Program
M.S. Student	Heather Huffer	Thesis Committee Member 2004
UROP Student	Ana Mattos	Research Advisor, 2003-2006
Ph.D. Student	Joanna Hooten	Research rotation advisor, Oral Health Sciences Ph.D. program, 2004
Ph.D. Student	Yong-Hee Chun, D.D.S.	Research rotation advisor, Oral Health Sciences Ph.D. program, 2004 Dissertation Committee Member, 2007-2010
Ph.D. Student	Kathleen Neiva, D.D.S	Research rotation advisor, Oral Health Sciences Ph.D. program, 2004
Pre-Dental Student	Chen Chen	Research Advisor, 2002-2004
Summer Student	Allison Carey	Research Advisor, 2004
Post-doctoral Fellow	Junro Yamashita, D.D.S., Ph.D.	Research Advisor, 2004-2006

Ph.D. Student	Zhuoran Zhao, D.D.S.	Ph.D. Dissertation committee member, Oral Health Sciences Ph.D. program, 2004-2006
Ph.D. Student	Brad Henson, D.D.S.	Ph.D. Dissertation committee member, Oral Health Sciences Ph.D. program, 2003-2006
M.S. Student	Jill Bashutski, D.D.S.	Research Advisor, 2005-2009 *received AAP Foundation, Tarrson Regeneration Scholarship, 2005-2008 *received AAP Foundation: Richard J. Lazzara Implant Fellowship *received the Volpe 1 <sup>st</sup> place award for clinical research 2009 *received the AAP Orban 1 <sup>st</sup> place award for clinical research 2009 *received an ASBMR Annual Meeting Young Investigator Award 2010
Ph.D. Student	Julie Marchesan	Ph.D. rotation student, Oral Health Sciences Ph.D. program, 2006 Ph.D. dissertation committee member, 2008-2013
Post-doctoral Fellow	Jinhui Liao, Ph.D.	Research Advisor, 2005-2008
Post-doctoral Fellow	Xin Li, Ph.D	Research Advisor, 2006-2010 *received DOD Prostate Cancer Training Award, 2008-2010 *received Endocrine Fellows Foundation award to attend forum on Metabolic Bone Disease, 2008 *received the Harold Frost/ASBMR Young Investigator Award 2009 *received an ASBMR Annual Meeting Young Investigator Award 2009 *received a Cancer & Bone Society Young Investigator Award
D.D.S./Ph.D. Student	Chad Novince	Ph.D. rotation student, Oral Health Sciences Ph.D. program, 2006, Research advisor 2007-2011 *received a Gordon Research Conference (Bones and Teeth) Travel Award, 2009 *First place award in the AADR Hatton Research Competition Senior Category, 2010 *received an NIH individual F30 fellowship 2010-2011 *received an ASBMR Young Investigator Travel Award 2010 *received Endocrine Fellows Foundation award to attend forum on Metabolic Bone Disease, 2010
Ph.D. Student	Betsy Van Tubergen, D.D.S.	Academic Advisor, OHS PhD Program Rotation advisor, 2007
Post-doctoral fellow	Flavia Pirih, DDS, PhD	Research Advisor, 2006-2009

		*received Endocrine Fellows Foundation award to attend forum on Metabolic Bone Disease, 2007
		*received Regenerative Sciences Training Fellowship, 2007-2008
		*received AAP Educators Fellowship, 2007
		*received the Midwest Society of Periodontology 1 <sup>st</sup> place award for graduate student research, 2009
		*received ASBMR Young Investigator Award, 2009
Ph.D. Student	Kate Dooley	Preliminary Exam Committee, Dept. Chemistry, Literature, Sciences and Arts (LSA), 2007 Dissertation Committee, 2010
Ph.D. Student	Christie Springstead	Ph.D. rotation student, Oral Health Sciences Ph.D. program, 2007
DDS/Ph.D. Student	Erica Scheller	Ph.D. dissertation committee, 2008-2011
Ph.D. Student	Sarah Ann Arrington	Ph.D. Dissertation committee, Department of Orthopedics/Physiology Program SUNY University Medical University Syracuse, New York, 2007
M.S. Student	Eduardo Ghaname, DDS	Ph.D. rotation student, Oral Health Sciences Ph.D. program, 2008, M.S. thesis advisor 2009-2012 * AAE/Dentsply Resident Award, 2009
Post-doctoral fellow	Serkin Park, DDS, PhD	Research Advisor 2008-2012 *received DOD Prostate Cancer Training Award, 2010-2012 *received an ASBMR travel award 2011 *received an Endocrine Fellows Foundation Award 2011 *received an IBMS travel award 2011 *received a DOD Prostate Cancer Hypothesis Award, 2012 *received an ASBMR young investigator award 2012
Ph.D. Student	Fabiana Soki, DDS	Academic Advisor, OHS PhD Program, Dissertation advisor 2009-2014 *received a Cancer Induced Bone Disease Young Investigator travel award, 2012 *received the overall top oral abstract presentation at the IBMS/Cancer Induced Bone Disease meeting, Lyon France, 2012 *received first place UM SOD Research Day Postdoctoral & Staff category, 2013



		**received an NIH individual F32 fellowship 2013-2015 *received an ASBMR young investigator award 2013
Ph.D. Student	Ethan Daley	Preliminary Exam Committee, Dept. Biomedical Engineering, 2009 Dissertation committee 2010-2013
Ph.D. Student	Xu Qian, DDS	Ph.D. rotation student, Oral Health Sciences Ph.D. program, 2010
Visiting Professor/Post-doctoral fellow	Sun Wook Cho, MD	Research advisor 2010-2012 *received a presidential poster award from the Endocrine Society 2011 *received a travel award from the ASBMR 2011 *received a young investigator award from the ASBMR 2012
DDS/Ph.D. Student	Kathryn Ritchie	Ph.D. rotation student, Oral Health Sciences Ph.D. program, 2011
Undergraduate student	Matthew Eber	Research Advisor, Summer 2009, 2010, 2011
Ph.D. student	Michael Friedman	Preliminary exam committee, Dept. Biomedical Engineering, 2011, Dissertation committee, 2011-2015
Ph.D. Student	Benjamin Sinder	Ph.D. qualifying exam committee, Biomedical Engineering, 2012, Ph.D. dissertation committee, Biomedical Engineering, 2012-2014 Post-doctoral fellow research advisor 2014-2017 *received DOD Prostate Cancer Postdoctoral Fellowship Award, 2016
Undergraduate Student, pre-dental student, DDS/PhD student	Megan Michalski	Research Advisor Summer 2008, Health Sciences Dimensions Research Program Cornell College, Mount Vernon, Iowa Research Advisor, University of Michigan 2009-2010 Academic Advisor, 2011-2012 *received travel award from Aegean Conferences Osteoimmunology meeting Santorini Greece June 2010 *received an NIH individual F30 fellowship, 2015 *received ASBMR travel award 2017 DDS/PhD conferred 2017
M.S. Student/Resident	Jia Chang, DDS, MS, PhD	Research Advisor, 2011-2014
DDS/Ph.D. Student	Min Oh	Ph.D. rotation student, Oral Health Sciences Ph.D. program, 2012
Post-doctoral fellow	Saja Al-Dujaili, PhD	Research Advisor, 2012-2014
DMSc Student	Chin-wei (Jeff) Wang, DDS	Oral Qualifying Exam Committee, Harvard School of Dental Medicine, 2012-2013

Post-doctoral fellow	Jacqueline Jones-Triche	Research Advisor, 2012-2014 *received DOD Prostate Cancer Postdoctoral Fellowship Award, 2014
Pre-dent student	Anna Seydel	Research Advisor, summer research 2013,2016
PhD Student	Danielle Rux	Thesis committee, Program in Integrated Bioscience, Univ. Michigan Medical School, 2013-2016
PhD Student	Ming Dang	Ph.D. qualifying exam committee, Biomedical Engineering, 2014 Ph.D. Dissertation committee, 2016- 2018
DDS/PhD Student	Laura Zweifler	Ph.D. rotation student, Oral Health Sciences Ph.D. program, 2016. Ph.D. Dissertation committee, Co-advisor, 2017-present. *received NIH F30 fellowship award, 2018
DDS/PhD Student	Alexandra Oklejas	Ph.D. Dissertation committee member, 2019
DDS/PhD Student	Christina Jones	Ph.D. rotation student, Oral Health Sciences Ph.D. program, 2019.
PhD Student	Ligia B. Schmitd	Ph.D. Dissertation committee member, 2020-2022
PhD Student	Rahasudha Kannan	BME PhD student, Co-Advisor, 2020 *received NIH F30 fellowship award, 2020
Post-doctoral Fellow	Veronica Mendonza	Research Co-Advisor, 2019-present *received DOD Career development award
PhD Student	Margaret Durdan	Ph.D. Dissertation committee member Michigan Medicine PIBS
Post-doctoral Fellow	Lena Batoon	Research Co-Advisor, 2021-present

## **SPECIAL INSTRUCTIONAL MATERIALS/ASSIGNMENTS**

Update Periodontal Examination section of Periodontal Instruction Laboratory Manual (D-1)	1992
Videotape (with M. MacNeil) “Scaling and Root Planing” for undergraduate teaching and continuing education	1993
Classroom Observation Project Development: Program initiated for faculty of the School of Dentistry for the goal of improving teaching and student learning.	1997
Individual student remediation in Clinical Periodontics	2000

## **COMMITTEE ASSIGNMENTS AND OFFICES DEPARTMENTAL COMMITTEES OR PROGRAMS**

Graduate Student Selection Committee Department Periodontics/Prevention/Geriatrics	1992-1997
Search Committee Graduate Periodontal Clinic Director Department Periodontics/Prevention/Geriatrics	1995
Search Committee Faculty Member Department Periodontics/Prevention/Geriatrics	1995-1997
Task Force for Clinical Efficient Teaching in Periodontics Department Periodontics/Prevention/Geriatrics	1995
Chair, Committee for Evaluation and Reappointment of Faculty member to Clinical Assistant Professor	1997
Departmental Advisory Committee	1997-1998
Search Committee Faculty Member Department Periodontics/Prevention/Geriatrics	1998-1999
Departmental Advisory Committee	2001
Chair, Committee for Three Year Evaluation of Tenure Track Faculty Member	2001
Mentoring committee	2001
Chair, Promotion and Tenure Review for Assistant Professor	2001
Chair, PPG/POM Department Advisory Group	2002-2012
Ex-officio, PPG/POM Mentoring Committee	2002-2012
Chair, PPG Search Committee for Clinical Assistant Professor	2004

### **SCHOOL COMMITTEES OR PROGRAMS**

Student Council Vice President, The Ohio State University, College of Dentistry	1983-1985
Cost Containment Committee, The Ohio State University, College of Dentistry	1987
Post College Assembly, Table Clinic Judging Committee, The Ohio State University, College of Dentistry	1989
Judge, The Ohio State University vs. University of Michigan, Dental Student Research Duel	1991
Judge, The Ohio State University vs. University of Michigan, Dental Student Research Duel	1992
Ph.D. Education Committee, University of Michigan School of Dentistry	1992-1993
Research Committee, University of Michigan, School of Dentistry	1992-1993
Student Research Committee, University of Michigan, School of Dentistry	1992-1996
Dental Hygiene Futuring Committee, University of Michigan, School of Dentistry	1994
Judge, Table Clinics, University of Michigan, School of Dentistry	1994
Judge, The Ohio State University vs. University	

of Michigan, Dental Student Research Duel	1994
Advisory Committee for Institutional Dentist Scientist Award Application, University of Michigan, School of Dentistry	1994-1995
Academic Review Board, University of Michigan, School of Dentistry	1994-1997
Curriculum Subcommittee on Revision and Innovation - Basic Science, University of Michigan, School of Dentistry	1995-1996
Co-Editor, Dental Student Research Publication, The University of Michigan, School of Dentistry	1996-1997
Search Committee Faculty Member, Department of Oral Surgery, Oral Pathology and Oral Medicine	1996-1998
Classroom Observation Project Originator and Facilitator	1997
Director: Center for Biorestitution of Oral Health, The University of Michigan, School of Dentistry	1996-2002
Ph.D. Admissions Committee, University of Michigan, School of Dentistry (Chair of committee)	1998-2002
Search Committee for Associate Dean, University of Michigan, School of Dentistry (Chair of committee)	1999
Judge, Research Day, University of Michigan, School of Dentistry	2001
Endowed Professor Review Committee, University of Michigan, School of Dentistry	2001
Campaign Planning Task Force University of Michigan, School of Dentistry	2001
Strategic Planning Committee, University of Michigan, School of Dentistry	2001-2002
Judge, Research Day, University of Michigan, School of Dentistry	2002
Member, University of Michigan, School of Dentistry Chairs Committee	2002-present
Judge, Research Day, University of Michigan, School of Dentistry	2003-2004
Research Cores & Facilities Advisory Group School of Dentistry	2004-2005
Chairs group to review the Clinic Billing Office	2005
Dental Faculty Associates PAC Committee, University of Michigan	2006-2007
International Affairs Committee, School of Dentistry	2006
Faculty Funding Model Committee, School of Dentistry (Chair)	2006-2007
Clinic Implementation Team, School of Dentistry	2009-2010
Judge, Research Day, University of Michigan, School of Dentistry	2007-2012

