

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

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

Type of Student	Name	Project Responsibilities
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	Timothy O'Connell	Committee member, Ph.D. dissertation defense, 1995
Pharmacology		
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
	Salman Choudhary, Ph.D.	Research supervisor, 1996
Post-doctoral Fellow		
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
	Kristian Dougherty, Ph.D.	Research mentor, 1996- 1999
Senior Res. Associate	Allan Padbury, Jr.	Research mentor, 1996-1998
Dental Student	Jing-Mei Ling	Research mentor, 1997-1998
Research Fellow		
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		Glenda Pettway	Research mentor, Dept. of Biomedical Engineering, directed research experience and Master's degree, 2002-2003
Ph.D. Student			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 Opportunity (UROP)	Research Student	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 st place award for clinical research 2009 *received the AAP Orban 1 st 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 st 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
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-present
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-present
American Society for Bone and Mineral Research, Task Force on Osteonecrosis of the Jaw	2006
9 th 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-present
Search committee, Editor, Journal of the American Dental Association	2020
American Society for Bone and Mineral Research (ASBMR) Program Advisory Committee	2019-2020

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 Grey 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)

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 Grey 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)

MLK Day Keynote and Health Sciences Symposium (01/17); King's Feast with 2018
 students/faculty/staff (01/27); DEI Day and Ida Grey 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)

MLK Day Keynote and Health Sciences Symposium (01/21); 2019
 King's Fest with students/faculty/staff (02/11); DEI Day and Ida Grey
 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

MLK Day Keynote and Health Sciences Symposium (01/14); 2020
DEI Day and Ida Grey 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)

MLK Day Keynote and Health Sciences Symposium (01/18); 2021
DEI-MAC Listing Session related to MLK Day (01/18); DEI Day and Ida Grey 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)

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, Nattick, 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, 50th 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 30th 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 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 6th, 2004. “The Bone Marrow Microenvironment and Prostate Cancer Localization.”

Unit for Lab Animal Medicine, University of Michigan, December 9th, 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 7th 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 29th, 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 9th 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 6th, 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 16th 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".

11th 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: 3rd 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 12th, 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.

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 Dental Teacher Training Award to pursue pedagogical and research training. <i>Principal Investigator/Trainee</i>	\$20,000
1992-1993	Biomedical Research Support Grant The Effects of Cyclosporin A on Osteoblasts. <i>Principal Investigator</i>	\$5,000
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 Analogs <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	\$75,000

	<i>Principal Investigator</i>	
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 <i>Principal Investigator</i>	\$7,500
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 The Biology of Prostate Cancer Skeletal Metastases (PI-E. Keller) <i>Co-Investigator</i> (PI on Project 4 and Core B)	\$1,189,870
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	\$212,000/yr

	<i>Principal Investigator</i>	
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 Project Title: Proteoglycan-4:A novel protein regulating skeletal actions of parathyroid hormone <i>Sponsor</i>	\$33,000/yr
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

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 α 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 α 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- β 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 β 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- β 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**, DeJoode 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

Taichman RS, Cooper C, Keller ET, Pienta KJ, Taichman NS, **McCauley LK**. Use of the Stromal Cell-derived Factor-1/CXCR4 Pathway in Prostate Cancer Metastasis to Bone. Cancer Research 62:1832-1837, 2002. PMID: 11912162

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

Demiralp B, Chen H, Koh AJ, Keller ET, **McCauley LK**. Anabolic effects of parathyroid hormone during endochondral bone growth are dependent on *c-fos*. Endocrinology: 143:4038-4047, 2002. PMID: 12239115

McCauley LK, Nohutcu RM. Mediators of Periodontal Osseous Destruction & Remodeling: Principles and Potentials for Therapeutic Intervention. Journal of Periodontology, 73:1377-1391, 2002. PMID: 12479643

Zeng Z, **McCauley LK**, Wang CY. Hepatocyte Growth Factor Inhibits Anoikis by Induction of AP-1-dependent Cyclooxygenase-2: Implication in Head and Neck Squamous Cell Carcinoma Progression, Journal of Biological Chemistry: 277:50137-50142, 2002. PMID: 12393863

Cooper CR, Chay CH, Gendernalik JD, Lee HL, Bhatia J, Taichman RS, **McCauley LK**, Keller ET, Pienta KJ. Stromal factors involved in prostate carcinoma metastasis to the bone. Cancer, Feb 1;97 (3 Suppl):739-747, 2003. PMID: 12548571

McCauley LK, Tözüm TF, Kozloff KM, Koh-Paige AJ, Chen C, Demashkieh M, Cronovich H, Richard V, Keller ET, Rosol TJ, Goldstein S. Transgenic Models of Metabolic Bone Disease: Impact of Estrogen Receptor Deficiency on Skeletal Metabolism, Connective Tissue Research, 44:250-263, 2003. PMID: 12952206

Chen H, Frankenberg L, Goldstein S, **McCauley LK**. The combination of local and systemic PTH enhances fracture healing. Clinical Orthopedics and Related Research, 416:291-302, 2003. PMID: 14646773

Schneider A, Taboas J, **McCauley LK**, Krebsbach PK. Skeletal homeostasis in tissue-engineered bone. Journal of Orthopaedic Research, 21: 859-864, 2003. PMID: 12919874

Kalikin LM, Schneider A, Thakur MA, Fridman Y, Griffin LB, Dunn RL, Rosol TJ, Shah RB, Rehemtulla A, **McCauley LK**, Pienta KJ. *In Vivo* Visualization of Metastatic Prostate Cancer and Quantitation of Disease Progression in Immunocompromised Mice. Cancer Biology and Therapeutics. 2:656-660, 2003. PMID: 14588471

Dillon S., Agrawal,A., Van Dyke T., Landreth,G., **McCauley LK**, Koh A., Maliszewski, C., Akira,S., Pulendran,B. A Toll-Like Receptor 2 Ligand Stimulates Th2 Responses In Vivo, via Induction of Extracellular Signal-Regulated Kinase Mitrogen-Activated Protein Kinase and c-Fos in Dendritic Cells. Journal of Immunology, 4733-4743, 2004. PMID: 15067049

Wei G, Pettway GJ, **McCauley LK**, Ma PX. The release profiles and bioactivity of parathyroid hormone from poly(lactic-co-glycolic acid) microspheres. Biomaterials. 25(2):345-52, 2004. PMID: 14585722

Dai J, Kitagawa Y, Zhang J, Yao Z, Mizokami A, Cheng S, Nor J, **McCauley LK**, Taichman RS, Keller ET. Vascular endothelial growth factor contributes to the prostate cancer-induced osteoblast differentiation mediated by bone morphogenetic protein. Cancer Res. 64(3):994-9, 2004. PMID: 14871830

Tozum TF, Oppenlander M, Koh-Paige AJ, Robins D, **McCauley LK**. Effects of Sex Steroid Receptor Specificity in the Regulation of Skeletal Metabolism. Calcified Tissue International, 75:60-70, 2004. PMID: 15037970

Boaboid F, Berry JE, Koh AJ, Somerman MJ, **McCauley LK**. The role of parathyroid hormone related protein (PTHrP) in the regulation of osteoclastogenesis by cementoblasts. J Periodontol, 75:1247-54, 2004. PMID: 15515341

Loberg RD, Fridman Y, Pienta BA, Keller ET, **McCauley LK**, Taichman RS, Pienta KJ. Detection and isolation of circulating tumor cells in urologic cancers: A review. Neoplasia: 6:302-309, 2004. PMID: 15256052

Chen C, Koh AJ, Datta NS, Zhang J, Keller ET, Xiao G, Franceschi RT, D'Silva NJ, **McCauley LK**. Impact of the mitogen-activated protein kinase pathway on parathyroid hormone-related protein actions in osteoblasts. J Biological Chemistry, 279:29121-29129, 2004. PMID: 15128746

Sun YX, Schneider A, Jung JH, Wang J, Dai J, Wang K, Cook K, Ishag-Osman NI, Liang Z, Koh AJ, Shim H, Pienta K, Kleer ET, **McCauley LK**, Taichman RS. Skeletal localization and neutralization of the SDF-1(CXCL12)/CXCR4 axis blocks prostate cancer metastasis and growth in osseous sites in vivo. J Bone Miner Res: 20:318-29, 2005. PMID: 15647826

Datta NS, Chen C, Berry JE, **McCauley LK**. PTHrP signaling targets cyclin D1 and induces osteoblastic cell growth arrest. J Bone Miner Res Jun;20(6):1051-64, 2005. PMID: 15883646

Lanning SK, Pelok SD, Williams BC, Richards PS, Sarment DP, Oh TJ, **McCauley LK**. Variation in Periodontal Diagnosis and Treatment Planning Among Clinical Instructors. J. Dental Education 69:325-37, 2005. PMID: 15749943

Schneider A, Kalikin LM, Mattos AC, Keller ET, Allen MJ, Pienta KJ, **McCauley LK**. Bone turnover mediates preferential localization of prostate cancer in the skeleton. Endocrinology 146:1727-1736, 2005. PMID: 15637291

Pettway GJ, Schneider A, Koh AJ, Widjaja E, Morris MD, Meganck JA, Goldstein SA, **McCauley LK**. Anabolic actions of PTH (1-34): Use of a novel tissue engineering model to investigate temporal effects on bone. Bone 36:959-970, 2005. PMID: 15878317

Koh AJ, Demiralp B, Neiva K, Hooten J., Nohutcu RM, Shim H, Datta NS, Taichman RS, **McCauley L.K**. Cells of the osteoclast lineage as mediators of the anabolic actions of parathyroid hormone in bone. Endocrinology: 146:4584-4596, 2005. PMID: 16081645

Jung Y, Wang J, Schneider A, Sun YX, Koh AJ, Osman NI, **McCauley LK**, Taichman RS. Regulation of SDF-1(CXCL12) production by osteoblasts in the hematopoietic microenvironment and a possible mechanism for stem cell homing. Bone: 38:497-508, 2006. PMID: 16337237

Zhang Z, Mitra RS, Henson BS, Datta NS, **McCauley LK**, Kumar P, Lee JS, Carey TE, D'Silva NJ. Rap1GAP Inhibits Tumor Growth in Oropharyngeal Squamous Cell Carcinoma. American Journal of Pathology 168:585-596, 2006. PMID: 16436672.