Grand Rounds/Case Studies Committee, University of Michigan	2010-2012
ITDP Review Committee, University of Michigan, School of Dentistry	2011
Curriculum Committee, University of Michigan, School of Dentistry	2012
Search Committee, Faculty Position in Distributed Health Technologies, University of Michigan, School of Dentistry (Chair)	2012
Search Committee, Executive Vice Dean for Academic Affairs, Michigan Medicine	2021

## UNIVERSITY COMMITTEES

Council of Graduate Students, Representative for The Ohio State University, College of Dentistry	1985-1988
American Association for Higher Education, Peer Review of Teaching Representative for The University of Michigan, School of Dentistry	1996-1998
Rackham Graduate School Academic Appeals Panel	1996-1999
Rackham Graduate School Divisional Review Board Biological and Health Sciences	1996-1998
Office of the Vice President for Research: Ad hoc reviewer	1996
Faculty Advisory Committee for Provost's Teaching Seminar Center for Research on Learning and Teaching	1997-1998
Operating Committee, Center for Biomedical Engineering Research, University of Michigan	1999-2001
Faculty Orientation Facilitator, Center for Research on Teaching and Learning	1999-2000
Internal Advisory Board, University of Michigan Bone Center (NIAMS funded)	2000-2001
Associate Director, University of Michigan Bone Center (NIAMS funded)	2002-2003
Task force on Identifying the Director of the University Laboratory Animal Medicine Unit	2000
University of Michigan Biomedical Research Council	2000-2003
Search Advisory Committee (Chair), Dean School of Dentistry University of Michigan	2002
Faculty Search Committee, University of Michigan, Medical School, Geriatrics Center, Biogerontology	2002-2003
Internal Review Committee to evaluate the College of Engineering	2004
Musculoskeletal Research Core Center: Associate Director, Advisory Board; Bone Center Executive Committee Member; Bone Center Education Committee Chair	2002-2006
University of Michigan, Biomedical Engineering, Executive group member of the NASA Project	2003-2007
Faculty Search Committee, University of Michigan, Medical School, Geriatrics Center, Biogerontology	2004-2005

University of Michigan, Pepper Center Operation Committee Institute of Gerontology	2004-2007
University of Michigan, Conflict of Interest Review Committee Office of the Vice President for Research	2007-2010
University of Michigan, Animal Space Committee Office of the Vice President for Research	2010
University of Michigan, Senior Advisory Council, SPORE in Head and Neck Cancer	2012-2016
University of Michigan, Internal Advisory Panel, Michigan Integrative Musculoskeletal Health Center (MiMHC)	2013-present
University of Michigan, Gender in Science and Engineering Committee	2013-present
University of Michigan, APG Development Subcommittee (Chair 2016-2017)	2013-2017
University of Michigan, Life Sciences Inst., Internal Advisory Committee	2013-present
University of Michigan, Kinesiology Dean Search Advisory Committee	2015
University of Michigan, Comprehensive Cancer Center, Internal Advisory Board	2016-2018
University of Michigan, Inst for Social Research, Executive Committee	2016-2018
University of Michigan, School of Music, Theatre, and Dance, Dean Search Advisory Committee	2017-2018
University of Michigan, Search Committee, Vice President/Chief Information Officer	2018
University of Michigan, APG Biosciences Subcommittee	2017
University of Michigan, APG Budget Subcommittee	2018-2019
University of Michigan, APG Advisory Group on Rackham Financial Aid	2019
University of Michigan, Search Committee (Chair), Vice President/Chief Development Officer	2018
University of Michigan, Search Committee Associate Vice Provost for Academic and Faculty Affairs and Senior Director for Academic Human Resources	2019
University of Michigan, APG Advisory Group on Diversity, Equity, Inclusion	2019-2020
University of Michigan, Campaign Planning Leadership group (Co-Chair)	2019-present
University of Michigan, Fall 2020 Planning Coordinating Committee	2020
University of Michigan, Committee on Performance, Studio, Lab courses	(Chair) 2020
University of Michigan, APG Subcommittee on Professional Standards	(Chair) 2020-2021
University of Michigan, Provost Search Advisory Committee	2021-2022

## **NATIONAL/INTERNATIONAL COMMITTEES**

Council of Students, Secretary, American Association of Dental Schools	1984-1985
Session Co-chairman, Mineralized Tissue Poster Discussion Session, International Association for Dental Research Annual Meeting, Cincinnati, OH	1990
Membership Committee, Graduate Student Research Group Subcommittee, American Association for Dental Research	1990-1991

Session Co-chairperson, Mineralized Tissue Oral Session, The International Association for Dental Research Annual meeting, Acapulco, Mexico	1991
Session Assistant, American Academy of Periodontology Annual Meeting, Orlando, Florida	1992
Delegate from Chi Chapter to Supreme Chapter, Omicron Kappa Upsilon Annual Meeting, San Antonio, Texas	1995
Student Fellowships Committee, The American Association for Dental Research	1994-1997
Liaison with Component Chapters Committee, Omicron Kappa Upsilon Supreme Chapter	1995-1996
Session Chairperson, Mineralized Tissue Oral Session, International Association for Dental Research Annual meeting, San Francisco, CA	1996
American Society for Bone and Mineral Research, Scientific Program Committee	1997
Session Chair, American Society for Bone and Mineral Research	1997
Session Chairperson, Mineralized Tissue, International Association for Dental Research, Nice, France	1998
Professional Practice Committee, American Society for Bone and Mineral Research	1999-2002
Panel member, NIH Consensus Development Conference On Osteoporosis Prevention, Diagnosis, and Therapy	2000
Endocrine Society Representative at the International Science and Engineering Fair, Detroit Michigan	2000
Session Chair, American Society for Bone and Mineral Research	2000
Session Chair, American Association for Dental Research	2001
American Society for Bone and Mineral Research, Scientific Program Committee	2001
FASEB Conference: Steroids and Bone Session Co-Chair	2001
International Association for Dental Research Vice President, Mineralized Tissues Section	2002
American Society for Bone and Mineral Research, Scientific Program Committee	2002
International Association for Dental Research President Elect, Mineralized Tissues Section	2002-2003
ASBMR, Annual Session Chair, Basic Science session	2002
ASBMR, Symposium Chair, Skeletal Metastasis	2002
American Society for Bone and Mineral Research,	

Scientific Program Committee	2003
International Association for Dental Research President, Mineralized Tissues Section	2003-2004
NIH: Oral Medicine & Biology-2 Study Section	2001-2003
American Society for Bone and Mineral Research, Scientific Program Committee	2004
American Society for Bone and Mineral Research, Women's Task Force	2005
NIH: Skeletal Biology, Development & Disease Study Section	2003-2005
American Society for Bone and Mineral Research, Scientific Program Committee	2005
American Society for Bone and Mineral Research, Scientific Program Committee	2006
CTOC T32 Training Grant, The Ohio State University External Advisory Board Member	2004
American Society for Bone and Mineral Research, Task Force on Osteonecrosis of the Jaw	2006
9 <sup>th</sup> International Conference on the Chemistry and Biology of Mineralized Tissues Program committee member	2007
American Society for Bone and Mineral Research, (ASBMR) Scientific Program Committee	2007
American Society for Bone and Mineral Research, Council Member (elected)	2007-2010
ASBMR, Symposium Chair, Osteonecrosis of the Jaw	2007
American Society for Bone and Mineral Research, Nominations committee	2008
University of Alabama at Birmingham Center for Metabolic Bone Disease (CMBD) External Advisory Board Member	2008
National Institutes of Health (NIH) National Advisory Dental & Craniofacial Research Council Member	2008-2011
ASBMR Website Task Force (Committee Chair)	2009-2010
Section/Discussion leader (Dental and Craniofacial Development) Gordon Research Conference on Bones and Teeth	2009
University of Alabama at Birmingham Center for Metabolic Bone Disease (CMBD) External Advisory Board Member (Committee Chair)	2010
NIH: National Institute of Dental and Craniofacial Research Ad hoc Committee for Review of the Scientific Director Division of Intramural Research (Committee Chair)	2010
American Association for the Advancement of Science (AAAS)	



Dentistry Section, Electorate Nominating Committee	2010-2012
American Association for Dental Research (AADR) Governmental Affairs Committee	2011-2014
American Society for Bone and Mineral Research (ASBMR) Ethics Advisory Committee	2011-2014
International Association for Dental Research (IADR) Distinguished Awards Committee (Chair 2015)	2011-2016
American Society for Bone and Mineral Research, Scientific Program Committee – Category Chair, Calcitropic and Phosphotropic Hormones and Mineral Metabolism	2012
International Bone and Mineral Society (IBMS), Cancer Induced Bone Disease (CIBD) Scientific Program Committee	2012
United States Bones and Joint Initiative, Young Investigators Initiative Faculty Mentor	2012
American Society for Bone and Mineral Research, Distinguished Awards & Career Enhancement Awards Committees	2012
International Bone and Mineral Society (IBMS), Greg Mundy Fellowship Selection Committee	2012
European Federation of Periodontology (EFP)/American Academy of Periodontology (AAP) Invited participant Joint Workshop on Periodontal and Systemic Health	2012
American Academy of Periodontology (AAP) Organizing Committee For Workshop on Periodontal Regeneration	2012-2014
American Society for Bone and Mineral Research (ASBMR) Annual Meeting Program Co-Chair	2012-2013
NIH Common Fund Glycomics and Glycobiology Working Group	2013
NIH Board of Scientific Counselors <i>ad hoc</i> Reviewer NIDCR	2013
Dentsply Corporate CE Advisory Board	2013-2017
American Dental Association (ADA) Alternate Delegate, House of Delegates	2013, 2014
American Association for the Advancement of Science (AAAS) Dentistry Section, Electorate Nominating Committee	2015-2016
Search Committee, Editor, Journal of Bone and Mineral Research	2016
External Review Committee, Rutgers School of Dentistry	2016
NIH Board of Scientific Counselors <i>ad hoc</i> Reviewer NIDCR	2016
NIH Physician Scientists Training workshop Convening experts to discuss new pilot programs to recruit and retain physician scientists	2016
American Society for Bone and Mineral Research (ASBMR) Ethics Advisory Committee	2017-2020
NIH: NIAMS Pathways to Prevention workshop invited expert	2017
American Academy of Periodontology World Workshop on Disease Classification expert	2017

National Academy of Medicine, Membership Committee Vice Chair, Chair Section 10	2018-2022
Search committee, Editor, Journal of the American Dental Association	2020
American Society for Bone and Mineral Research (ASBMR) Program Advisory Committee	2019-2020
National Academy of Medicine, Emerging Leaders in Healthcare Fellowship Selection Committee	2022

## **EDITORIAL BOARD MEMBERSHIP AND PEER REVIEW**

Journal of Dental Research: Editorial Board	1997-2000
Department of Veterans Affairs: Member, Merit Review Subcommittee for Surgery	1997
Department of Defense Prostate Cancer Research Program Scientist Reviewer	1998
National Institutes of Health: General Medicine B Study Section Scientific Reviewer	1998
Medical Research Council of Canada Scientific Reviewer	1999, 2000
National Institutes of Health: National Institute for Dental and Craniofacial Research, Scientific Reviewer: Program project site visit	1999
The Wellcome Trust Joint Infrastructure Fund, London, UK Scientific Reviewer	1999
National Institutes of Health: Special Study Section ZRG1 GRM(01) Scientific Reviewer	1999
Department of Defense Prostate Cancer Research Program Scientist Reviewer	2000
National Institutes of Health: Oral Medicine & Biology 2 Study Section Scientific Reviewer	2000-2002
National Institutes of Health: National Center for Research Resources Scientific Reviewer, General Clinical Research Centers	2000
National Institutes of Health: NIAMS, Scientific Reviewer: SCOR in Osteoporosis	2001
Editorial Board member: Calcified Tissue International	2002-2007
National Institutes of Health: National Cancer Institute, Scientific Reviewer, Program project site visit	2002
National Institutes of Health: Oral Biology and Medicine Study Section-2 (OBM-2), member	2002-2005
National Institutes of Health: National Institute for Diabetes, Digestive, and Kidney Disease, Scientific Reviewer, Program project	2003
National Institutes of Health: Skeletal Biology, Development & Disease (SBDD) study section: regular member	2003-2005
American Society for Bone and Mineral Research: Journal of	

Bone and Mineral Research, Editorial Board member	2004-2009
Editorial Board Member: Oral Diseases	2006-2010
ASBMR Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism, Assistant Editor	2007-2008
National Cancer Institute: PO1 Review, Cellular and Tissue Biology Scientific Reviewer	2007
National Institutes of Health: R21 Review, ZDE1 Lk51, Scientific Reviewer and Chair	2007
National Institutes of Health: Director's New Innovators Award, Scientific Reviewer	2007
German Research Foundation: "SKELMET - Mesenchymal and osteogenic signaling pathways in bone metastasis" Scientific Reviewer: Site Visit Dresden, Germany	2011
Clinical Dentistry and Research, International Advisory Board	2010-2014
American Society for Bone and Mineral Research: Journal of Bone and Mineral Research, Associate Editor	2008-2013
Gene, Editorial Board	2012-2013
Osteoporosis International, Editorial Board	2012-2014
National Institutes of Health: NIH ZDE1 VH(04) Clinical Trial or Biomarker Clinical Evaluation Study Planning Grant (R34) Scientific reviewer	2012
National Institutes of Health: NIH RFA Proposal Review "Age-Related Changes in Osteoimmunology"	2013
National Institutes of Health: Board of Scientific Counselors <i>ad hoc</i> reviewer	2013, 2019
Journal of Bone Research, Editorial Board	2013-2017
National Institutes of Health: ZRG1 MOSS Special Emphasis Panel Ad hoc Scientific Reviewer	2014, 2015, 2017
FASEB Journal, Editorial Board	2016-2018
ELAM (Executive Leadership in Academic Medicine) Application Review	2017, 2019
ASBMR Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism, Associate Editor	2016-2018
Deutsche Forschungsgemeinschaft (DFG), uBone – Colonisation and Interactions of tumor cells within the bone microenvironment review panel	2017
National Institutes of Health: NIDCR ZDE1 R35 SOAR Scientific reviewer (2018) Chair (2020)	2018, 2020
NIH Monograph (Formerly Surgeon General's Report on Oral Health) Section editor	2018-2021
Max-Planck Scientific Advisory Board for Medical Research	2019-present
National Institutes of Health: ZRG1 MOSS Special Emphasis Panel Chair	2020

**Ad hoc Reviewer for the following journals:**

American Journal of Pathology  
American Journal of Physiology  
Bone

Bone Research  
 British Journal of Cancer  
 Cancer Research  
 Endocrinology  
 FASEB Journal  
 FEBS Letters  
 International Journal of Cancer  
 Journal of Bone and Mineral Research  
 Journal of Biological Chemistry  
 Journal of Cellular Biochemistry  
 Journal of Clinical Investigation  
 Journal of Clinical Investigation Insight  
 Journal of Clinical Oncology  
 Journal of Clinical Periodontology  
 Journal of Dental Education  
 Journal of Dental Research  
 Journal of Molecular Endocrinology  
 Journal of Periodontology  
 Journal of Proteomics Research  
 Molecular and Cellular Endocrinology  
 Neoplasia  
 New England Journal of Medicine  
 Osteoporosis International  
 Pflügers Archiv - European Journal of Physiology  
 PLoS One  
 Proceedings of the National Academy of Science (PNAS)  
 Prostate  
 Yonsei Medical Journal

**DIVERSITY, EQUITY AND INCLUSION TRAINING AND ACTIVITY (last 5 yrs)**

MLK Day Keynote and Health Sciences Symposium (01/18); 2016  
 Ida Gray Award/Mac Event (02/24); Woman's Tea/MAC (03/30); Taste of  
 Culture/MAC (09/21); Unconscious Bias Training Cultural Competency (11/16);  
 Distinguished Diversity Leaders Award for Tina Pryor (12/06)  
 University of Michigan, Gender in Science and Engineering Committee

MLK Day Keynote and Health Sciences Symposium (01/16); 2017  
 SoD MLK Day Event (01/16); King's Fest with students/faculty/staff (02/11);  
 Ida Gray Award/Mac Event (02/22); Woman's Tea/MAC (03/30); Change It Up;  
 Bystander Intervention Training (05/17); Taste of Culture "Mac and Cheese"  
 /MAC (09/20); DEI Summit, Dr. Steele, Psychological significance of a  
 diverse community/role in learning (11/07); DEI Community Assembly &  
 Interactive Panel Discussion (11/08); Joint Health Schools Deans and  
 Campus Leadership Engagement Reinventing Diversity: Transforming  
 Organizational Community to Strengthen People, Purpose and Performance,  
 by Cook Ross (11/29); Plenary Capstone Session for School Dentistry; Power and Privilege by  
 Cook Ross (11/29) University of Michigan, Gender in Science and Engineering Committee

MLK Day Keynote and Health Sciences Symposium (01/17); King's Feast with 2018  
 students/faculty/staff (01/27); DEI Day and Ida Gray Awards (03/14); Women's  
 Tea/DEI (03/27); Reception honoring Dr. Jeanne Craig Sinkford/Honorary Doctor  
 of Science Degree (04/27); Taste Fest "Out of One, Many"/DEI (10/10)  
 University of Michigan, Gender in Science and Engineering Committee

MLK Day Keynote and Health Sciences Symposium (01/21); 2019  
King's Fest with students/faculty/staff (02/11); DEI Day and Ida Gray  
Awards (02/19); Woman's Tea/MAC (03/25); Taste Fest "Diversity Vegetable Roots"  
/DEI-MAC (10/02); Creating climates Resistant to Sexual Harassment (11/18)  
ADEA Gies award to the University of Michigan School of Dentistry for achievement in DEI  
University of Michigan, APG Advisory Group on Diversity, Equity, Inclusion  
University of Michigan, Gender in Science and Engineering Committee

MLK Day Keynote and Health Sciences Symposium (01/14); 2020  
DEI Day and Ida Gray Awards (02/25); Sexual Harassment & Gender Misconduct  
Session (03/04); Woman's Tea "Positive, Resilient, Inspirational"/MAC (03/31); The  
ADEA Faculty Diversity Toolkit Virtual Dedication and Launch (06/22);  
DEI & Allison Manswell; Listening Session on Race, Anti-Racism and Racial  
Healings (06/25); Safe Space Dialogue for Faculty/DEI (07/16); DEI & Allison  
Manswell Impactful Allyship (07/29); Safe Space Dialogue for Faculty/DEI (08/06);  
DEI & Allison Manswell Next Steps Charting the Path Forward (09/16); Virtual  
Taste Fest "Celebrating our Diverse New Year Cultural Traditions"/DEI-MAC (10/07);  
Safe Space Dialogue for Faculty/DEI (10/13); Buoy Newsletter Launch Panel/DEI  
(10/28); DEI & Allison Manswell Cultivating a culture of respect, Preparing for  
what now; Charting our path for continued tolerance and respect in our community (11/18)  
University of Michigan, APG Advisory Group on Diversity, Equity, Inclusion  
University of Michigan, Gender in Science and Engineering Committee

MLK Day Keynote and Health Sciences Symposium (01/18); 2021  
DEI-MAC Listing Session related to MLK Day (01/18); DEI Day and Ida Gray  
Awards (02/25); Women's Tea (03/25); EVD-AA Search Committee Unconscious Bias Presentation  
(05/01); MICHM Mentoring Academy, Addressing Equity and Inclusion (05/01); Host and presenter,  
Profiles for Success; University of Michigan, Gender in Science and Engineering Committee

## PRESENTATIONS

College of Dentistry Post College Assembly, The Ohio State University, Columbus, OH, April 17, 1986.  
Tunneling Procedure on the Treatment of Periodontal Disease.

College of Dentistry Post College Assembly, The Ohio State University, Columbus, OH, April 17, 1986.  
The Effect of Non-Steroidal Anti-Inflammatory Agents on the Course of Periodontal Disease.

College of Dentistry Post College Assembly, The Ohio State University, Columbus, OH, April 23, 1987.  
Combined Periodontal-Prosthetic Treatment: A Case of Submerged Roots for Increased Prosthetic Support.

College of Dentistry Post College Assembly, The Ohio State University, Columbus, OH, April 23, 1987.  
Autogenous Bone Grafting for the Treatment of Intrabony Defects.

Shawnee State College, Division of Dental Hygiene, Portsmouth, OH, February, 10, 1988. Clinical  
Indicators of Periodontal Health and Disease.

Shawnee State College, Division of Dental Hygiene, Portsmouth, OH, April 20, 1988. The Pathogenesis  
of Periodontal Disease.

College of Dentistry Post College Assembly, The Ohio State University, Columbus, OH, April 21, 1988.  
Current Modalities on the Treatment of Teeth with Furcation Involvement.

ICSABER 14th Annual Graduate Research Forum, Columbus, OH, May 17, 1988. Comparison of Bone  
Histomorphometry, Splenic Lymphocyte-Mediated *in vitro* Bone Resorption and Lymphocyte Blastogenic  
Transformation in Euthymic and Athymic Mice.

College of Dentistry Continuing Education Course, The Ohio State University, Columbus, OH, August 11,  
1988. A Review of Current Research on Periodontal Scaling and Root Planing

Columbus Dental Society meeting, Columbus, OH, February 6, 1989. Surgical vs. Nonsurgical Periodontal Therapy.

The American Association of Dental Research, Opportunities in Science/Careers in Dental Science, Cincinnati, OH, March 8, 1990. What is it Like for a Dentist to Study for a Ph.D. in Bone Biology?

The American Academy of Periodontology Research Forum, Dallas, Texas, October 24, 1990. Receptors for Parathyroid Hormone-Related Protein on Lymphocytes Infected with HTLV-1.

The University of Michigan School of Dentistry Periodontal Alumni Day, March 6, 1992. Molecular Biology Techniques in Dentistry.

Detroit Dental Study Club, Detroit, Michigan, November 11, 1992. Non-surgical Periodontal Therapy.

The University of Michigan School of Dentistry Continuing Education Course: Periodontal Soft Tissue Management, January 28-29, 1993. Scaling and Root Planing.

The Midwest Society of Periodontology, Lunch and Learning, Chicago, Illinois, February 20, 1993. Growth Factors: The Biologic Basis.

Periodontal Study Club (Drs. Wunderlich and Wojcik), Detroit, Michigan, April 20, 1993. Non-surgical Periodontics.

University of Michigan Geriatrics Center, June 7, 1993. The Role of the PTH/PTHrP Receptor in Age-dependent Bone Loss.

University of Michigan Periodontics Alumni Update, September 3, 1993. Molecular and Cellular Biology of Osteoblasts.

Saul Schluger Study Group (American Academy of Periodontology Alumni group, University of Washington), Chicago, Illinois, September 28, 1993. Growth Factors: Implications for Treating Periodontal Disease.

Second International Paget Disease Working Group, New York, NY, October 23, 1993. Discussion Group: Clinical Aspects of Pagetic Dental Complications.