Lanning SK, Best AM, Temple HJ, Richards PS, Carey A, **McCauley LK**. Accuracy and consistency of radiographic interpretation among clinical instructors using two viewing systems. Journal of Dental Education: 70:149-159, 2006. PMID: 16478929

Berry JE, Ealba E, Pettway GJ, Datta N, Swanson E, Somerman MJ, **McCauley LK**. JunB as a mediator of the PTHrP actions in cementoblasts. Journal of Bone and Mineral Research: 21:246-257, 2006. PMID: 16418780

Lanning SK, Best AM, Temple HJ, Richards PS, Carey A, **McCauley LK**. Accuracy and consistency of radiographic interpretation among clinical instructors in conjunction with a training program. Journal of Dental Education 70:545-57, 2006. PMID: 16687640

Padbury AD, Tozum TF, Taba M, Ealba EL, West B, Burney RE, Gauger PG, Giannobile WV, **McCauley LK**. The impact of primary hyperparathyroidism on the oral cavity. Journal of Clinical Endocrinology and Metabolism 91:3439-3445, 2006. PMID: 16822829

Yamashita J, **McCauley LK**. The activating protein-1 transcriptional complex: Essential and multifaceted roles in bone. Clinical Reviews in Bone and Mineral Metabolism 4:107-122, 2006.

Somerman MJ, McCauley LK. Bisphosphonates: sacrificing the jaw to save the skeleton? BoneKey-Osteovision. IBMS 3(9):12-18, 2006.

Liao J, Schneider A, Datta NS, **McCauley LK**. Extracellular calcium as a candidate mediator of prostate cancer skeletal metastasis. Cancer Research 66:9065-9073, 2006. PMID: 16982748

Datta NS, Pettway GJ, Chen C, Koh AJ, **McCauley LK**. Cyclin D1 as a target for the proliferative effects of PTH and PTHrP in early osteoblastic cells. Journal of Bone and Mineral Research, 22:951-64, 2007. PMID: 17501623

Wang H-L, Weber D, **McCauley LK**. Effect of Long-term Oral Bisphosphonates on Implant Wound Healing: Literature Review and A Case Report, Journal of Periodontology 78:584-594, 2007. PMID: 17335384

Liao J, **McCauley LK**. Skeletal metastasis: Established and emerging roles of parathyroid hormone related protein (PTHrP). Cancer Metastasis Rev: 25(4):559-71, 2006. PMID: 17165129

Hou S, **McCauley LK**, Ma PX. Synthesis and Erosion Properties of PEG-Containing Polyanhydrides. Macromolecular Bioscience 7:620-628, 2007. PMID: 17457940

Liu X, Pettway GJ, **McCauley LK**, Ma PX. Pulsatile release of parathyroid hormone from an implantable delivery system. Biomaterials, 28:4124-4131, 2007. PMID: 17576005

Khosla S, Burr D, Cauley J, Dempster DW, Ebeling PR, Felsenberg D, Gagel RF, Gilsanz V, Guise T, Koka S, **McCauley LK**, McGowan J, McKee MD, Mohla S, Pendrys DG, Raisz LG, Ruggiero SL, Shafer DM, Shum L, Silverman SL, Van Poznak CH, Watts N, Woo SB, Shane E. Bisphosphonate-Associated Osteonecrosis of the Jaw: Report of a Task Force of the American Society for Bone and Mineral Research. Journal of Bone and Mineral Research 10:1479-1491, 2007. PMID: 17663640

Park BK, Zhang H, Zeng Q, Dai J, Keller E, Giordano T, Gu K, Sha V, Pei, L, Zarbo RJ, **McCauley LK**. Shi S, Chen, S, Wang, C-Y. NF- κ B in breast cancer cells promotes osteolytic bone metastasis by inducing osteoclastogenesis via GM-CSF, Nature Medicine, Vol 13 (1):62-69, 2007. PMID: 17159986

Yamashita J, Datta NS, Chun YP, Yang DY, Carey AA, Kreider JM, Goldstein SA, **McCauley LK**. Role of Bcl2 in osteoclastogenesis and PTH anabolic actions in bone. Journal of Bone and Mineral Research 23(5):621-32, 2008. PMID: 18086008.

Havens AM, Pederson EA, Shiozawa Y, Ying C, Jung Y, Sun Y, Neeley C, Wang J, Mehra R, Keller ET, **McCauley LK**, Loberg RD, Pienta KJ, Taichman RS. An In Vivo Mouse Model for Human Prostate Cancer Metastasis. Neoplasia, 10:371-380, 2008 PMID: 18392141

Pettway GJ, Meganck JA, Koh AJ, Keller ET, Goldstein SA, **McCauley LK**. Parathyroid Hormone Mediates Bone Growth through the Regulation of Osteoblast Proliferation and Differentiation. Bone, 42:806-18, 2008. PMID: 18234576

Jung Y, Song J, Shiozawa Y, Wang J, Wang Z, Williams B, Havens A, Schneider A, **McCauley LK**, Krebsbach PH, Taichman RS. Hematopoietic Stem Cells Regulate Development of Their Niche. Stem Cells: 26:2042-2051, 2008. PMID: 18499897

Liao J, Li X, Koh AJ, Berry JE, Thuda N, Rosol TJ, Pienta KJ, **McCauley LK**. PTHrP enhances prostate cancer tumorigenesis, angiogenesis and osteoblastic lesions. International Journal of Cancer 123: 2267-2278, 2008. PMID: 18729185

Berry JE, Pettway GJ, Cordell K, Jin T, Datta NS, **McCauley LK**. JunB as a mediator of PTHrP actions: New gene targets Ephrin B1 and VCAM-1. Oral Diseases, 14:713-726, 2008. PMID: 18765930

*This paper was selected as "Best Original Article of 2008" in Oral Diseases.

Novince C, Ward B, **McCauley LK**. Osteonecrosis of the Jaw: An update and review of recommendations. Cells, Tissues, Organs: 189(1-4):275-83, 2009. PMID: 18765930

Li X, Loberg R, Liao J, Ying C, Snyder L, Pienta KJ, **McCauley LK**. A Destructive Cascade Mediated by CCL2 Facilitates Prostate Cancer Growth in Bone. Cancer Research, 69:1685-92, 2009. PMID: 19176388

Chang J, Wang Z, Tang E, Fan Z, **McCauley LK**, Franceschi R, Guan K, Krebsbach PH, Wang CY. Inhibition of osteoblast functions by IKK/NF- κ B in osteoporosis. Nature Medicine: 15:682-9, 2009. PMID: 19448637

Toribio RE, Brown H, Novince C, Marlow B, Hernan K, Lanigan L, Hildreth B, Werbeck J, Shu S, Lorch G, Carlton M, Foley J, Bokaya B, **McCauley LK**, Rosol TJ. The mid-region, nuclear localization sequence and C-terminus of PTHrP regulate skeletal development, hematopoiesis and survival in mice. FASEB Journal, 24:1947-57, 2010. PMID: 20145205

Wang Z, **McCauley LK**. Osteoclasts and odontoclasts: signaling pathways to development and disease. Oral Diseases: 17:129-142, 2011, PMID: 20659257.

Thudi NK, Martin CK, Murahari S, Shu SS, Lanigan LG, Werbeck JL, Keller ET, **McCauley LK**, Pinzones JJ, Rosol TJ. Dickkopf-1 (DKK-1) stimulated prostate cancer growth and metastasis and inhibited bone formation in osteoblastic bone metastases. Prostate: On-Line October, 2010, PMID: 20957670

Yamashita J, **McCauley LK**, Van Poznak C. Updates on Osteonecrosis of the Jaw. Current Opinion in Supportive & Palliative Care: 4(3):200-6, 2010, PMID: 20657284.

Yamashita J, Yang DY, Koi A, **McCauley LK**. Effect of zoledronic acid on bone marrow and oral wound healing in rats. Clinical Cancer Research, 17:1405-1414. 2011, PMID: 21149614.

Bagramian RA, Taichman RS, **McCauley LK**, Green TG, Inglehart MR. Mentoring of dental and dental hygiene faculty: A case study. Journal of Dental Education: 75: 291-299, 2011, PMID: 21368253.

Pirih F, Michalski M, Koh A, Berry J, Ghaname E, Kamarajan P, Bonnelye E, Ross C, Kapila Y, Jurdic P, **McCauley LK**. The impact of parathyroid hormone on cells of the hematopoietic lineage: in vivo and ex vivo studies. PloS One, Oct 27;5(10):e13657, 2010, PMID: 21048959.

Bashutski JD, Eber R, Kinney J, Benavides E, Maitra S, Braun TM, Giannobile WV, **McCauley LK**. Teriparatide and osseous regeneration in the oral cavity. New England Journal of Medicine: Vol 363: 2396-2405, 2010, PMID: 20950166.

Li X, Koh AJ, Soki F, Park S, Pienta K, **McCauley LK**. Inhibitory effects of megakaryocytes in prostate cancer skeletal metastasis. Journal of Bone and Mineral Research: 26:125-134, 2011 PMID: 20684002.

Thudi NK, Shu ST, Martin CK, Lanigan LG, Nadella MVP, Van Bokhoven A, Werbeck JL, Simmons JK, Murahari S, Kisseberth WC, Breen M, Williams C, Chen C, **McCauley LK**, Keller ET, Rosol TJ. Development of a brain metastatic canine prostate cancer cell line. Prostate: 71:615-625, 2011.

Li X, Liao J, Park SI, Koh AJ, Sadler WD, Pienta KJ, Rosol TJ, **McCauley LK**. Drugs Which Inhibit Osteoclast Function Suppress Tumor Growth through Calcium Reduction in Bone. Bone: 48:1354-1361, 2011. PMID: 21419883

Bashutski JD, Eber R, Kinney J, Benavides E, Maitra S, Braun TM, Giannobile WV, **McCauley LK**. The impact of vitamin D status on periodontal surgery outcomes. Journal of Dental Research: 09:1007-1012, 2011. PMID: 21555774

Motyl KJ, **McCauley LK**, McCabe LR. Amelioration of Type I Diabetes-induced Osteoporosis by Parathyroid Hormone is Associated with Improved Osteoblast Survival. Journal of Cellular Physiology: 227:1326-1334, 2012. PMID: 21604269

Weilbaecher KN, Guise TA, **McCauley LK**. Cancer to bone: a fatal attraction (Invited review): Nature Reviews Cancer: 11:411-25. PMID: 21593787, PMCID: 3666847.