University of Michigan Biologic and Materials Science Seminar, October 27, 1993. Molecular Regulation of the Parathyroid Hormone Receptor.

The University of Michigan School of Dentistry Continuing Education Course: Periodontal Soft Tissue Management, October 29, 1993. Therapeutic Instrumentation and Evaluation of Outcomes in Periodontal Therapy.

The University of Michigan School of Dentistry Student Research Group, November 11, 1993. Balancing Research and Clinic Time.

The University of Michigan School of Dentistry Continuing Education Course: Current Issues in Managing Periodontal Patients, Feb 24, 1994. Relationship between Periodontal Diseases and Medically Compromising Conditions and Appropriate Treatments.

The University of Michigan School of Dentistry, Ph.D. Program in Oral Health Sciences Faculty Day, June 7, 1994: Molecular Regulation of the Parathyroid Hormone Receptor.

The American Federation for Aging Research, Awardee Retreat: Aging and Parathyroid Hormone Function, June 4, 1994.

The University of Michigan School of Dentistry, National Steering Committee: The Effects of Departmental Endowments on Junior Faculty, September 23, 1994.

The University of Michigan School of Dentistry Continuing Education Course: Periodontal Soft Tissue Management, October 28, 1994. Therapeutic Instrumentation and Evaluation of Outcomes in Periodontal Therapy.

The National Institutes of Health, Workshop on Anabolic Hormones in Bone: Basic Research and Therapeutic Potential, May 1-2, 1995. Bethesda, MD "Regulation of PTH/PTHrP Receptor Gene Expression in Osteoblastic Cells."

The University of Michigan School of Dentistry Continuing Education Course: Current Issues in Managing Periodontal Patients, January 26, 1996. Relationship between Periodontal Diseases and Medically Compromising Conditions and Appropriate Treatments.

The Ohio State University, College of Dentistry, February 19, 1996: "Regulation of the Parathyroid Hormone (PTH) Receptor in Bone: Insights into the Mechanisms of PTH-stimulated Bone Formation."

The University of Michigan, Rackham Graduate School, Pre-Doctoral Fellows meeting, March 20, 1996: "Making the Transition from Graduate Student to Faculty Member."

The University of Michigan, School of Dentistry, Research Club, May 8, 1996: "Update on the role of PTHrP and the PTH/PTHrP receptor in osteoblast differentiation and metastatic bone formation."

The University of Washington, Department of Urology, September 11, 1996: "PTHrP as a mediator of osteoblastic lesions in prostate cancer."

The University of Michigan, School of Dentistry Student Research Group, November 5, 1996. "Research careers for dentists."

The University of Michigan School of Dentistry Continuing Education Course: Periodontal Soft Tissue Management, November 14, 1996. "Therapeutic Instrumentation and Evaluation of Outcomes in Periodontal Therapy."

University of Michigan School of Dentistry Continuing Education Course: Current Issues in Managing Periodontal Patients, November 15, 1996. "Relationship Between Periodontal Diseases, Medically Compromising Conditions and Appropriate Treatments"

The University of Florida, College of Dentistry, November 20, 1996: "Regulation of the Parathyroid Hormone (PTH) Receptor in Bone: Insights into the Mechanisms of PTH-stimulated Bone Formation."

The University of Michigan, SPORE in Prostate Cancer, January 13, 1997. "PTHrP as a mediator of osteoblastic lesions in prostate cancer."

The Seattle Dental Study Club (Port Huron and Troy Michigan), January 21 and 23, 1997. "Non-surgical periodontal therapy."

The University of Michigan, Gene Therapy Seminar Series, January 27, 1997. "PTH and PTHrP as anabolic agents in bone: Mechanisms, model systems, and therapeutic potentials."

The Midwest Academy of Periodontology, February 22, 1997. "The influence of systemic health on periodontal therapy: Management and therapeutic guidelines"

The Second Regional Symposium on Skeletal Biology and Metabolic Bone Disease, The University of Western Ontario, Ontario Canada , April 12, 1997. "Regulation of the PTH/PTHrP receptor in bone: Insights into the mechanisms of PTH-stimulated bone formation."

The Organogenesis Seminar Series, The University of Michigan, May 1, 1997. "Regulation of the Parathyroid Hormone (PTH) Receptor: Insights into Anabolic Mechanisms of PTH Action in Bone."

Endocrinology and Metabolism Research Conference, The University of Michigan, October 30, 1997. "Anabolic Mechanisms of PTH Action in Bone."

Stryker Biotech, Natick, MA., April 25, 1998. "Prospects for an Industrial Collaboration with the Center for Biorestitution of Oral Health."

Parke-Davis Inc., Ann Arbor, MI, May 8, 1998. "An Introduction to the Center for Biorestitution of Oral Health."

Division of Nephrology, Basic Science Seminar Series, The University of Michigan, May 26, 1998. "Parathyroid Hormones: Mechanisms of Action in Bone"

Eli Lilly and Co., Indianapolis, IN, June 16, 1998. "Insights to the Actions of PTH & PTHrP in Bone."

Straumann Inc., Bern, Switzerland, November 6, 1998. "Prospects for an Industrial Collaboration with the Center for Biorestitution of Oral Health."

Institut de Genetique et de Biologie Moleculaire et Cellulaire, December 22, 1998. "Initial Characterization of the Bone Phenotype in Estrogen Receptor Deficient Mice."

Michigan State University, Department of Physiology, April 1, 1999. "Anabolic Actions of PTH in Bone: *In Vitro* and *In Vivo* Models."

The Ohio State University, 50<sup>th</sup> Anniversary Celebration of the Graduate Periodontics Program. September 19, 1999. "Anabolic agents in bone: Basic science for clinical practice"

The Bone Metastasis Group, University of Michigan, October 28, 1999. "The role of PTHrP in prostate carcinoma growth".

Local Chapter of the AADR, January 10, 2000. "The role of the estrogen receptor in bone"

The Ohio State University Research Day, Keynote Speaker, February 11, 2000. "Dental Research: It's Your Future".

Center for Biorestitution of Oral Health Research Seminar Series, April 17, 2000. "Anabolic mechanisms of PTH action: Role of *c-fos*"

Orthopedic Research Laboratory, University of Michigan, June 20, 2000. "Anabolic mechanisms of PTH action in bone"

Turkish Society of Periodontology 30<sup>th</sup> Anniversary Meeting, August 25, 2000. "Mediators of Bone Resorption: Principles and Therapeutic Potentials"

University of Texas at San Antonio, Department of Medicine, Endocrine Division, April 4, 2001. "Mechanisms of Anabolic Actions of Parathyroid Hormones in Bone"

The Ohio State University, Post-College Assembly, April 20, 2001. "Systemic and Periodontal Health: A Two Way Street"

University of Michigan, Program Project Site Visit, May 16, 2001. "PTHrP Mechanisms in Osseous Prostate Metastatic Lesions"

FASEB Conference on Steroids and Bone, June 25, 2001. "Skeletal metabolism in estrogen receptor $\alpha$  mutant mice"

University of Michigan School of Dentistry Continuing Education Course: Periodontal and Systemic Health, September 8, 2001, "Metabolic bone diseases, hormonal issues and alcoholism"

Washtenaw County Dental Hygienist's Association, September 25, 2001. "Selected topics in women's health"

International Conference on Chemistry and Biology of Mineralized Tissues, November 8, 2001. "Transgenic Models of Metabolic Bone Disease: Role of Estrogen Receptor in Skeletal Metabolism".

The University of Michigan School of Dentistry, December 11, 2001. "New Mechanisms of PTH action in Bone".

Orthopedic Research Laboratory, University of Michigan, July 9, 2002. "Anabolic mechanisms of PTH action in bone"

University of Michigan, Student Research Program, July 24, 2002. "How to Read and Evaluate Literature"

Third Annual Richard Reinhardt Seminar, University of Nebraska Medical Center, College of Dentistry, Lincoln, Nebraska, October 22-23, 2002. "The Dentist-Scientist: Levels of Inquiry in Bone."

University of Indiana, Bone Club Seminar, Indianapolis, Indiana, November 19-20, 2002. "Anabolic Actions of PTH: New Insights, Models and Mechanisms."

University of Michigan, Student Research Program, June 4, 2003. "How to Read & Evaluate Literature"



University of Western Ontario, The Fifth John T. Hamilton Distinguished Lecture, October 8, 2003. "Anabolic Actions of Parathyroid Hormone in Bone: Models and Mechanisms".

University of Pittsburgh, Department of Pharmacology, Medical School, November 14, 2003. "PTH & PTHrP: Cellular Mechanisms and Expanding Roles in Normal Bone and Prostate Skeletal Metastasis."

OSU vs. Michigan CE, Ann Arbor, Michigan, November 21, 2003. "Women's Health: What are the Periodontal Implications?"

University of Arkansas, Endocrine Grand Rounds, April 9, 2003. "PTH & PTHrP: Cellular Mechanisms and Expanding Roles in Normal Bone and Prostate Skeletal Metastasis".

State University of New York, SUNY at Buffalo, NY, May 3, 2004. Department of Oral Biology. "Anabolic versus catabolic mechanisms of parathyroid hormones in bone".

Michigan Center for Oral Health Research School-wide Meeting, Ann Arbor, MI, May 4, 2004. "Impact of parathyroid hormone on osseous regeneration in the oral cavity."

National Institutes of Health, National Institute for Dental and Craniofacial Research, Intramural Research Program, Washington DC, May 13, 2004. "Emerging roles for PTH in bone regeneration and skeletal metastasis."

Advances in Skeletal Anabolic Agents and the Treatment of Osteoporosis. Session II: Skeletal Anabolism: Transcriptional Regulation and Signaling, American Society for Bone and Mineral Research (ASBMR) and National Institutes of Health (NIH), Washington DC, May 24, 2004. "Anabolic Actions of PTH in bone: Role of AP-1 and Osteoclastogenesis."

University of Michigan, Bone Center CCR Seminar Series, Ann Arbor, MI, June 2, 2004. "Actions of parathyroid hormones in bone: from signaling pathways *in vitro* to new cellular targets *in vivo*."

Conference Workshop on Strategic Research to Enable NASA's Exploration Missions, Cleveland, OH, June 23, 2004. "Pulsed PTH to counter bone loss."

Thai Perio Society Meeting, Bangkok, Thailand, August 5, 2004. "Metabolic bone diseases and their impact in the oral cavity."

Chiang Mei University, Chiang Mei, Thailand, August 7, 2004. "Parathyroid hormones, tooth eruption, cementum, and root resorption".

Prout's Neck Meeting on Prostate Cancer, Prout's Neck Maine, November 6<sup>th</sup>, 2004. "The Bone Marrow Microenvironment and Prostate Cancer Localization."

Unit for Lab Animal Medicine, University of Michigan, December 9<sup>th</sup>, 2004. "PTH: Friend or Foe?"

Endocrine Conference, Emory University, Atlanta, GA, January 10, 2005. "Anabolic Actions of Parathyroid Hormone in Bone: Beyond Osteoblasts."

Michigan Difference Seminars, Naples and Palm Beach, FL, February 21-22, 2005. "Keeping Your Bones Strong."

University of Michigan NASA Biomedical Engineering Institute, March 28, 2005. "Local Delivery of Parathyroid Hormone Counter Balances Microgravity-Associated bone Loss."

Department of Biomedical Engineering Seminar Series, University of Michigan, April 4, 2005. "Anabolic Actions of Parathyroid Hormones: Engineering Models to Elucidate Mechanisms of Action in Bone"

Paget's Foundation, Skeletal Complications of Metastasis Meeting, Invited Speaker. NIH Campus, April 28, 2005 "The Bone Marrow Microenvironment: Modulation by Parathyroid Hormones and Support of Prostate Cancer Localization"

Center for Metabolic Bone Disease, University of Alabama, Birmingham, AL, May 19, 2005 "Anabolic Actions of parathyroid Hormone in Bone: Role of Cells in the Bone Marrow Microenvironment"

Ecole Normale Superior (ENS), Lyon France, June 16, 2005 "Anabolic Activities of Parathyroid Hormones in Bone: Osteoclasts Make the Difference."

University Lyon-1, UFR d'Odontologie, Lyon France, January 26, 2006 "Parathyroid hormones: Profiles of action in cementum and bone".

Faculté de Médecine Laënnec, Lyon France February 16, 2006 "The Bone Marrow Microenvironment: Modulation by Parathyroid Hormones and Support of Prostate Cancer Localization"

Hôpital Lariboisière Paris France, March 31, 2006 "Anabolic actions of PTH: New insights into cellular targets in bone".

Les 9èmes Journées Françaises de Biologie des Tissus Minéralisés: Conférence Plénière (plenary speaker), "Anabolic actions of parathyroid hormones in bone: New paradigms and cellular targets". Lyon France, May 19, 2006.

Yonsei University, Seoul, Korea, July 6, 2006. "Roles and Mechanisms of Action of Parathyroid Hormones in Cementum and Bone".

American Society for Bone and Mineral Research (ASBMR) Invited symposium speaker for 'Osteoclast Signaling and Function' Symposium, Philadelphia, Pennsylvania, September 17, 2006. "PTH and Osteoclasts: Changing Roles in Bone Remodeling and Regeneration"

University of Connecticut Health Center, School of Medicine, October 24, 2006. "Models and Mechanisms for Parathyroid Hormone Action in Bone Regeneration"

Oral Health Sciences PhD Program Seminar Series, University of Michigan, February 1, 2007. "Parathyroid hormone targets multiple cellular circuits for skeletal anabolism"

The 7<sup>th</sup> Biennial Sigurd Ramfjord Symposium, University of Michigan, April 21, 2007. "Metabolic Bone Diseases and their Impact in the Oral Cavity".

Combined Program Project Meeting – Emory, Univ. Washington, Univ. Michigan, March 29<sup>th</sup>, 2007, Ann Arbor Michigan. "The bone marrow microenvironment and hematopoietic stem cell interactions with prostate cancer".

University of Michigan, School of Dentistry, Continuing Education, June 22, 2007. "Medical History: Metabolic Bone Disease"

Sun Valley Workshop on Skeletal Biology (invited speaker), August 8, 2007. "Distinguishing Features of the Oral Cavity and its Pre-disposition to ONJ"

Wyeth Research, Collegeville, PA. October 4, 2007. "Anabolic actions of parathyroid hormones in bone: Models and mechanisms for regenerative medicine".

The Paget's Foundation Skeletal Complications of Malignancy Meeting, October 27, 2007, Philadelphia, PA. "Pathophysiology of Osteonecrosis of the Jaw".

The 9<sup>th</sup> International Conference on the Chemistry and Biology of Mineralized Tissues. November 06, 2007, Austin Texas. "Osteonecrosis of the Jaw: An Update and Report of the ASBMR Task Force"

University of Michigan, Organogenesis Center, November 29, 2007. "Mechanisms of Parathyroid Hormone Action in Skeletal Regenerative Biology"

University of Michigan, Orthopedic Research Laboratories, January 15, 2008. "The Bone Marrow Microenvironment: Modulation by Parathyroid Hormones and Support of Prostate Cancer Metastasis"

Combined Program Project Meeting – Emory, Univ. Washington, Univ. Michigan, February 6<sup>th</sup>, 2008, Stone Mountain Georgia. "The role of PTHrP in the bone metastatic microenvironment of prostate cancer".

University of Michigan, Moyer's Presymposium, February 29, 2008. "The Impact of Bisphosphonates on Craniofacial Bone and Tooth Movement"

University of Alabama, Center for Metabolic Bone Disease Symposium, Birmingham, AL, March 26, 2008, "Cell systems and targets of PTH action in bone".

American Association for Dental Research (AADR) Symposium on Osteonecrosis of the Jaw, Dallas, Texas, April 3, 2008. "Osteonecrosis: Why the Jaw?"

Harbin Medical University, Harbin China, April 29, 2008. "Emerging aspects of parathyroid hormone action in bone: Osteoimmunology meets endocrinology".

Yang Ming University, Taipei Taiwan, May 2, 2008. "Parathyroid hormones and skeletal regeneration: Translational studies linking endocrinology and osteoimmunology".

The University of Michigan, Department of Radiology, June 5, 2008. "The Bone Marrow Microenvironment: Modulation by Parathyroid Hormones and Support of Prostate Cancer Metastasis".

American Society for Bone and Mineral Research (ASBMR) Invited symposium speaker for 'Novel Treatments of Bone Disease' Symposium, Montreal, Canada, September 12, 2008. "Anabolic Mechanisms of Parathyroid Hormone Action in Bone"

Leeds/Michigan Tissue Engineering Meeting, Leeds, UK October 16<sup>th</sup> 2008 "Anabolic mechanisms of PTH action during bone regeneration"

Northwestern University, Department of Molecular Pharmacology and Biological Chemistry, February 2, 2009. "PTHrP and the bone marrow microenvironment in prostate cancer metastasis"

Genesee District Dental Society, April 7, 2009. "Bisphosphonates and their effects on dental treatment".

11<sup>th</sup> International Symposium on Basic and Physiopathological Aspects of Parathyroid Hormone (PTH) and PTH-Related Protein, Strasbourg France, July 10, 2009. "Prostate cancer-derived PTHrP and the tumor microenvironment of the skeletal metastatic lesion"

American Society for Bone and Mineral Research (ASBMR) Annual Meeting Denver Colorado, Meet the Professor Sessions, September 11 and 12, 2009. "Osteonecrosis of the Jaw: Problems and Perspectives".

American Academy of Periodontology Annual Meeting, Boston, MA, September 14, 2009. "Treatment strategies for metabolic bone diseases: impact on clinical practice and applications for periodontal regeneration."

Fifth International Conference on Tumor Microenvironment: Progression, Therapy & Prevention, Versaille, France, October 23, 2009. "A novel role for megakaryocytes in the bone marrow microenvironment of prostate cancer metastasis".

The University of Pennsylvania, Mari Lowe Center for Comparative Oncology Seminar Series, Philadelphia, PA, November 5, 2009. "Prostate Cancer-derived PTHrP and the tumor microenvironment of the skeletal metastatic lesion".

Eli Lilly and Co. Indianapolis, IN, November 16, 2009. "Teriparatide and Periodontics"

McGill University, Medical School Department of Anatomy and Cell Biology Seminar, December 16, 2009. "Mechanisms of action of parathyroid hormone (PTH) in the bone marrow microenvironment".

McGill University, School of Dentistry Seminar, December 17, 2009. "Metabolic Bone Disease Therapeutics and Oral Health: From Osteonecrosis of the Jaw to Osseous Regeneration".

University of Michigan, Department of Pathology, Medical School, January 7, 2010. "An unstable cascade in the bone marrow microenvironment drives prostate cancer skeletal metastasis".

University of Maryland, School of Dentistry, February 18, 2010. "Tumor interactions in the bone marrow microenvironment of the skeletal metastatic lesion".

University of Pittsburgh, McGowan Institute Retreat on Regenerative Medicine, March 9, 2010. "Parathyroid hormone: skeletal and craniofacial regeneration"

University of Alabama, Center for Metabolic Bone Disease, March 31, 2010. "Parathyroid hormone: Integrator of hematopoietic cells and bone"

Aegean Conferences: 3<sup>rd</sup> International Conference on Osteoimmunology: Interactions of the Immune and Skeletal Systems, June 21, 2010. "Parathyroid hormone: A dynamic regulator of bone, immune, and hematopoietic cells"

University of Michigan Medical School, Camp Peace (summer camp for low-income minorities). "Doctor for a Day" A Career in Dentistry, July 29, 2010.

Institut André Lwoff, Université Paris XI, Hôpital Paul Brousse. January 14, 2011. “Parathyroid hormone drives bone regeneration in partnership with hematopoietic cells”

American Society for Bone and Mineral Research Clinical Update for Health Professionals. September 17, 2011. “A Dental Perspective on Osteoporosis Therapy: New Applications and Long Term Risks”

Washington University, St. Louis, MO, Avioli Seminar. October 7, 2011. “Parathyroid hormone engages niche osteoblasts and hematopoietic cells to drive anabolic actions in bone”.

New York University, College of Dentistry, New York, NY. October 31, 2011. “Anabolic actions of PTH in bone: From the cell and molecular level to a clinical application.”

Korean Society of Bone Metabolism, Seoul, Korea, November 19, 2011. “Crosstalk between bone and the hematopoietic system modulates anabolic actions of parathyroid hormone.”

International Bone and Mineral Society (IBMS) Cancer Induced Bone Disease (CIBD) Conference, Chicago, IL, December 2, 2011. “Bone marrow derived myeloid cells set the stage for prostate cancer skeletal metastasis”.

Brigham and Women’s Hospital, Harvard Institute for Medical Sciences, Boston, MA, January 6, 2012. “Novel mechanisms of parathyroid hormone action link the skeletal and hematopoietic systems”

Yale University, Yale Bone Center, January 19, 2012, “Interleukin-6 signaling links hematopoietic and anabolic actions of PTH in Bone”.

Yale University Endocrine Grand Rounds, January 20, 2012, “Osteoporosis Therapeutics and the Oral Cavity: Impact, Risks, and Prospects”.

University of Michigan Metabolism, Endocrinology, and Diabetes Clinical Conference, January 27, 2012, "Impact of Therapeutics for Metabolic Bone Disease on the Oral Cavity".

Gordon Research Conference on Craniofacial Morphogenesis and Tissue Regeneration, March 18, 2012, *Keynote Presentation*: “Understanding basic mechanisms fosters a clinical application in craniofacial regeneration”.

Osteoncology Symposium, Tübingen Germany, March 24, 2012, *Keynote Presentation*: “Translational osteoncology- from bench to bone!”

MICHR Career Development Seminar, University of Michigan, April 10, 2012, “Time management”

Combined Program Project Meeting (Univ. Michigan, Univ. Seattle, UCLA) April 12<sup>th</sup>, 2012, Ann Arbor, MI. “The microenvironment matters: The bone marrow 'soil' and prostate cancer”.

International Symposium on Osteoporosis (National Osteoporosis Foundation), Orlando Florida April 27, 2012, Plenary symposium ‘Untoward Effects of Osteoporosis Medicine’ *Invited speaker*: “Osteonecrosis of the Jaw”.

International Association for Dental Research (IADR), Iguassu Falls, Brazil, June 20, 2012, *Keynote presentation*, “Osteoblasts and Hematopoietic Cells: Parathyroid Hormone Joins Forces to Build Bone”.

Osteology Foundation, Zurich, Switzerland, June 25, 2012, “Cellular mechanisms of Parathyroid Hormone Action Profile the Osseous Wound Healing Potential in Animal Models and Human Patients”.

Gordon Research Conference on Proteoglycans *Invited Speaker*, July 11, 2012, “The Role of Proteoglycan 4 in Skeletal Development.”

American Society for Bone and Mineral Research (ASBMR) Annual Meeting Minneapolis, MN, Meet the Professor, October 14, 2012. “PTH and the Marrow Microenvironment”.

International Society for Bone Morphometry Minnetonka, MN, Invited Speaker, October 17, 2012. “Dissecting the Role of Myeloid Lineage Cells in Prostate Cancer Skeletal Metastasis”

Harvard School of Dental Medicine (HSDM)/Harvard Medical School (HMS)/Massachusetts General Hospital (MGH) Bone Research Workshop Series, Boston, MA, January 25, 2013. “The Osteomac: An Accomplice to Anabolic Actions of PTH in Bone”

Maine Medical Center, Portland ME, April 4, 2013. “Osteo-Macrophages and Anabolic Actions of PTH in Bone”.

Harvard School of Dental Medicine (HSDM) Graduate Periodontics Program, Boston MA, April 18, 2013. “Parathyroid Hormone and Regenerative Dentistry: Linking Mechanisms to Clinical Use”.

American Association of Oral and Maxillofacial Surgeons 2013 Research Summit, Chicago, IL, May 3, 2013. “Anti-resorptive Associated Osteonecrosis of the Jaw: Parathyroid Hormone?”.

Massachusetts General Hospital, Department of Oral and Maxillofacial Surgery, Service Meeting, May 23, 2013 “Parathyroid Hormone: A Treatment for ONJ?”