Novince CM, Koh AJ, Michalski MN, Marchesan JT, Wang J, Jung Y, Berry JE, Eber MR, Rosol TJ, Taichman RT, **McCauley LK**. Proteoglycan-4, a novel immunomodulatory factor, regulates parathyroid hormone actions on hematopoietic cells. American Journal of Pathology: 179:2431-2442, 2011. PMID: 21939632, PMCID:3204095

Koh AJ, Novince CM, Li X, Wang T, Taichman RT, **McCauley LK**. An Altered Murine Bone Marrow Microenvironment Impacts Anabolic Actions of PTH. Endocrinology, 152(12):4525-36, 2011. PMID: 22045660

McLean K, Gong Y, Choi Y, Deng N, Yang K, Bai S, Cabreara L, Keller E, **McCauley L**, Cho K, Buckanovich R. Human Ovarian Carcinoma Associated MSC Regulate Cancer Stem Cells and Tumorigenesis via Altered BMP Production. Journal of Clinical Investigation: 121:3206-3219, 2011. PMID: 21737876

Danciu TE, Li Y, Koh AJ, Xiao G, **McCauley LK**, Franceschi RT. The basic helix loop helix transcription factor twist1 is a novel regulator of ATF4 in osteoblasts. Journal of Cellular Biochemistry: 113:70-79, 2012. PMID: 21866569

Novince CM, Michalski MN, Sinder BP, Entezami P, Koh AJ, Eber MJ, Pettway GJ, Rosol TJ, Wronski TJ, Kozloff KM, **McCauley LK**. Proteoglycan-4: a dynamic regulator of skeletogenesis and PTH skeletal anabolism. Journal of Bone and Mineral Research: 27:11-25, 2012. PMID 21932346. PMCID: 4118835, Video Abstract: <http://www.youtube.com/watch?v=e3wtxvDuUu4>

Bashutski JD, Kinney J, Benavides E, Maitra S, Braun T, Giannobile WV, **McCauley LK**, Eber RM. Systemic teriparatide administration promotes osseous regeneration of an intrabony defect: A Case Report. Clinical Advances in Periodontics: 2:66-71, 2012.

Park SI, Soki FN, **McCauley LK**. Roles of bone marrow cells in skeletal metastases: No longer bystanders. Cancer Microenvironment: 4:237-246, 2011. PMID: 21809058

Park SI, **McCauley LK**. Nuclear localization of parathyroid hormone-related peptide confers resistance to anoikis in prostate cancer cells. Endocrine Related Cancer: 19(3):243-54, 2012. PMID: 22291434

Jung Y, Shiozawa Y, Wang J, McGregor N, Dai J, Park SI, Berry JE, Havens AM, Joseph J, Kim JK, Patel L, Carmeliet P, Daignault S, Keller ET, **McCauley LK**, Pienta KJ, Taichman RS. Prevalence of prostate cancer metastases following intravenous inoculation provides clues into the molecular basis of dormancy in the bone marrow microenvironment. Neoplasia: 14:429-439, 2012.

Park SI, Liao J, Berry J, Li X, Koh A, Michalski M, Eber M, Soki F, Sadler W, Sud S, Tisdelle S, Daignault SD, Nemeth J, Snyder L, Wronski T, Pienta K, **McCauley LK**. Cyclophosphamide creates a responsive microenvironment for prostate cancer skeletal metastasis. Cancer Research: 72:2522-2532, 2012. Press release: <http://ns.umich.edu/new/multimedia/videos/20392-fertilizing-bone-marrow-helps-answer-why-some-cancers-spread-to-bones>

McCauley LK, Martin TJ. Twenty-five years of PTHrP progress from cancer hormone to multifunctional cytokine. Invited Perspective, Journal of Bone and Mineral Research: 27:1231-9, 2012. PMID: 22549910

Soki FN, Park SI, **McCauley LK**. The multi-faceted actions of parathyroid hormone related protein in skeletal metastasis. Invited review, Future Oncology: 8:803-817, 2012. PMID 22830401

Yu C, Shiozawa Y, Taichman RS, **McCauley LK**, Pienta KJ, Keller ET. Prostate cancer and parasitism of the bone hematopoietic stem cell niche. Critical Reviews in Eukaryotic Gene Expression: 22:131-148 2012, PMID 22856431.

Yamashita J, **McCauley LK**. Antiresorptives and osteonecrosis of the jaw. Journal of Evidence Based Dental Practice: 12(3 Suppl):233-47, 2012, PMID: 23040351

Chan HL, **McCauley LK**. Parathyroid hormone application for craniofacial regeneration. Journal of Dental Research: 92(1):18-25, 2012, PMID: 23071071

Novince CM, Entezami P, Wilson CG, Wang J, Koh AJ, Michalski MN, Sinder BP, Kozloff KM, Taichman RS, **McCauley LK**. The impact of proteoglycan-4 and parathyroid hormone on articular cartilage degeneration. Journal of Orthopaedic Research: 31:183-90, 2013. PMID: 22898906

Soki* FN, Li* X, Berry J, Koh AJ, Sinder BP, Qian X, Kozloff KM, Taichman RS, **McCauley LK**. The effects of zoledronic acid in the bone and vasculature support of hematopoietic stem cell niches. Journal of Cellular Biochemistry: 114(1):67-78, 2013. *equal contributions; PMID 22833499, PMCID: 3593195.

Cho SW, Pirih FQ, Michalski M, Eber M, Ritchie K, Sinder B, Oh S, Lee J, Kozloff K, Danciu T, Wronski T, **McCauley LK**. Soluble interleukin-6 receptor signaling is a mediator of hematopoietic and skeletal actions of parathyroid hormone. Journal of Biological Chemistry: 288:6814-25, 2013. PMID: 23297399, PMCID: 3591592.

Kuroshima S, Kozloff K, **McCauley LK**, Yamashita J. Intraoral PTH injections promote tooth extraction socket healing in rats. Journal of Dental Research: 92:553-559, 2013, PMID: 23611925. PMCID: PMC3654759.

Ding X, Park SI, **McCauley LK**, Wang CY. Signaling between TGF-beta and Transcription factor SNAI2 Represses Expression of microRNA miR-203 to Promote Epithelial-Mesenchymal Transition and Tumor Metastasis. Journal of Biological Chemistry: 288:10241-53, 2013. PMID 23447531.

Jiang Y, Dai J, Zhang H, Sottnik JL, Keller JM, Escott KJ, Sanganee HJ, Yao Z, **McCauley LK**, Keller ET. Activation of the Wnt pathway through use of AR79, a glycogen synthase kinase 3 β inhibitor, promotes prostate cancer growth in soft tissue and bone. Mol Cancer Res: 11:1597-610, 2013, PMID 24088787.

Park SI, Lee C, Sadler WD, Koh AJ, Soki FN, Cho SW, Daignault SD, **McCauley LK**. Parathyroid hormone-related protein supports prostate cancer growth through a CD11b+Gr1+ cell-mediated feedback loop. Cancer Research: 73: 6574-83, 2013, PMID: 24072746, PMCID: 3838921.

Kuroshima S, Entezami P, **McCauley LK**, Yamashita J. Early effects of parathyroid hormone on bisphosphonate/steroid-associated compromised osseous wound healing. Osteoporosis Intl. 25:1141-50, 2014. PMID: 24301537, PMCID: 3923117.

Zhang H, Yu C, Dai J, Keller JM, Hua A, Sottnik JL, Shelley G, Hall CL, Park SI, Yao Z, Zhang J, **McCauley LK**, Keller ET. Parathyroid hormone-related protein inhibits DKK1 expression through c-Jun-mediated inhibition of β -Catenin activation of the DKK1 promoter in prostate cancer. Oncogene:8: 2464-77, 2014, PMID 23752183, PMCID:4004708.

Cho SW, Soki FN, Koh AJ, Eber M, Entezami P, Park SI, van Rooijen N, **McCauley LK**. Osteal macrophages support physiologic skeletal remodeling and anabolic actions of parathyroid hormone in bone. PNAS: 111: 1545-50, 2014. PMID: 24406853, PMCID: PMC3910564

McCauley LK, Dalli J, Koh AJ, Chiang N, Serhan CN. Cutting edge: Parathyroid hormone facilitates macrophage efferocytosis in bone marrow via proresolving mediators resolvin D1 and resolvin D2. J Immunol 193:26-29, 2014. PMID: 24890726, PMCID: 4285693.

Krishnamurthy S, Warner KA, Dong Z, Imai A, Nor C, Ward BB, Helman JI, Taichman RS, Bellile EL, **McCauley LK**, Pulverini PJ, Prince ME, Wicha MS, Nor JE. Endothelial interleukin-6 defines the tumorigenic potential of primary human cancer stem cells. Stem Cells: 32:2845-57, 2014. PMID: 25078284, PMCID: 4198458.

Soki FN, Koh AJ, Jones JD, Kim YW, Dai J, Keller ET, Pienta KJ, Atabai K, Roca H, **McCauley LK**. Polarization of prostate cancer-associated macrophages is induced by milk fat globule-EGF factor 8 (MFG-E8)-mediated efferocytosis. J Biol Chem:289:24560-72, 2014. PMID 25006249, PMCID:4148880. Highlighted in Nature Science Business Exchange (SciBx), August 2014. <http://www.nature.com/scibx/journal/v7/n31/full/scibx.2014.919.html>

Khan AA, Morrison A, Hanley DA, Felsenberg D, **McCauley LK**, O’Ryan F, Reid IR, Ruggerio S, Taguchi A, Tetradis S, Watts NB, Brandi ML, Peters E, Guise T, Eastell R, Sheung AM, Morin SN, Masri B, Cooper C, Morgan S, Obermayer-Pietsch B, Langdahl BL, Al Dabagh R, Davison KS, Kendler D, Sandor GK, Josse RG, Bhandari M, El Rabbany M, Pierroz DD, Sulimani R, Saunders DP, Brown JP, Compston J. Diagnosis and management of osteonecrosis of the jaw: A systematic review and international consensus. Journal of Bone and Mineral Research: 30:3-23, 2015, PMID:25414052.