Jackson District Dental Society, Jackson MI, October 9, 2013. “The impact of osteoporosis medications on oral health and dental treatment”.

Kent County Dental Society, Grand Rapids, MI, October 15, 2013. “University of Michigan School of Dentistry: Connections and Community in 2013 and Beyond”.

Flint Rotary, Flint MI, November 15, 2013. “Trends in dental education: the Michigan perspective”

University of Southern California, Pasadena, CA, March 12, 2014. Research Day Keynote Speaker, “Parathyroid Hormone Drives Bone Regenerations: Maneuvering Between Cellular and Clinical Aspects”.

American Society for Investigative Pathology Annual Meeting, San Diego, CA, April 27, 2014. Career Development Symposium: “Specific Tactics and Strategies for Successful Negotiation”.

Oakland County District Dental and Dental Hygiene Meeting, Novi, MI, May 13, 2014. “Interprofessional Education and the Future of Dental Practice”.

ADA Stakeholders Meeting, Chicago, IL, June 19-20, 2014. “The Appropriate Level of Scholarship within Dental Schools to ensure that Dentistry Continues to be a Learned Profession”.

Chalmers J. Lyons Academy of Oral Surgery, Michigan Society of Oral and Maxillofacial Surgery, Mackinac Island, MI, June 27-29, 2014. “Osseous Wound Healing in the Oral Cavity” and “Update on the University of Michigan School of Dentistry”.

University of Missouri at Kansas City (UMKC), Kansas City, MO, August 26, 2014. “The Role of Myeloid Lineage Cells in Bone and PTH Actions”.

American Academy of Periodontology Annual Meeting, San Francisco, CA, September 20, 2014. “Osteoporosis: Physiology Diagnosis and Medical Management”.

University of San Francisco (UCSF), San Francisco, CA, October 16, 2014. Research Day Keynote Speaker, “Osteal Macrophages and Parathyroid Hormone: Partners in Bone Regeneration”.

University of Pennsylvania, Philadelphia, PA, Penn Center for Musculoskeletal Disorders, Department of Orthopedic Surgery, School of Medicine, October 28, 2014. “The Strategic Role of Parathyroid Hormone in Resolution of Osseous Health and Regeneration of Bone”.

Academia Sinica, Taipei, Taiwan, January 14, 2015. “Marrow microenvironment and Macrophages: New Insights to Prostate Cancer Skeletal Metastasis”.

Taipei Medical University, Taipei, Taiwan, January 15, 2015. “Skeletal Regenerative Medicine” and “Updates on Osteonecrosis of the Jaw”

Livingston District Dental Society, January 20, 2015. “Osteoporosis and Oral Health” and “Updates on the School of Dentistry”.

University of Maryland, Greenbaum Cancer Center, Frontiers in Oncology Seminar, February 17, 2015. “Macrophages, apoptosis & efferocytosis: A recipe for skeletal metastasis”.

Columbia University, April 9, 2015. “Macrophages: New Players in Bone Metabolism and Metastasis”

Leadership BLUE, University of Michigan, April 17, 2015. “Leadership development/University and higher education”.

Michigan Dental Association, April 22, 2015. “Women’s Leadership Forum Presentation”

Business & Finance Forum, University of Michigan, May 7, 2015. “Vision for the School of Dentistry Academic Mission”.

Musculoskeletal Research in Progress (MSK-RiP), Distinguished Faculty and Graduate Student Seminar, University of Michigan, May 20, 2015. “Macrophages orchestrate life after death in bone”.

MICHR Career Development Seminar, University of Michigan, June 11, 2015, “Time management”

American Dental Education Association, Washington D.C. June 12, 2015, “Dental Deans Leading Change”.

National Institutes of Health: National Institute of Dental and Craniofacial Research (NIH:NIDCR) Grand Rounds, November 20, 2015. “Life after death: The emerging role of macrophages in skeletal biology”.

Gordon Research Conference: Bones and Teeth, Galveston, TX, February 15, 2016. “Macrophages: Big eaters with a big role in bone”

The Ohio State University, Dental Research day, Columbus, OH. February 23, 2016. “Osteoblasts and macrophages: teaming up for bone regeneration”.

Endocrine Society, Plenary Lecture, April 4, 2016, Boston, MA. “Macrophages as mediators of bone health and PTH actions”.

Greater Cleveland Dental Society, Women in Dentistry, Cleveland, OH. April 14, 2016. “Osteoporosis and oral health”.

Northern Michigan Dental Society meeting, Alpena, MI, April 18, 2016. “An update on the effects of osteoporosis medications on dental care”

University of Michigan Retirees Association, Ann Arbor, MI, May 12, 2016. “The bare bones of skeletal health”.

European Society of Endocrinology Summer School, Bregenz Austria, August 3, 2016. “Bone derived macrophages in skeletal metastasis: A lethal interface.”

Michigan Dental Association, Okemos, MI, September 16, 2016. “University of Michigan School of Dentistry Update”.

Bone Disease Program of Texas (BDPT) Bone Seminar series, Houston, TX, January 6, 2017. “Macrophages and apoptotic cell clearance: New players in the support of prostate cancer skeletal metastasis”.

Oregon Health Sciences University, School of Dentistry Research Day Keynote Speaker, March 9, 2017. “Osteal macrophages summon stem cells to regenerate bone”.

American Association for Dental Research, Symposium panelist: “Salary Negotiations and Promotion in Dental Academia”, San Francisco, CA, March 22, 2017.

American Association for Dental Research, Gies Symposium Speaker: “The future of dental schools in research universities and academic health centers”. March 29, 2017.

University of Connecticut, Endocrine Speaker Series, Farmington, CT, March 28, 2017. “Life after death in bone: The regenerative role of macrophages”

Harvard School of Dental Medicine, Research Day Keynote Speaker, Boston, MA, April 20, 2017. “Osteal macrophages: Micromanagers of skeletal homeostasis”.

University of Pittsburgh School of Dentistry, Research Day Keynote Speaker, Pittsburgh, PA, May 18, 2017. “Osteal macrophages in skeletal regeneration: microenvironmental game changers”.

Shantou University, Shantou China, May 29, 2017, “Dental Education in the US: The Michigan Model”.

Michigan Dental Association, October 7, 2017, “University of Michigan School of Dentistry Update and the Future of Dental Education”.

American Dental Association Former Officers Forum, Atlanta, GA, October 21, 2017. “Planning for the future of the dental profession in a rapidly changing landscape”.

University of Houston, School of Dentistry, Research Day Keynote Speaker, Houston, TX, October 24, 2017. “Macrophages: Masters of osseous wound healing and bone regeneration”.

National Institutes of Health NIDCR Workshop on Autotherapies: Enhancing our innate healing capacity, Workshop speaker and panelist, Bethesda, MD, January 25, 2018.

Advances in Mineral Metabolism (AIMM) annual meeting invited speaker: “Osteal macrophages: Inspiring the landscape in bone” Snowmass, CO, April 10, 2018 and Meet the Professor Session “Animal models of skeletal metastasis” April 11, 2018.

Leadership Blue: “Visionary leadership and strategic planning”, Ann Arbor, MI, May 3, 2018.

Cancer and Bone Society, “Inflammatory Macrophages, Efferocytosis and Skeletal Metastasis”, Oxford, UK, July 2, 2018.

Resort District Dental Society Meeting, “Update of the University of Michigan, School of Dentistry” Traverse City, MI, August 23, 2018.

Genesse District Dental Society, “Update of the University of Michigan, School of Dentistry”, Flint, MI, September 11, 2018.

University of Michigan, School of Dentistry, “State of the School” address, Ann Arbor, MI, September 18, 2018.

Michigan Dental Association, Okemos, MI, October 4, 2018. “University of Michigan School of Dentistry Update”.

University of Michigan ADVANCE “LIFT” program, Dean’s panel, Ann Arbor, MI, November 8, 2018.

Rutger’s School of Dentistry Seminar Series, Newark NJ, January 8, 2019. “Micro-environmental roles of macrophages in bone”.

Washington University, Lou Avioli Lecture Series, St. Louis, MO, January 11, 2019. “Osteal Macrophages: Contrasting Roles in Skeletal Regeneration and Metastasis”.

Wayne State University, Pharmacology Department Seminar Series, Detroit MI, February 1, 2019. “Osteal Macrophages use their Apoptotic Cell Clearance Role to Promulgate Tumor Growth in Bone”.

University of Michigan, Presidential Seminars, Palm Beach Florida, February 12, 2019, “Laying the Groundwork for Educational Change” (with Dean Elizabeth Moje).

Washtenaw District Dental Society, Update on the University of Michigan School of Dentistry, March 11, 2019.

University of Michigan Medical School, Dean’s Frontier Seminar Series on Oral Health, overview and moderator, University of Michigan, April 30, 2019.

IADR symposium/workshop panel participant “Tenure x Non-Tenure: Which Career Track is Right for You?” Vancouver, Canada, June 20, 2019.

ASBMR 2019 Louis V. Avioli Distinguished Lecture, “Anabolic Actions of Parathyroid Hormones: Genes, Cells, and Models. Orlando, Florida, September 21, 2019.

University of Michigan MHealthy Advisory Committee, virtual meeting, July 16, 2020, “University of Michigan School of Dentistry and Oral Health”.

University of Michigan Victors/Heroes/Wolverines Live Webinar Series. “Preparing for a Public-Health Informed Semester: Rethinking Performance, Studio, and Laboratory Courses”, July 30, 2020, moderator and speaker.

OSAP (Organization for Safety and Asepsis) 2020, A 360 View of Point of Care Testing for COVID-19 Webinar, August 13, 2020, with R. Eber, “Point of Care COVID-19 Antibody Testing in a Dental School Setting: Experience with Mobilizing Dental Personnel in a Pandemic”.

ASBMR 2020 Symposium: The Seed and Soil: Therapeutic Targets for Cancer and Bone. Invited speaker, September 9, 2020. “Tumor associated macrophages and skeletal metastasis”.

Santa Fe Group Webinar: “Science First: Oral-Systemic Research” Invited speaker, March 24, 2021.

John’s Hopkins University Center for Musculoskeletal Research seminar series: “Bone marrow macrophages as key mediators of inflammation and immunosuppression associated with skeletal metastasis”, August 18, 2021.

Santa Fe Group Webinar: “The Benefits of Integrating Oral Health into Overall Health” Moderator and speaker, September 8, 2021.

Forsythe Tech 2021, CEO Panel, Boston, MA, September 23, 2021

American Dental Association SmileCon Panel Emerging Science in Oral Health, Las Vegas NV, October 12, 2021

Bien Air Forum, “The Role of Dental Schools in Advancing Health Through Research and Discovery” Phoenix, AZ, October 22, 2021.

American Association for Dental and Craniofacial Research (AADOCR) webinar panelist – “Oral Health in America – Advances and Challenges: Reading the Report through a Research Lens”, February 1, 2022.

### **VIDEOS (select)**

**Univ of Michigan research study in skeletal metastasis (2012)** [https://www.youtube.com/watch?v=Id-O\\_5I1rsE](https://www.youtube.com/watch?v=Id-O_5I1rsE)

**Univ of Michigan research study on the role of proteoglycan 4 in skeletogenesis (2012)** <https://www.youtube.com/watch?v=e3wtxvDuUu4>

**Dentistry Victors for Michigan (2015)** <https://www.youtube.com/watch?v=dPAz681beuw&t=37s>

**Journal of Dental Research 100 year celebration (2019)**

<https://www.youtube.com/watch?v=FcA4aWiEsxQ>

**Profile for Success (2020) 25 years of Diversity, Equity and Inclusion** – Program that assists undergraduates and recent graduates through the admissions process for dental school with a focus on socially or economically disadvantaged students.