Roca H, **McCauley LK**. Inflammation and skeletal metastasis. Bonekey Reports 4:706, 2015. PMID:26131358. PMCID:4461889.

Wang L, Tran AB, Nociti FH, Thumbigere-Math V, Foster BL, Krieger CC, Kantovitz KR, Novince CM, Koh AJ, **McCauley LK**, Somerman MJ. PTH and Vitamin D repress DMP1 in cementoblasts. Journal of Dental Research: 94:1408-16, 2015. PMID: 26276370, PMCID:4577985.

Chang J, Koh AJ, Roca H, **McCauley LK**. Juxtacrine interaction of macrophages and bone marrow stromal cells induce interleukin-6 signals and promote cell migration. Bone Research, 3:15014, 2015. PMID: 26558138, PMCID: 4637844.

Al-Dujaili SA, Koh AJ, Dang M, Mi X, Chang W, Ma PX, **McCauley LK**. Calcium sensing receptor function supports osteoblast survival and acts as a co-factor in PTH anabolic actions in bone. J Cell Biochem: 117:1556-67, 2015. PMID 26579618, PMCID:4856537. Journal cover image July 2016 - <http://onlinelibrary.wiley.com/doi/10.1002/jcb.25589/full>.

Soki FN, Cho SW, Kim YW, Jones JD, Park SI, Koh AJ, Entezami P, Daignault-Newton S, Pienta KJ, Roca H, **McCauley LK**. Bone marrow macrophages support prostate cancer growth in bone. Oncotarget, 6:35782-96, 2015. PMID:26459393, PMCID:4742141.

Sinder BP, Pettit A, **McCauley LK**. Macrophages: Their emerging roles in bone. Journal of Bone and Mineral Research, 30:2140-9, 2015. PMID: 26531055, PMCID:4876707.

Michalski MN, Koh AJ, Weidner S, Roca H, **McCauley LK**. Modulation of osteoblastic cell efferocytosis by bone marrow macrophages. J Cell Biochem, 117:2697-2706, 2016. PMID:27061191, PMCID:5055427.

Wang CC, **McCauley LK**. Osteoporosis and Periodontitis. Current Osteoporosis Reports: 14:284-291, 2016. PMID:27696284, PMCID: 5654540.

Dang M, Koh AJ, Danciu T, **McCauley LK**, Ma PX. Preprogrammed long-term systemic pulsatile delivery of parathyroid hormone to strengthen bone. Advanced Healthc Materials, 6(3), 2017, PMID: 27930873, PMCID: 5299037.

Dai J, Lu Y, Roca H, Keller JM, Zhang J, McCauley LK, Keller ET. Immune mediators in the tumor microenvironment of prostate cancer. Chin J Cancer, 36:29-37, 2017. PMID: 28292326, PMCID: 5351274.

Dang M, Koh AJ, Jin X, **McCauley LK**, Ma PX. Local pulsatile PTH delivery regenerates bone defects via enhanced bone remodeling in a cell-free scaffold. Biomaterials, 114:1-9, 2017. PMID:27835763, PMCID:5125900.

Khan AA, Morrison A, Kendler DL, Rizzoli R, Hanley DA, Felsenberg D, **McCauley LK**, O’Ryan F, Reid IR, Ruggiero SL, Taguchi A, Tetradis S, Watts NB, Brandi ML, Peters E, Guise T, Eastell R, Cheung AM, Morin SN, Masri B, Cooper C, Morgan SL, Obermayer-Pietsch B, Langdahl BL, Dabagh RA, Davison KS, Sandor GK, Josse RG, Bhandari M, El Rabbany M, Pierroz DD, Sulimani R, Saunders DP, Brown JP, Compston J. J Clin Densitom, 20:8-14, 2017. PMID:27956123

Michalski MN, **McCauley LK**. Macrophages and skeletal health. Pharmacology & Therapeutics: 174:43-54, 2017. PMID: 28185913, PMCID:5429177.

Koh AJ, Sinder BP, Entezami P, Nilsson L, **McCauley LK**. The skeletal impact of the chemotherapeutic agent etoposide. Osteoporosis International, 28:2321-2333, 2017, PMID:28429052, PMCID:5527337.

Sinder BP, Zweifler L, Koh AJ, Michalski MN, Hofbauer LC, Roca H, **McCauley LK**. Bone mass is compromised by the chemotherapeutic trabectedin via effects on osteoblasts and macrophage efferocytosis. Journal of Bone and Mineral Research: 32:2116-2127, 2017, PMID:28600866, PMCID: 5640484.

McCauley LK. The future of dental schools in research universities and academic health centers. Journal of Dental Education: 81:eS91-eS96, 2017. PMID: 28864809.

Roca H, Jones JD, Purica M, Weidner S, Koh AJ, Kuo R, Wilkinson JE, Wang Y, Daignault-Newton S, Pienta KJ, Morgan TM, Keller ET, Nör JE, Shea LD, **McCauley LK**. Apoptosis-induced CXCL5 accelerates inflammation and growth of prostate tumor metastases in bone. Journal of Clinical Investigation: 128:248-266, 2018, PMID:29202471, PMCID:5749545.

Michalski MN, Seydel AL, Siismets EM, Zweifler LE, Koh AJ, Sinder BP, Aguirre JI, Atabai K, Roca H, **McCauley LK**. Inflammatory bone loss associated with MFG-E8 deficiency is rescued by teriparatide. FASEB J: 32:3730-3741, 2018. PMID: 29475373, PMCID:5998979.

Chang J, Hakam AE, **McCauley LK**. Current understanding of the pathophysiology of osteonecrosis of the jaw. Current Osteoporosis Reports: 16:584-595, 2018, PMID:30155844, PMCID:in process.

Berglundh T, Armitage G, Araujo MG, Avila-Ortiz G, Blanco J, Camargo PM, Chen S, Cochran D, Derks J, Figuero E, Hammerle CHF, Heitz-Mayfield LJA, Huynh-Ba G, Iacono V, Koo KT, Lambert F, **McCauley L**, Quirynen M, Renvert S, Salvi GE, Schwarz F, Tarnow D, Tomasi C, Wang HL, Zitzmann N. Peri-Implan diseases and conditions: Consensus report of workgroup 4 of the 2017 World Workshop on the Classification of Periodontal and Peri-Implant Diseases and Conditions. J. Periodontology, 89(Suppl 1):S313-S318, 2018 and J Clin Periodontol 45 Suppl 20:S286-S291, 2018. PMID 29926955 and 29926491.

Roca H, **McCauley LK**. Efferocytosis and prostate cancer skeletal metastasis: Implications for intervention. Oncoscience: 29:174-176, 2018, PMID:30035182, PMCID:6049312.

Michalski MN, Zweifler LE, Sinder BP, Koh AJ, Yamashita J, Roca H, **McCauley LK**. Clodronate-loaded liposome treatment has site-specific skeletal effects. J Dent Res. 98:459-467, 2019. PMID:30626255, PMCID: 6429666.

Jones JD, Sinder BP, Paige D, Soki FN, Koh AJ, Thiele S, Shiozawa Y, Hofbauer LC, Daignault S, Roca H, **McCauley LK**. Trabectedin reduces skeletal prostate cancer tumor size in association with effects on M2 macrophages and efferocytosis. Neoplasia: 21:172-184, 2019. PMID:30591422, PMCID:6314218.

Yamashita J and **McCauley LK**. Effects of intermittent administration of parathyroid hormone and parathyroid hormone-related protein on fracture healing: A narrative review of animal and human studies. JBMR Plus:22:e10250, 2019. PMID:31844831, PMCID:6894727.

Sorkin M, Huber AK, Hwang C, Menon R, Carson WF, Patel N, Pagani C, Li J, Vasquez K, Li S, Visser ND, Niknafs Y, Loder S, Scola M, Nycz D, Gallagher K, **McCauley LK**, Xu J, James AW, Agarwal S, Kunkel S, Mishina Y, Levi B. Regulation of heterotopic ossification by monocytes in a mouse model of aberrant wound healing. Nature Communications: 11:722, 2020, PMID:32024825, PMCID:7002453.

Mendoza-Reinoso V, Youn Baek D, Kurutz A, Rubin JR, Koh AJ, **McCauley LK***, Roca H*. Unique efferocytic gene expression profiles of bone marrow-derived and peritoneal macrophages during apoptotic cancer cell clearance. Cells: 9(2). Pii:E429. 2020, PMID:32059476. PMCID:7226332 (*co-senior authorship)

Mi X, Gupte MJ, Zhang Z, Swanson WB, **McCauley LK**, Ma PX. Three dimensional electrodeposition of calcium phosphates on porous nanofibrous scaffolds and their controlled release of calcium for bone regeneration. ACS Appl Mater Interfaces: 12:32503-32513, PMID:32659074, PMCID:7384879.

Fontana M, **McCauley LK**, Fitzgerald M, Eckert G, Yanca E, Eber R. Impact of COVID-19 on life experiences of essential workers attending a dental testing facility. JDR Clinical & Translational Research, 6:24-39, 2021. PMID: 32959709.

Lieberthal B, **McCauley LK**, Feldman CA, Fine DH. COVID-19 and Dentistry: Biological considerations, testing strategies, issues, and regulations. Compend Contin Educ Dent. 42:290-296, 2021. PMID: 34077663.

Zweifler LE, Koh AJ, Daignault-Newton S, **McCauley LK**. Anabolic actions of PTH in murine models: Two decades of insights. J Bone Miner Res, 36:1979-1998, 2021. PMID: 34101904.

Batoon L, **McCauley LK**. Cross talk between macrophages and cancer cells in the bone metastatic environment. *Frontiers in Endocrinology*, Nov 3;12:763846. doi: 10.3389/fendo.2021.763846. eCollection 2021 PMID: 34803925

Mondoza-Reinoso V, Schnepf PM, Baek DY, Rubin JR, Schipani E, *Keller ET, ***McCauley LK**, *Roca H. Macrophages induce inflammation by efferocytosis of apoptotic prostate cancer cells via HIF-1 α stabilization. In review, 2021. *co-senior authorship.

BOOK CHAPTERS

McCauley LK and Somerman MJ. Biological modifiers in periodontal regeneration. In: Dental Clinics of North America, Ed: Vandersall DC, Pub: W.B. Saunders, Vol 42 (2):361-387, 1998. PMID: 9597341

McCauley LK, Schneider A. PTHrP and Skeletal Metastasis. In: The Biology of Bone Metastases. Editors: Keller ET, Chung LW. *Cancer Treat Res*. 118:125-47, 2004. PMID: 15043191

Rosol TJ, Tannehill-Gregg S, Corn S, Schneider A, **McCauley LK**. Animal Models of Bone Metastasis. In: The Biology of Bone Metastases. Editors: Keller ET, Chung LW. *Cancer Treat Res*. 118:47-81, 2004. PMID: 15043188

Pettway GJ, **McCauley LK**, Ossicle and vossicle implant model systems. Methods in Molecular Biology/Molecular Medicine: Osteoporosis: 455:101-10, 2008.

Pirih F, **McCauley LK**, Wacktafski-Wende J. Oral Manifestations of Metabolic Bone Disease. Chapter 109, 7th Edition, *ASBMR Primer on the Metabolic Bone Diseases and Disorders of Mineral Metabolism*, p513-517, 2008.

Park S, **McCauley LK**, Gallick GE. Pre-Clinical Mouse Models of Prostate Cancer, in: *Current Protocols in Pharmacology and Drug Discovery*, 51:14.15-14.15.27., 2010. PMID: 21483646

Bashutski J, Taichman S, **McCauley LK**. Impact of Metabolic Bone Disease on Craniofacial Bones and Teeth, In *Mineralized Tissues in Oral and Craniofacial Science: Biological Principles and Clinical Correlates*, Edited by **McCauley LK** and Somerman MJ., Wiley-Blackwell Publishers, ISBN 978-0-470-95833-9, 2012.

Cho SW, **McCauley LK**. Parathyroid hormone: A dynamic regulator of bone, immune, and hematopoietic cells. In *Osteoimmunology: Interactions of the Immune and Skeletal Systems*. Editor: Yongwon Choi, pp57-72, 2013.

Jordan E, Davis S, Rakes P, **McCauley LK**, Bashutski J. Vitamin D and dental health. In: *Handbook of Vitamin D in Human Health: Prevention, treatment and toxicity*. Editor: Ronald Ross Watson, pp355-372, 2013.

Non-Peer-Reviewed Publications, Commentaries, Perspectives

Creath CJ, Hipsher TG, **McCauley LK**. Review of the activities of the AADS Council of Students. Journal of Dental Education 51:486-488, 1987. PMID: 3475333

Horton JE, **McCauley LK**. On the loss of alveolar bone in periodontal disease. In Proceedings of "Symposium on Current Topics in Periodontal Disease." Ikedo T, et al (Eds.) Nihon University at Matsudo, Japan. pp. 23-33 (Jap.); 109-121 (Eng.) 1990.

Horton JE, **McCauley LK**. Mechanisms and control of alveolar bone loss in periodontal disease. In Recent Advances in Periodontology, Volume II. Gold S, et al, (Eds.), Elsevier, Amsterdam. pp. 23-30, 1991.

Rosol TJ, Merryman JI, **McCauley LK**, Werkmeister J, Swayne D, Capen CC. Pathogenesis of cancer-associated hypercalcemia of malignancy: characterization of polyclonal antibodies to parathyroid hormone-related protein. Published in Vitamin D -1991: Molecular, Cellular, and Clinical Endocrinology. A. W. Norman, K. Schaefer, H.G. Grigoleit, D. V Herrath, Eds. Walter de Gruyter, Berlin/New York, 1991.

Rosol TJ, **McCauley LK**, Steinmeyer CL, Capen CC. Nucleotide sequence of canine preproparathyroid hormone. In: The Comparative Endocrinology of Calcium Regulation. Eds: C Dacke, J Danks, I Caple, and G Flik. Bristol, Journal of Endocrinology Ltd., pp201-203, 1996.

Klibanski A, Adams-Campbell L, Bassford T, Blair SN, Boden SD, Glasse L, Gifford D, Goldring S, Dickersin K, Hruska K, Johnson SR, **McCauley LK**, Russell W. Consensus Development Conference Statement on Osteoporosis Prevention, Diagnosis, and Therapy. National Institutes of Health, 2000.

Robert L. Vessella, Theresa A. Guise, Edward S. Susman, Larry J. Suva, Gregory A. Clines, Scott L. Kominsky, Kristy L. Weber, John M. Chirgwin, Laurie K. **McCauley**, and Wende Kozlow Meeting Report from Skeletal Complications of Malignancy IV: A symposium jointly sponsored by The Paget Foundation for Paget's Disease of Bone and Related Disorders, the National Cancer Institute, and the University of Virginia School of Medicine, April, 2005 Bethesda, Maryland, USA BoneKEy-Osteovision 2006 Mar 1 doi:10.1138/20060203

Schipani E, Ferrari S, Datta NS, **McCauley LK**, Vignery A, Bellido T, Strewler GJ, Turner CH, Jiang Y, Seeman E. Meeting Report from the 28th Annual Meeting of the American Society for Bone and Mineral Research. BoneKEy-Osteovision. 2006 November;3(11):14-50.

McCauley LK. Bisphosphonate-associated ONJ: at the interface of dentistry and medicine: Invited Commentary. Endocrine Today, October 2007.

Khosla S, Burr D, Cauley J, Dempster DW, Ebeling PR, Felsenberg D, Gagel RF, Gilsanz V, Guise T, Koka S, **McCauley LK**, McGowan J, McKee MD, Mohla S, Pendrys DG, Raisz LG, Ruggiero SL, Shafer DM, Shum L, Silverman SL, Van Poznak CH, Watts N, Woo SB, Shane E. Oral bisphosphonate-induced osteonecrosis: risk factors, prediction of risk using serum CTX testing, prevention, and treatment. J Oral Maxillofac Surg. 2008 Jun;66(6):1320-1 (Letter to the Editor)
PMID: 18486811

Novince C, **McCauley LK**. Toward a better understanding of bisphosphonates and their potential for impacting orthodontic therapy. Proceedings of the Moyers Symposium, 2008.

Pirih FQ, Zablotzky M, Cordell K, **McCauley LK**. Case report of implant placement in a patient with Paget's disease on bisphosphonate therapy. Journal of the Michigan Dental Association, 91:38-43, 2009. PMID: 19537656

Park SI, **McCauley LK**. IBMS Bone Key Meeting Report "Imaging and Proteomics of Bone Metastasis: The Ninth International Meeting on Cancer Induced Bone Disease October 28-31, 2009 in Arlington, Virginia, the USA, BoneKEy-Osteovision. 2010 January.

McCauley LK. C-Maf and you won't see fat. Journal of Clinical Investigation: 120:3440-2, 2010, PMID: 20877008.

McCauley LK. UM School of Dentistry: an amazing year! J Mich Dent Assoc 96:34-7, 2014.

McCauley LK. Clinical recommendations for prevention of secondary fractures in patients with osteoporosis: Implications for dental care. J American Dental Association 151:311-313, 2020. (Author's response in JADA 151:555, 2020.)

Testing for Tomorrow (T4T) Collaborative (Alfano M, Donoff RB, Poznansky M, Kochman D, Lieberthal B, Bhansali S, Neale A, Bryant D, Glickman R, Moursi A, Feldman CA, Fine D, Kess S, Levy A, Ismail A, Rams T, Reddy M, Gansky S, Ramneek R, **McCauley LK**, Eber R, Wolff M, Krumholz H) Perspectives on meeting the COVID-19 testing challenge: A dental school collaborative. Journal of Dental Education, 2020.

BOOK

Mineralized Tissues in Oral and Craniofacial Science: Biological Principles and Clinical Correlates, Edited by **McCauley LK** and Somerman MJ., Wiley-Blackwell Publishers, ISBN 978-0-470-95833-9, 2012. <http://www.wiley.com/WileyCDA/WileyTitle/productCd-0470958332.html>

PATENTS

UM-3711 (UMJ-194-B) Delivery device and method for forming the same (Delivery device for pulsatile delivery of PTH). USPTO Patent Number: 8,623,397

PX Ma, M Dang, **LK McCauley**. Delivery devices and methods for making the same, US Patent filed on September 23, 2016.

PX Ma, M Dang, **LK McCauley**. Biomimetic microspheres and the methods of making the same. Disclosure filed at the University of Michigan Technology Transfer Office, April, 2017.

PX Ma, M Dang, **LK McCauley**. Apoptotic-mimicking structures. Disclosure filed at the University of Michigan Technology Transfer Office, August, 2018.

SCIENTIFIC ABSTRACTS

Duckworth JE, Melcer A, Siegel R, **McCauley LK**, Guju G. Evaluation of two methods for clinical analysis of serial intraoral radiographs. Abstracts of the International Association for Dental Research, Las Vegas, Nevada, March 1985 and published in Journal of Dental Research, 1985, 64:205.

McCauley LK, Rosol TJ, Capen CC, Horton JE. Comparison of bone remodeling in euthymic and athymic (nude) mice. Abstracts of the International Association for Dental Research, Montreal, Canada, March 1988 and published in Journal of Dental Research, 1988 67:147.

McCauley LK, Rosol TJ, Capen CC, Horton JE. Comparative histomorphometric evaluation of bone *in vivo*, splenic lymphocyte-mediated bone resorption *in vitro*, and lymphocyte blastogenic transformation in athymic and euthymic mice. Abstracts of the American Society for Bone and Mineral Research, New Orleans, Louisiana, June, 1988 and published in Journal of Bone and Mineral Research, 1988, 3:S187.

Saito S, Ngan P, Rosol T, **McCauley LK**, Shanfeld J, Davidovitch Z. Bone resorption by conditioning medium after IL-1 β administration to fibroblasts. Abstracts of the American Association for Dental Research, San Francisco, California, March 1989 and published in Journal of Dental Research, 1989, 68:257.