<https://www.youtube.com/watch?v=hDVRrYvouqA&t=22s>

**Leadership interviews series (2021)** – A conversation with leaders in dentistry with ties to the University of Michigan (Somerman, Machen, Sinkford, Gist, Polverini)

<https://www.youtube.com/watch?v=Jxy7F4ncCZs&t=5s>

<https://www.youtube.com/watch?v=2kNowmHj13A&t=13s>

<https://www.youtube.com/watch?v=kxnudr6ivWw&t=2s>

<https://www.youtube.com/watch?v=GSZHG51J4M0>

<https://www.youtube.com/watch?v=cXOMx2Gy20s>

### **RESEARCH SUPPORT (Principal investigator and select Co-I projects; direct costs/year)**

1988-1991	NIH: National Research Service Award (Individual Award) (F32 DE05524) National Institute of Dental Research Mechanisms of Lymphocyte-Mediated Bone Resorption <i>Individual Trainee</i>	\$38,418
1990-1991	American Fund for Dental Health Dental Teacher Training Award to pursue pedagogical and research training. <i>Principal Investigator/Trainee</i>	\$20,000
1992-1993	Biomedical Research Support The Effects of Cyclosporin A on Osteoblasts.	\$5,000



	<i>Principal Investigator</i>	
1992-1993	Geriatrics Center Feasibility Grant (U of M) Aging and Immunologic Homeostasis: Regulation of Osteopontin Production in T-Lymphocytes <i>Principal Investigator</i>	\$24,050
1993-1994	American Federation for Aging Research (AFAR) Aging and Parathyroid Hormone (PTH) Function: Effects of Estrogen on PTH Receptors in Bone <i>Principal Investigator</i>	\$22,484
1993-1994	Comprehensive Cancer Ctr., (U of M) Mechanisms of TGFβ1 Regulation of Parathyroid Hormone-Related Protein Receptors on Osteosarcoma Cells <i>Principal Investigator</i>	\$8,700
1993-1994	Sandoz Foundation for Gerontologic Research Potentials for Treatment of Age-Dependent Bone Loss with Cyclosporin Analog <i>Principal Investigator</i>	\$20,000
1993-1995	Horace H. Rackham School of Graduate Studies Faculty Grant Cell Cycle Regulation of the Parathyroid Hormone Receptor on Osteoblasts <i>Principal Investigator</i>	\$14,090
1995	University of Michigan, Career Development Award for Women Faculty <i>Principal Investigator</i>	\$5,000
1995-1997	NSF: (Molecular and Cellular Biosciences) SBIR Phase II: Diffusion Gradient System for Processes and Behavior in Microbial and Cellular Biology <i>Subcontract</i>	\$5,000
1994-1999	NIH: (National Institute for Diabetes, Digestive, and Kidney Disease) R29 DK46919 Molecular Regulation of the Parathyroid Hormone Receptor <i>Principal Investigator</i>	\$75,000
1995-1998	NIH: (National Cancer Institute) SPORE P50 CA69568 PTHrP as an Autocrine Mediator of Bone Metastases Associated with Prostate Cancer <i>Principal Investigator for Research Career Development Award</i>	\$90,804
1997-1999	NIH: (National Institute for Dental Research) R03 DE12267 Transgenic Cre-lox Model for PTH Receptor Action in Bone <i>Principal Investigator</i>	\$25,000
1997-1998	NIH: (National Institute for Dental Research) P20 DE12387 Center for Biorestitution of Oral Health <i>Principal Investigator</i>	\$100,000
1998-1999	Office of the Vice President for Research: University of Michigan Distinguished Faculty and Graduate Student Seminar Series	\$7,500

	<i>Principal Investigator</i>	
1998-2003	NIH: (National Institute for Dental and Craniofacial Research) RO1 DE60473 (PI - K. Rice) Regulated Osteoinductive Plasmid Gene Transfer via Gene Activated Matrices <i>Co-Investigator</i>	\$200,000
1998-2003	NIH: (National Institute for Diabetes Digestive, and Kidney Disease) R01 DK53904-01 Anabolic Mechanisms of PTH Action in Bone <i>Principal Investigator</i>	\$138,000
2002	CBER: University of Michigan, Center for Biomedical Engineering Research Skeletal Systems Engineering <i>Principal Investigator</i>	\$75,000
2001-2002	Comprehensive Cancer Ctr., (U of M) PTHrP as a Mediator of Osteoblastic Metastases <i>Principal Investigator</i>	\$10,000
2001-2005	Department of Defense Molecular Mechanisms of Prostate Cancer Metastasis (PI – R. Taichman) <i>Co-Investigator</i>	\$100,000
2001-2006	NIH: (National Institute for Arthritis and Musculoskeletal and Skin Disease) Mechanical and Biological Influences on Bone Response: Core Center P30 AR 46024 <i>Associate Director and Co-Investigator</i>	\$400,000
2003	SPORE in Prostate Cancer (seed project of National Cancer Institute Parent project P50 CA69568) The Role of Bone Turnover in the Predilection of Prostate Cancer Metastasis in Bone <i>Principal Investigator</i>	\$8,700
	NIH: National Inst. for Dental and Craniofacial Res. Tooth Eruption: Role of Dental Follicle and Parathyroid Hormone (PTH) Receptor RO1 DE014073 <i>Principal Investigator</i>	\$194,000
2003-2008	NIH: National Institute for Diabetes Digestive, and Kidney Disease RO1 DK53904-05 Anabolic Mechanisms of PTH Action in Bone <i>Principal Investigator</i>	\$200,000
2004-2007	NIH: National Institute for Diabetes Digestive and Kidney Disease RO1 DK053904-06S1 Anabolic Mechanisms of PTH Action in Bone This is a minority graduate student supplement.	\$55,000
2004-2009	NIH:NCI Program Project Award	\$1,189,870

	The Biology of Prostate Cancer Skeletal Metastases (PI-E. Keller) <i>Co-Investigator</i> (PI on Project 4 and Core B)	
2003-2006	University of Pittsburgh, Collaborative Research Program Grant Program Pathogenesis and Treatment of Myeloma Bone Disease (PI-G. D. Roodman U. of Pittsburgh) <i>Co-investigator</i>	\$500,000
2003-2007	NASA NASA Biomedical Engineering Institute at Michigan (PI-J. Grotberg) <i>Co-Investigator (Theme leader)</i>	\$300,000
2005-2009	Eli Lilly and Company Impact of PTH on osseous regeneration in the oral cavity (PI- L.McCauley) <i>Primary Investigator</i>	\$32,180
2008-2010	Department of Defense U.S. Army Medical Research and Materiel Command Prostate Cancer Training Award Inhibitory Effect of Megakaryocyte in Prostate Cancer Bone Metastasis (PI – Xin Li) <i>Mentor to Xin Li (post-doctoral fellow)</i>	\$50,000
2008-2011	Department of Defense U.S. Army Medical Research and Materiel Command Idea Development Award Bone Marrow Microenvironmental Control of Prostate Cancer Skeletal Localization <i>Principal Investigator</i>	\$124,000
2008-2011	National Institutes of Health R21 DE019395 Integral role of hematopoietic cells in PTH actions in bone <i>Principal Investigator</i>	\$275,000/yr
2008-2013	National Institutes of Health RO1 DK053804-10 Anabolic Mechanisms of PTH Action in Bone <i>Principal Investigator</i>	\$212,000/yr
2009-2010	Ortho Biotech Oncology R&D/ Centocor R&D Johnson & Johnson Pharmaceuticals Impact of CCL-2 and IL-6 Blockade on the Vascular Support of Prostate Cancer Skeletal Metastasis <i>Principal Investigator</i>	\$97,000
2009-2010	National Institutes of Health ARRA - American Recovery and Reinvestment Act Supplement to R21 DE019395 <i>Principal Investigator</i>	\$63,700
2010-2011	National Institutes of Health F30 DE021298-01 Fellowship: Novince, Chad Michael	\$33,000/yr

Project Title: Proteoglycan-4: A novel protein regulating skeletal actions of parathyroid hormone

*Sponsor*

2010-2012	Department of Defense U.S. Army Medical Research and Materiel Command Alterations of the bone marrow microenvironment contribute to prostate cancer skeletal metastasis (PI – Serk In Park) <i>Mentor to Serk In Park (post-doctoral fellow)</i>	\$62,080/yr
2009-2014	NIH:NCI Program Project Award P01 CA093900 The Biology of Prostate Cancer Skeletal Metastases (PI-E. Keller) <i>Co-Investigator (Principal Investigator on Project 4 and Core B)</i>	\$1,200,000/yr
2011-2016	Department of Defense Biomimetic Delivery of Biomolecules for Craniofacial Bone Regeneration W81XWH-12-2-0008 <i>Co-Principal Investigator with Peter Ma</i>	\$450,000/yr
2012-2018	NIH: NIDCR 1R01DE022327 PTH and Calcium Synergy for Craniofacial Regeneration <i>Co-Principal Investigator with Peter Ma</i>	\$250,000/yr
2012-2013	Fund for Cancer Research Role of efferocytosis in skeletal metastasis <i>Principal Investigator</i>	\$75,000/yr
2012-2014	NIH:NIDCR R44 DE022493 Repair of Bone Defects with Human Autologous Pluripotent Very Small Embryonic Like Stem Cells <i>Co-Principal Investigator with Russell Taichman and Denis Rodgerson</i>	\$1,221,854 over 2 years

2013-2018	National Institutes of Health RO1 DK053804-17 Anabolic Mechanisms of PTH Action in Bone <i>Principal Investigator</i>	\$210,000/yr
2014-2017	Department of Defense U.S. Army Medical Research and Materiel Command Prostate Cancer Training Award (PI – Jackie Jones-Triche, Ben Sinder) PC131802 Macrophage Efferocytosis and Prostate Cancer Bone Metastasis <i>Mentor to Jacqueline Jones-Triche, Ben Sinder</i>	\$54,000/yr
2015-2020	NIH:NCI Program Project Award P01 -11 The Biology of Prostate Cancer Skeletal Metastasis (PI- E.Keller) <i>Co-Investigator</i> (Principal investigator on Project 4)	\$1,000,000/ yr
2018-2020	NIH:NIDDK R56DK053904-18 Anabolic Actions of PTH in Bone <i>Principal Investigator</i>	\$100,000
2018-2023	NIH: NIDCR 1R01DE022327 Biomimetics for Craniofacial Regeneration <i>Principal Investigator</i>	\$250,000/yr
2019-2023	NIH: NIDCR 1F30DE028455 Macrophages Modulate Osteoclast Activity through Plasmin Regulation <i>Sponsor (Principal investigator for fellowship award)</i>	\$50,000/yr
2020-2025	NIH:NCI Program Project Award P01 -16 The Biology of Prostate Cancer Skeletal Metastasis (PI- E.Keller) <i>Co-Investigator</i> (Principal investigator on Project 4)	
2021-2023	Department of Defense (Early Investigator Research Award) W81XWH2110122 <i>Sponsor – (Principal investigator for post-doctoral fellow award)</i> “Regulation of prostate skeletal bone metastases by TIM-3 dependent efferocytosis”	\$100,000/yr
2021-2022	NIH: NIAMS 1R56AR07753901 “The role of efferocytic macrophages in bone formation” <i>Co-Principal Investigator</i>	\$285,630/yr
2021-2024	NIH: NIDCR F31 DE030697 <i>Sponsor – (Principal investigator for pre-doctoral award)</i> “Biomimetic Apoptotic Particles for Macrophage-driven Oral Bone Regeneration”	\$41,000/yr

## PUBLICATIONS

### Peer-Reviewed

**McCauley LK**, Rosol TJ, Capen CC, Horton JE. A comparison of bone turnover in athymic (nude) and euthymic mice. Biochemical, histomorphometric, bone ash and *in vitro* studies. Bone 10:29-34, 1989. PMID: 2736153

**McCauley LK**, Rosol TJ, Capen CC, Horton JE, Shanfeld J. Investigations on *in vitro* bone resorbing activity from athymic (nude) and euthymic mouse splenic lymphocytes. Bone 10:389-394, 1989. PMID: 2513857

**McCauley LK**, Rosol TJ, Stromberg PC, Capen CC. *In vivo* and *in vitro* effects of interleukin-1 $\alpha$  and cyclosporin A on bone and lymphoid tissues in mice. Toxicologic Pathology 19:1-10, 1991. PMID: 2047704