McCauley LK, Rosol TJ, Capen CC, Horton JE. Bone resorbing activity and adenylate cyclase stimulation in leukocyte cultures. Abstracts of the American Association for Dental Research and the International Association for Dental Research, San Francisco, California, March 1989 and Dublin, Ireland, June 1989, and published in Journal of Dental Research, 1989, 68:171 and 68:856.

The above abstract was selected as a Hatton award recipient by the American Assoc. of Dental Research, and as a 2nd place Hatton award recipient by the International Assoc. of Dental Research.

McCauley LK, Rosol TJ, Capen CC. Effects of interleukin-1 and cyclosporin A on serum calcium and bone resorption *in vivo* and *in vitro*. Abstracts of the American Society for Bone and Mineral Research, and International Conferences of Calcium Regulating Hormones, Montreal, Canada, September 1989 and published in the Journal of Bone and Mineral Research, 1989, 4:S288.

McCauley LK, Rosol TJ, Stromberg PC, Capen CC. Effects of interleukin-1 alpha infusion on bone remodeling and the immune system in mice. Abstracts of the American College of Veterinary Pathologists, Baltimore, Maryland, November 1989.

McCauley LK, Rosol TJ, Capen CC. Interleukin-1 and cyclosporin: Effects on serum calcium and bone resorption *in vivo* and *in vitro*. Abstracts of the 79th Annual Meeting of U.S. and Canadian Academy of Pathology, Boston, Massachusetts, March 1990 and published in Laboratory Investigation, 1990, 62:65A.

McCauley LK, Rosol TJ, Stromberg PC, Capen CC. Interleukin-1a and cyclosporin A: Effects on bone and the immune system. Abstracts of the International and American Associations for Dental Research, Cincinnati, OH, March, 1990 and published in the Journal of Dental Research, 1990, 69:350.

Rosol TJ, Merryman JI, **McCauley LK**, Steinmeyer CL, Swayne D, Capen CC. Characterization of polyclonal and monoclonal antibodies to parathyroid hormone-related protein (PTHrP). Abstracts of the American Society for Bone and Mineral Research, Atlanta, Georgia, August, 1990 and published in the Journal of Bone and Mineral Research, 1990, 5:S194.

McCauley LK, Rosol TJ, Capen CC. Binding of parathyroid hormone and parathyroid hormone-related protein to human T-cell lymphotropic virus-1 infected lymphocytes (MT-2 Cells). Abstracts of the American Society for Bone and Mineral Research, Atlanta, Georgia, August, 1990 and published in the Journal of Bone and Mineral Research 1990, 5:S194.

McCauley LK, Rosol TJ, Capen CC. Receptors for parathyroid hormone-related protein on lymphocytes infected with HTLV-1. Abstracts of the American Academy of Periodontology Research Forum, Dallas, Texas, October, 1990.

Rosol TJ, Merryman JI, **McCauley LK**, Capen CC. Effects of transforming growth factor α on parathyroid hormone- and parathyroid hormone-related protein-mediated bone resorption and adenylate cyclase stimulation *in vitro*. Abstracts of the American College of Veterinary Pathologists, Phoenix, Arizona, December 1990.

Rosol TJ, Merryman JI, **McCauley LK**, Werkmeister J, Swayne D, Capen CC. Pathogenesis of humoral hypercalcemia of malignancy (HHM): Production of polyclonal antibodies to parathyroid hormone-related protein (PTHrP) in chickens. Abstracts of the 80th Annual Meeting of U.S. and Canadian Academy of Pathology, Chicago, Illinois, March, 1991 and published in Laboratory Investigation, 1991, 64:33A.4

McCauley LK, Rosol TJ, Capen CC. HTLV-1 infected lymphocytes (MT-2 Cells) have receptors for parathyroid hormone related-protein. Abstracts of the 80th Annual Meeting of U.S. and Canadian Academy of Pathology, Chicago, Illinois, March, 1991 and published in Laboratory Investigation, 1991, 64:78A.

The above abstract was awarded the Stowell-Orbison award for Pathologists in-training at the 1991 meeting of the U.S. and Canadian Academy of Pathology.

Werkmeister J, Rosol TJ, **McCauley LK**, Merryman JI, Horton J, Capen CC. Regulation of Parathyroid Hormone-Related Protein in Normal Human Keratinocytes. Abstracts of the International and American Associations for Dental Research, Acapulco, Mexico, April, 1991 and published in the Journal of Dental Research, 1991, 70:312.

McCauley LK, Rosol TJ, Capen CC. Characterization of parathyroid hormone-related protein receptors on HTLV-1-infected lymphocytes. Abstracts of the International and American Associations for Dental Research, Acapulco, Mexico, April, 1991 and published in the Journal of Dental Research, 1991, 70:534.

Rosol TJ, Merryman JI, **McCauley LK**, Capen CC. Transforming growth factor- α effects on parathyroid hormone (PTH) and parathyroid hormone-related protein (PTHrP)-mediated adenylate cyclase stimulation and bone resorption *in vitro*. In: Abstracts of the 8th Workshop on Vitamin D, Paris, France, July, 1991 and Published in: Vitamin D - 1991: Molecular, Cellular & Clinical Endocrinology, Walter de Gruyter, Berlin/New York, 1991.

Merryman JI, Rosol TJ, **McCauley LK**, Werkmeister JW, Capen CC. Production of parathyroid hormone-related protein by two human squamous cell carcinoma cell lines *in vitro*. Abstracts of the American Society for Bone and Mineral Research, San Diego, CA, August, 1991 and published in the Journal of Bone and Mineral Research, 1991, 6:S232.

Werkmeister JR, Rosol TJ, Merryman JI, **McCauley LK**, Horton JE, Capen CC. Regulation of parathyroid hormone-related protein in normal human keratinocytes *in vitro*. Abstracts of the American Society for Bone and Mineral Research, San Diego, CA, August, 1991 and published in the Journal of Bone and Mineral Research, 1991, 6:S230.

McCauley LK, Rosol TJ, Lairmore MD, Merryman JI, Capen CC. Expression of parathyroid hormone-related protein in human T cell leukemia virus type-I (HTLV-I) infected lymphocytes. Abstracts of the American Society for Bone and Mineral Research, San Diego, CA, August, 1991 and published in the Journal of Bone and Mineral Research, 1991, 6:S226.

Werkmeister JR, Rosol TJ, Merryman JI, **McCauley LK**, Horton JE, Capen CC. Regulation of parathyroid hormone-related protein (PTHrP) in normal human keratinocytes. Abstracts of the American Association for Dental Research, Boston, MA, March 1992 and published in Journal of Dental Research, 1992, 71:199.

McCauley LK, Rosol TJ, Lairmore M, Merryman JI, Capen CC. Modulation of parathyroid hormone-related protein mRNA expression in T-lymphocytes. Abstracts of the American Association for Dental Research, Boston, MA, March 1992 and published in Journal of Dental Research, 1992, 71:212.

Merryman JI, Werkmeister JR, Rosol TJ, **McCauley LK**, Suter MM, Capen CC. Parathyroid hormone-related protein production and receptor expression by normal and malignant keratinocytes *in vitro*. Abstracts of the 81st Annual Mtg of U.S. and Canadian Academy of Pathology, March, 1992 and published in Laboratory Investigation, 1992.

McCauley LK, Rosol TJ, Lairmore M, Merryman JI, Capen CC. Polymerase chain reaction amplification of parathyroid hormone-related protein cDNA from high and low HTLV-I viral antigen-positive lymphocytes. Abstracts of the 81st Annual Mtg of U.S. and Canadian Academy of Pathology, March, 1992 and published in Laboratory Investigation, 1992.

Nohutcu RM, Rosol TJ, **McCauley LK**, Capen CC. Alteration in intracellular calcium levels in periodontal ligament fibroblasts stimulated with hormones and cytokines. Abstracts of the International Conference for Calcium Regulating Hormones, Florence, Italy, April 1992.

Werkmeister JR, Merryman JI, Rosol TJ, **McCauley LK**, Capen CC. Parathyroid hormone-related protein production and receptor expression by normal and malignant keratinocytes *in vitro*. Abstracts of the International Conference for Calcium Regulating Hormones, Florence, Italy, April 1992.

McCauley LK, Rosol TJ, Capen CC. Effects of cyclosporin A on osteoblast-like cells (ROS 17/2.8) *in vitro*. Abstracts of the International Conference for Calcium Regulating Hormones, Florence, Italy, April 1992.

McCauley LK, Rosol TJ, Capen CC. Characterization of cyclosporin A effects on osteoblasts. Abstracts of The American Academy of Periodontology Research Forum Orlando, Florida, November 1992.

McCauley LK, Beecher C, Melton M, Werkmeister J. TGF β 1 regulates PTH receptor mRNA and binding in osteoblasts. Abstracts of the International and American Associations for Dental Research, Chicago, Illinois, March 1993 and published in Journal of Dental Research, 72:357.

McCauley LK, Melton ME, Beecher C, Werkmeister JR, Abou-Samra AB, Segre GV, Jüppner H. TGF β 1 increases expression and binding of PTH/PTHrP receptors on rat osteosarcoma (ROS 17/28) cells. The XXIII European Symposium on Calcified Tissues. Heidelberg, Germany, April 1993 and published in Calcified Tissue International, 52:S15.

McCauley LK, Beecher CA, Melton ME, Rosol TJ. TGF β 1 upregulates PTH receptor mRNA and binding but inhibits PTH-stimulated bone resorption *in vitro*. Clinical Disorders of Bone and Mineral Metabolism: Fifth International Symposium, Detroit, Michigan, May 1993.

McCauley LK, Beecher CA, Melton ME, Werkmeister JR, Jüppner H, Abou-Samra AB, Segre GV, Rosol TJ. Regulation of the parathyroid hormone (PTH) receptor by transforming growth factor- β 1. Abstracts of the American Society for Bone and Mineral Research, Tampa, Florida, September, 1993 and published in the Journal of Bone and Mineral Research, 8: S181, 1993.

Nohutcu RM, **McCauley LK**, Somerman MJ. Mineralization of human periodontal ligament cells treated with dexamethasone. Abstracts of the International and American Associations for Dental Research, Seattle, Washington, March 1994 and published in Journal of Dental Research, 73:148.

Rosol TJ, Okada H, Schanbacher FL, **McCauley LK**, Weckmann MT, Capen CC. PTHrP secretion by bovine mammary cells *in vitro*. Abstracts of the American College of Veterinary Pathologists, December 1994.

Rosol TJ, Grone A, **McCauley LK**, Steinmeyer C, DeWille JR, Capen CC. Canine PTHrP: cDNA isolation and predicted amino acid sequence. Abstracts of the American College of Veterinary Pathologists, December 1994.

Rosol TJ, Okada H, Schanbacher FL, **McCauley LK**, Weckman MT, Capen CC. Parathyroid hormone-related protein production *in vitro* by mammary cells from lactating cows. Abstracts of the American Society for Bone and Mineral Research, Kansas City, Missouri, September 1994 and published in the Journal of Bone and Mineral Research, 9:S414, 1994.

Nohutcu RM, **McCauley LK**, Somerman MJ. Osteoblastic characteristics of human periodontal ligament cells: effects of dexamethasone. Abstracts of the American Society for Bone and Mineral Research, Kansas City, Missouri, September 1994 and published in the Journal of Bone and Mineral Research, 9:S238, 1994.

McCauley LK, Beecher CA, Koh AJ, Cui Y, Franceschi RT. Steady state levels of PTH/PTHrP receptor mRNA in MC3T3-E1 cells: Effects of differentiation and transforming growth factor - β 1 (TGF β 1). Abstracts of the American Society for Bone and Mineral Research, Kansas City, Missouri, September 1994 and published in the Journal of Bone and Mineral Research, 9:S411, 1994.

McCauley LK, Koh A, Beecher C, Cui Y, Decker J, Franceschi RT. Differentiation dependent effects of transforming growth factor β (TGF β) on osteoblastic cells. Abstracts of the International Society for Bone and Mineral Research, Melbourne, Australia, February 1995 and published in Bone, 16:219S, 1995.

Rosol TJ, Steinmeyer CL, Grone A, **McCauley LK**, DeWille JR, Capen CC. Nucleotide sequence of parathyroid hormone-related peptide expressed by a canine adenocarcinoma (CAC-8). Abstracts of the International Society for Bone and Mineral Research, Melbourne, Australia, February 1995 and published in Bone, 16:124S, 1995.

McCauley LK, Koh AJ, Beecher CA, Rosol TJ. Effects of TGF β 1 on PTH/PTHrP receptor mRNA in osteoblastic cells. Abstracts of the American Association for Dental Research, San Antonio, TX, March 1995 and published in the Journal of Dental Research, 74S1:171, 1995.

McCauley LK, Koh AJ, Beecher CA. TGF β 1 upregulates transcription of the PTH/PTHrP receptor in ROS 17/2.8 osteosarcoma cells. Abstracts of the Regional Symposium on Skeletal Biology and Metabolic Bone Disease, The University of Western Ontario, London, Ontario, Canada, April, 1995.

McCauley LK, Koh AJ, Coats C, Franceschi RT, Rosol TJ. PTHrP and the PTH/PTHrP receptor are temporally expressed during osteoblast differentiation. Abstracts of the American Society for Bone and Mineral Research, Baltimore, MD, September 1995 and published in the Journal of Bone and Mineral Research, 10:S386, 1995.

Moavenian N, Koh AJ, **McCauley LK**. The role of parathyroid hormone-related protein in the normal differentiation of osteoblasts. Abstracts of the American Association for Dental Research, San Francisco, CA, March 1996 and published in the Journal of Dental Research, 75S1:278, 1996.

The above abstract was selected as a finalist in the Caulk/Dentsply Student Research Competition at the 1996 American Association for Dental Research meeting.

McCauley LK, Koh AJ, Beecher CA, Cui Y, Rosol TJ, Franceschi RT. Regulation of the PTH/PTHrP receptor during osteoblast differentiation. Abstracts of the American Association for Dental Research, San Francisco, CA, March 1996 and published in the Journal of Dental Research, 75S1:370, 1996.

Lee CT, Wojno K, Oesterling JE, Singleton T, **McCauley L**, Lehr J, Montie JE, Pienta K. Expression of parathyroid hormone-like protein in prostate cancer and prostatic intraepithelial neoplasia. Abstracts of the American Association for Cancer Research, Washington, D.C., April 1996.

The above abstract was selected as a recipient of a Travel Award for the AACR meeting, and also won first place in the Michigan Urology Society Resident's competition.

Groene A, Weckman MT, **McCauley LK**, Capen CC, and Rosol TJ. Humoral hypercalcemia of malignancy and parathyroid hormone-related protein receptor expression in nude mice with the canine adenocarcinoma (CAC-8). Abstracts of the American Society for Bone and Mineral Research, Seattle, WA, September 1996 and published in the Journal of Bone and Mineral Research, 11:S308, 1996.

Donahue HJ, Li Z, Zhou Z, **McCauley LK**. Age-related decreases in stimulatory G-protein coupled adenylate cyclase activity in osteoblastic cells. Abstracts of the American Society for Bone and Mineral Research, Seattle, WA, September 1996 and published in the Journal of Bone and Mineral Research, 11:S384, 1996.

Koh AJ, Beecher CA, Rosol TJ, **McCauley LK**. Parathyroid hormone and parathyroid hormone-related protein analogs: Effects on *c-fos* expression and bone formation *in vitro*. Abstracts of the American Society for Bone and Mineral Research, Seattle, WA, September 1996 and published in the Journal of Bone and Mineral Research, 11:S386, 1996.

Weckmann MT, Groene A, **McCauley LK**, Capen CC, Rosol TJ. Regulation of parathyroid hormone-related protein mRNA expression in normal and neoplastic human keratinocytes. Abstracts of the American Society for Bone and Mineral Research, Seattle, WA, September 1996 and published in the Journal of Bone and Mineral Research, 11:S410, 1996.

McCauley LK, Dougherty K, Patel S, Koh AJ, Lehr J, Wojno K, Rosol TJ, Pienta KJ. Parathyroid hormone-related protein (PTHrP): A mediator of osteoblastic lesions in prostate cancer metastasis? Abstracts of the 7th Prouts Neck Meeting on Prostate Cancer, Black Point Inn, Prouts Neck, ME, October 1996.

Dougherty KM, Blomme E, Koh AJ, Pienta K, Rosol TJ, **McCauley LK**. The role of parathyroid hormone-related protein (PTHrP) in prostate cancer. Abstracts of the American Society for Bone and Mineral Research, Cincinnati, OH, September, 1997, and published in Journal of Bone and Mineral Research 12:S398

Hullinger TG, DeJoode ML, **McCauley LK**, Somerman MJ. The role of bone matrix in prostate cancer metastasis. Abstracts of the American Society for Bone and Mineral Research, Cincinnati, OH, September, 1997, and published in Journal of Bone and Mineral Research 12:S299

Koh AJ, Beecher CA, **McCauley LK**. Anabolic mechanisms of PTH action: The role of *c-fos* and the PTH-1 receptor *in vitro*. Abstracts of the American Society for Bone and Mineral Research, Cincinnati, OH, September, 1997, and published in Journal of Bone and Mineral Research, 12:S315

Ouyang HJ, **McCauley LK**, D'Errico JA, Somerman MJ. Effects of parathyroid hormones on cementoblasts/periodontal ligament cells, *in vitro*. Abstracts of the American Association for Dental Research, Minneapolis, MN, March 1998 and published in the Journal of Dental Research.

Koh AJ, **McCauley LK**. Effects of altering the cAMP pathway on osteoblast differentiation and mineralization *in vitro*. Abstracts of the International Association for Dental Research, Nice, France, June, 1998 and published in the Journal of Dental Research 77:B903

Blomme EAG, Dougherty KM, Pienta KJ, Capen CC, Rosol TJ, **McCauley LK**. Skeletal metastasis of prostate adenocarcinoma in rats: morphometric analysis and role of parathyroid hormone-related protein. Abstracts of the American Society for Bone and Mineral Research, San Francisco, CA, December, 1998, and published in Journal of Bone and Mineral Research, 23:S578.

Asadi F, Kouznetsova T, Dougherty K, **McCauley LK**, Kukreja S. Effect of parathyroid hormone-related protein on cell survival in prostate cancer cells. Abstracts of the American Society for Bone and Mineral Research, San Francisco, CA, December, 1998, and published in Journal of Bone and Mineral Research, 23:S251.

Concus AP, Carey TE, **McCauley LK**. Is parathyroid hormone-related peptide an oncogene product? Abstracts of the Annual Meeting of the American Academy of Otolaryngology-Head and Neck Surgery, San Antonio, Texas, 1998.

Concus AP, Carey TE, **McCauley LK**. Parathyroid hormone-related peptide is associated with squamous carcinoma progression. Head & Neck 1998; 20(5):451.

Ouyang HJ, Berry JE, **McCauley LK**, D'Errico JA, Strayhorn CL, Windel JJ, Somerman MJ. Parathyroid hormone-related protein regulates extracellular matrix gene expression by cementoblasts, *in vitro*. Abstracts of the American Society for Bone and Mineral Research, San Francisco, CA, December, 1998, and published in Journal of Bone and Mineral Research, 13:S358.

Dougherty KM, Blomme EAG, Koh AJ, Henderson JE, Pienta KJ, Rosol TJ, **McCauley LK**. PTHrP as a regulator of growth and apoptosis in prostate carcinoma. Abstracts of the American Society for Bone and Mineral Research (oral presentation) St. Louis, MO, September, 1999, and published in Journal of Bone and Mineral Research 14:S154.

Dougherty KM, Koh AJ, Henderson JE, Richard V, Rosol TJ, **McCauley LK**. Parathyroid hormone-related protein as a regulatory factor in prostate carcinoma. International Symposium on Bone Metastases (oral presentation), Montreal, Canada, October 16, 1999.

Koh-Paige AJ, McCabe LR, Demiralp B, **McCauley LK**. Downstream mediators of PTH action in bone: Role of *c-fos* and AP-1 family members. Endocrine Society Meeting, Toronto, Canada, June 2000.