Rosol TJ, Merryman JI, **McCauley LK**, Capen CC. Effects of transforming growth factor  $\alpha$  on parathyroid hormone and parathyroid hormone-related protein-mediated bone resorption and adenylate cyclase stimulation *in vitro*. Domestic Animal Endocrinology 8:499-507, 1991. PMID: 1786699

**McCauley LK**, Rosol TJ, Merryman JI, Capen CC. Parathyroid hormone-related protein binding to human T cell lymphotropic virus type I-infected lymphocytes. Endocrinology 130:300-306, 1992. PMID: 1309334

**McCauley LK**, Rosol TJ, Capen CC. Effects of cyclosporin A on rat osteoblasts (ROS 17/2.8 cells) *in vitro*. Calcified Tissue International 51:291-297, 1992. PMID: 1330239

Rosol TJ, Merryman JI, **McCauley LK**, Werkmeister J, Steinmeyer C, Swayne D, Capen CC. Studies on chicken polyclonal antipeptide antibodies specific for parathyroid hormone-related protein (1-36). Veterinary Immunology and Immunopathology 35:321-337, 1993. PMID: 8430499

Nohutcu RM, **McCauley LK**, Horton JE, Capen CC, Rosol TJ. Effects of hormones and cytokines on stimulation of adenylate cyclase and intracellular calcium concentration in human and canine periodontal ligament cells. Archives of Oral Biology 38:871-879, 1993. PMID: 7506523

Merryman JI, Rosol TJ, **McCauley LK**, Werkmeister JR, Suter MM, Capen CC. Regulation of parathyroid hormone-related protein production by a squamous carcinoma cell line *in vitro*. Laboratory Investigation 69: 347-354, 1993. PMID: 8377475

Werkmeister JR, Rosol TJ, **McCauley LK**, Merryman JI, Horton JE, Capen CC. Parathyroid hormone-related protein production by normal human keratinocytes *in vitro* is associated with a less differentiated phenotype. Experimental Cell Research 208:68-74, 1993. PMID: 8359229

**McCauley LK**, Beecher CA, Melton ME, Werkmeister JR, Jüppner H, Abou-Samra AB, Segre GV, Rosol TJ. Transforming growth factor- $\beta$  regulates steady state PTH/PTHrP receptor mRNA levels and PTHrP binding in ROS 17/2.8 osteosarcoma cells. Molecular and Cellular Endocrinology 101: 331-336, 1994. PMID: 9397968

Okada H, Schanbacher FL, **McCauley LK**, Capen CC, Weckmann M, Rosol TJ. Secretion of parathyroid hormone-related protein by bovine mammary cells *in vitro*. Journal of Bone and Mineral Metabolism 12:S161-164, 1994.

Rosol TJ, Steinmeyer C, **McCauley LK**, Grone A, Capen CC, DeWille J. Nucleotide sequences of cDNAs for canine parathyroid hormone-related protein and parathyroid hormone. Gene 60:241-243, 1995. PMID: 7642102

Nohutcu RM, Somerman MJ, and **McCauley LK**. Dexamethasone enhances the effects of parathyroid hormone (PTH) on human periodontal ligament (PDL) cells *in vitro*. Calcified Tissue International 56:571-577, 1995. PMID: 7648489

**McCauley LK**, Koh AJ, Beecher CA, Cui Y, Decker J, Franceschi RT. Effects of differentiation and transforming growth factor  $\beta$  on PTH/PTHrP Receptor mRNA Levels in MC3T3-E1 Cells. Journal of Bone and Mineral Research 10:1243-1255, 1995. PMID: 8585429

**McCauley LK**, Koh AJ, Beecher CA, Cui Y, Rosol TJ, Franceschi RT. The PTH/PTHrP receptor is temporally regulated during osteoblast differentiation and is associated with collagen synthesis. Journal of Cellular Biochemistry 61:638-647, 1996. PMID: 8806088

Fang J, Zhu YY, Smiley E, Bonadio J, Rouleau JA, Goldstein SA, **McCauley LK**, Davidson B, Roessler B. Stimulation of new bone formation by direct transfer of osteoinductive transgenes. Proceedings of the National Academy of Science, U.S.A., 93:5753-5758, 1996. PMID: 8650165

Vander Molen MA, Rubin CT, McLeod KJ, **McCauley LK**, Donahue HJ. Gap junctional intercellular communication contributes to hormonal responsiveness in osteoblastic networks. Journal of Biological Chemistry 271:12165-12171, 1996. PMID: 8647809

Nohutcu RM, **McCauley LK**, Somerman MJ. Expression of mineral-associated proteins by periodontal ligament cells: *in vitro* vs. *ex vivo*. Journal of Periodontal Research, 31:369-372, 1996. PMID: 8858542

Okada HO, Schanbacher FL, **McCauley LK**, Weckman MT, Capen CC, Rosol TJ. Bovine mammary cells: A model of PTHrP secretion *in vitro*. Domestic Animal Endocrinology, 13:399-410, 1996. PMID: 8886593

Groene A, **McCauley LK**, Weckman MT, Capen CC, Rosol TJ. Parathyroid hormone/parathyroid hormone-related protein receptor expression in athymic mice with a transplantable canine apocrine adenocarcinoma (CAC-8) and humoral hypercalcemia of malignancy. Journal of Endocrinology, 153:123-129, 1997. PMID: 9135577

Nohutcu RM, **McCauley LK**, Koh AJ, Somerman MJ. Expression of Extracellular Matrix Proteins in Human Periodontal Ligament Cells During Mineralization *In Vitro*. Journal of Periodontology, 68:320-327, 1997. PMID: 9150036

**McCauley LK**, Koh AJ, Beecher CA, Rosol TJ. The proto-oncogene *c-fos* is transcriptionally regulated by parathyroid hormone and parathyroid hormone related-protein in a cAMP-dependent manner in osteoblastic cells. Endocrinology, 138:5427-5433, 1997. PMID: 9389528

Donahue HJ, Zhou Z, Li Z, **McCauley LK**. Age-related decreases in stimulatory G-protein coupled adenylate cyclase in osteoblastic cells. American Journal of Physiology, 273 (4 Pt 1): E776-81, 1997. PMID: 9357808

Werkmeister JR, Weckman MT, Gröne A, **McCauley LK**, Wade AB, Blomme E, O'Rourke J, Capen CC, Rosol TJ. Effects of transforming growth factor- $\beta$ 1 on parathyroid hormone-related protein expression by normal human keratinocytes *in vitro*. Endocrine, 8:291-299, 1998. PMID: 9741834

Wojcik SF, Schanbacher FL, **McCauley LK**, Zhou H, Kartsogiannis V, Capen CC, Rosol TJ. Cloning of bovine parathyroid hormone-related protein (PTHrP) cDNA and expression of PTHrP mRNA in the bovine mammary gland. Journal of Molecular Endocrinology, 20:271-280, 1998. PMID: 9584841

Hullinger TG, **McCauley LK**, DeJooe ML, Somerman MJ. Effect of bone proteins on the metastatic human prostate cancer cell line – DU145 cells *in vitro*. The Prostate, 36:14-22, 1998. PMID: 9650911

Blomme EAG, Sugimoto Y, **McCauley LK**, Lin YC, Capen CC, Rosol TJ. Stromal and epithelial cells of the canine prostate express parathyroid hormone-related protein, but not the PTH/PTHrP receptor. The Prostate, 36:110-120, 1998. PMID: 9655263

Anderson DG, Chiego DJ, Glickman GN, **McCauley LK**. A clinical assessment of the effects of 10% carbamide peroxide gel on human pulp tissue. Journal of Endodontics, 25:247-250, 1999. PMID: 10425949

Blomme EAG, Dougherty K, Pienta KJ, Capen CC, Rosol TJ, **McCauley LK**. Skeletal Metastasis of Prostate Adenocarcinoma in Rats: Morphometric Analysis and Role of Parathyroid Hormone-Related Protein. The Prostate, 39:187-197, 1999. PMID: 10334108

Koh AJ, Beecher CA, Rosol TJ, **McCauley LK**. Cyclic AMP activation in osteoblastic cells: Effects on PTH-1 receptors and osteoblastic differentiation *in vitro*. Endocrinology, 140:3154-3162, 1999. PMID: 10385409

Dougherty KM, Blomme EAG, Koh AJ, Henderson JE, Pienta KJ, Rosol TJ, **McCauley LK**. Parathyroid hormone related protein (PTHrP) as a growth regulator of prostate carcinoma. Cancer Research, 59:6015-6022, 1999. PMID: 10606251

Ouyang HJ, **McCauley LK**, D'Errico JA, Berry JE, Koh-Paige AJ, Strayhorn CL, Somerman MJ. Immortalized murine cementoblasts/periodontal ligament cells respond to parathyroid hormone and parathyroid hormone-related protein stimulation, *in vitro*. Archives of Oral Biology, 45:293-303, 2000. PMID: 10708669

Ouyang HJ, **McCauley LK**, Berry JE, Saygin NE, Tokiyasu Y, Somerman MJ. PTHrP regulates extracellular matrix gene expression in cementoblasts and inhibits cementoblast-mediated mineralization, *in vitro*. Journal of Bone and Mineral Research, 15:2140-2153, 2000. PMID: 11092395

Ouyang HJ, Franceschi RT, **McCauley LK**, Wang D, Somerman MJ. Parathyroid hormone-related protein down regulates bone sialoprotein gene expression in cementoblasts: Role of the protein kinase A pathway. Endocrinology, 141: 4671-4680, 2000. PMID: 11108282

**McCauley LK**, Koh-Paige AJ, Chen H, Chen C, Ontiveros C, Irwin R, McCabe LR. Parathyroid hormone stimulates *fra-2* expression in osteoblastic cells *in vitro* and *in vivo*. Endocrinology, 142:1975-1981, 2001. PMID: 11316763

**McCauley LK**. Transgenic Models of Metabolic Bone Disease. Current Opinion in Rheumatology, 13:316-325, 2001. PMID: 11555736

Gopalakrishnan R, Ouyang H, Somerman MJ, **McCauley LK**, Franceschi RT. Matrix Gla Protein is a key regulator of PTH-mediated inhibition of mineralization in osteoblasts. Endocrinology, 142:4379-4388 2001. PMID: 11564701

Keller ET, Zhang J, Cooper CR, Smith PC, **McCauley LK**, Pienta KJ, Taichman RS. Prostate carcinoma skeletal metastases: Cross-talk between tumor and bone. Cancer Metastasis Reviews, 20:333-349, 2001. PMID: 12085970



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Gröne A, **McCauley LK**, Capen CC, Rosol TJ. Cloning and Sequencing of the 3'-Region of the Canine Parathyroid Hormone-Related Protein Gene and Analysis of Alternate mRNA Splicing in Two Canine Carcinomas. Domestic Animal Endocrinology, 22(3):169-177, 2002. PMID: 11934525

**McCauley LK**, Tözüm TF, Rosol TJ. Estrogen Receptors in Skeletal Metabolism: Lessons from Genetically Modified Models of Receptor Function. Critical Reviews in Eukaryotic Gene Expression, 12:89-100, 2002. PMID: 12434924

Chen H, **McCauley LK**, DeSilva N. Cyclic AMP binding protein assay: an efficient assay for widespread use in cell signaling studies, Biotechniques, 33:66-72, 2002. PMID: 12139259

Chen H, Demiralp B, Schneider A, Koh AJ, Silve C, Wang C, **McCauley LK**. Parathyroid hormone and parathyroid hormone-related protein exert both pro- and anti-apoptotic effects in mesenchymal cells. Journal of Biological Chemistry, 277:19374-19381, 2002. PMID: 11897779

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Soki F, Cho SW, Koh AJ, McCauley LK. The impact of macrophage depletion on bone homeostasis and prostate tumor growth. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2011.

**The above abstract was selected for the plenary poster session at the ASBMR**

Park SI, Sadler W, Koh AJ, Soki F, McCauley LK. Parathyroid hormone-related peptide (PTHrP) up-regulates myeloid-derived suppressor cells (MDSCs) in the bone marrow, contributing to prostate cancer growth and angiogenesis. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2011.

Cho SW, Soki F, Koh AJ, Eber M, Entezami P, McCauley LK. The role of osteal macrophages in anabolic actions of PTH in bone. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2012.

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