Ouyang H, Berry JE, Franceschi RT, **McCauley LK**, Wang D, Somerman MJ. Parathyroid hormone-related protein downregulates bone sialoprotein gene expression in cementoblasts: Role of the protein kinase A pathway. Abstracts of the American Society for Bone and Mineral Research, Toronto Canada, September, 2000 and published in the Journal of Bone and Mineral Research 15:S381.

Chen H, Demiralp B, Koh AJ, Silve C, **McCauley LK**. The PTH-1 Receptor as a Mediator of Proliferation and Differentiation in Mesenchymal Cells. Abstracts of the American Society for Bone and Mineral Research, Toronto Canada, September, 2000 and published in the Journal of Bone and Mineral Research 15:S273.

Demiralp B, Koh AJ, McCabe L, **McCauley LK**. Parathyroid hormone effects in bone: Dependence of *c-fos* and AP-1 for osteoblast proliferation and gene expression. Abstracts of the American Society for Bone and Mineral Research, Toronto Canada, September, 2000 and published in the Journal of Bone and Mineral Research 15:S445.

Demiralp B, Chen H, Koh AJ, Keller ET, **McCauley LK**. Anabolic effects of PTH in bone are dependent on *c-fos*. Accepted Abstract of the American Association for Dental Research, Chicago, Illinois, March, 2001.

The above abstract was selected as a Hatton award finalist by the American Association of Dental Research.

Taichman RS, Chang S, **McCauley LK**, Taichman NS. The role of SDF-1/CXCR4 in prostate cancer bone metastases. Abstracts of the American Association for Dental Research, Chicago, Illinois, March, 2001.

Berry JE, Hakki SS, Zhao M, **McCauley LK**, Somerman MJ. Characterization of murine dental follicle cells. Abstracts of the American Association for Dental Research, Chicago, Illinois, March, 2001.

Gopalakrishnan R, Ouyang HJ, Somerman MJ, **McCauley LK**, Franceschi RT. PTH-dependent inhibition of mineralization in osteoblasts is mediated by MGP. Abstracts of the American Association for Dental Research, Chicago, Illinois, March, 2001.

The above abstract was awarded first place in the post-doctoral Hatton award competition of the American Association of Dental Research

Taichman RS, Wiedemer BA, **McCauley LK**. Expression and Utilization of SDF-1/CXCR4 in Prostate Cancer Metastases. Abstracts of the American Society for Bone and Mineral Research, 2001.

Demiralp B, Chen H, Koh AJ, Chen C, Dai J, Keller ET, **McCauley LK**. The Protooncogene *c-fos* is Critical for Anabolic Effects of Parathyroid Hormone in Bone. Abstracts of the American Society for Bone and Mineral Research, 2001 and published in the Journal of Bone and Mineral Research 16:S158.

The above abstract was selected for an ASBMR Young Investigator Award, 2001.

Zhao M, Berry JE, Koh AJ, **McCauley LK**, Foster BL, Viswanathan HL, Somerman MJ. Differentiation and Regulation of Dental Follicle Cells by Specific Factors. Abstracts of the American Society for Bone and Mineral Research, 2001 and published in the Journal of Bone and Mineral Research 16:S375.

Schneider A, Chen H, Koh AJ, Wang C, **McCauley LK**. PTHrP Prevents Osteoblast-like Cell Apoptosis Through the cAMP/PKA and AP-1 Signaling Pathway. Abstracts of the American Society for Bone and Mineral Research, 2001 and published in the Journal of Bone and Mineral Research 16:S375.

Gopalakrishnan R, Chan MT, Ouyang HJ, Somerman MJ, **McCauley LK**, Franceschi RT. Evaluating the role of bone ECM proteins in PTH-dependent inhibition of mineralization in MC3T3-E1 cells: Evidence for involvement of MGP. Abstracts of the American Society for Bone and Mineral Research, Phoenix, AZ, 2001, published in Journal of Bone and Mineral Research 16:S426.

Schneider A, Taboas JM, **McCauley LK**, Krebsbach PH. Systemic delivery of parathyroid hormone promotes catabolic and anabolic responses in tissue-engineered bone. Abstracts of the American Society for Bone and Mineral Research, 2002 and published in the Journal of Bone and Mineral Research.

Kalikin LM, Schneider A, Griffin L, Rehemtulla A, **McCauley LK**, Pienta KJ. Intracardiac injection of luciferase-expressing PC-3 generates a non-invasive *in vivo* model of metastatic prostate cancer progression in immunocompromised mice. Abstracts of the American Association for Cancer Research, Toronto, Ontario, Canada, April 2003 (submitted; meeting postponed to June 2003).

Dai J, Zhang J, Koh A, **McCauley LK**, Keller ET. Bone morphogenetic proteins (BMPs) and parathyroid hormone-related protein (PTHrP) are bone microenvironment factors that modulate prostate cancer (CaP)-induced bone remodeling through regulation of vascular endothelial growth factor (VEGF). Abstracts of the American Association for Cancer Research, Toronto, Ontario, Canada, April 2003 (submitted; meeting postponed to June 2003).

Chen C, Koh AJ, Zhang J, Keller ET, D'Silva NJ, **McCauley LK**. Impact of the MAPK Pathway on PTH & PTHrP Actions in Osteoblasts. Abstracts of the FASEB Summer Research Conference. Snowmass, CO, July 2003.

Nieman MT, Pienta K, Warnock M, Kalikin L, **McCauley LK**, Schmaier AH. Thrombostatin™ Modifies Prostate Cancer Cell Biology. Abstracts of the FASEB Summer Research Conference. August 2003.

Schneider A, Kalikin LM, Mattos AC, Krebsbach PH, Pienta KJ and **McCauley LK**, A Bone Marrow Stromal Cell Ossicle Model Provides Insight into the Pathophysiology of Prostate Cancer Metastasis. Abstracts of the American Society for Bone and Mineral Research, Minneapolis, MN, Sept. 2003, published in the Journal of Bone and Mineral Research, SA064:S114

Chen J, Kousteni, S, Han L, Peng H, **McCauley LK**, Manolagas SC. Unequivocal demonstration of estrogen signaling through the androgen receptor in osteoblasts and osteoclasts. Abstracts of the American Society for Bone and Mineral Research, Minneapolis, MN, Sept. 2003 and published in the Journal of Bone and Mineral Research. 1063: S18.

Osman N, Sun YX, Koh-Paige AJ, Schneider A, Cook K, Wang J, **McCauley LK**, Taichman RS. Antibody to CXCR4 blocks prostate cancer metastasis to osseous sites *in vivo*. Abstracts of the American Society for Bone and Mineral Research, Minneapolis, MN, Sept. 2003 and published in the Journal of Bone and Mineral Research. 1136:S36.

Aguirre JI, Plotkin LI, Strotman B, **McCauley LK**, Gubrig I, Kousteni S, Manolagas SC, Bellido T. The anti-apoptotic effects of mechanical stimulation in osteoblasts/osteocytes are transduced by the estrogen receptor (ER): A novel ligand-independent function of the ER. Abstracts of the American Society for Bone and Mineral Research, Minneapolis, MN, Sept. 2003 and published in the Journal of Bone and Mineral Research, F165:S71.

Chen C, Koh AJ, Zhang J, Keller ET, D'Silva NJ, **McCauley LK**. Impact of the MAPK pathway on PTHrP actions in Osteoblasts. Abstracts of the American Society for Bone and Mineral Research, Minneapolis, MN, Sept. 2003 and published in the Journal of Bone and Mineral Research, SA230:S142.

Wei G, Pettway GJ, **McCauley LK**, Ma PX. The release profiles and bioactivity of parathyroid hormone from poly(lactic-co-glycolic acid) Microspheres. Abstracts of the American Society for Bone and Mineral Research, Minneapolis, MN, Sept. 2003 and published in the Journal of Bone and Mineral Research, SA384:S164.

Zhang J, Liu M, Schneider A, Dai J, Lu Y, Kitazawa R, Kitazawa S, **McCauley LK**, Keller ET. *In vivo* imaging of TGF- β -induced RANK ligand transcriptional activation in prostate cancer. Abstracts of the American Society for Bone and Mineral Research, Minneapolis, MN, Sept. 2003 and published in the Journal of Bone and Mineral Research, SA070:S115.

Bobaïd F, Berry JE, Somerman MJ, **McCauley LK**. The role of PTHrP in regulation of OPG/RANKL in cementoblasts. Abstracts of the American Society for Bone and Mineral Research, Minneapolis, MN, Sept. 2003 and published in the Journal of Bone and Mineral Research, SU228:S234.

Dai J, Zhang J, Koh A, **McCauley LK**, Keller ET. Bone morphogenetic proteins (BMPs) and parathyroid hormone-related protein (PTHrP) are bone microenvironment factors that modulate prostate cancer (CaP)-induced bone remodeling through regulation of vascular endothelial growth factor (VEGF). Abstracts of the American Society for Bone and Mineral Research, Minneapolis, MN, Sept. 2003 and published in the Journal of Bone and Mineral Research, M071:S312.

Kalikin LM, Schneider A, Thakur MA, Griffin LB, Rehemtulla A, **McCauley LK**, Pienta KJ. *In vivo* visualization and quantitation of metastatic bone disease progression in SCID mice. Abstracts of the American Society for Bone and Mineral Research, Minneapolis, MN, Sept. 2003 and published in the Journal of Bone and Mineral Research, M073:S313.

Pettway GJ, Koh AJ, Schneider A, Widjaja E, Morris M, **McCauley LK**. Anabolic actions of PTH: Role of early events in mineralization in a novel regeneration model. Abstracts of the American Society for Bone and Mineral Research, Minneapolis, MN, Sept. 2003 and published in the Journal of Bone and Mineral Research, M449:S402.

Koh AJ, Demiralp B, Ealba EL, Mattos A, **McCauley LK**. Elucidation of Osteoblastic versus Bone Marrow Cellular Compartments in the Anabolic Actions of PTH. Abstracts of the American Society for Bone and Mineral Research, Seattle, WA, Oct. 2004 and published in the Journal of Bone and Mineral Research, 1062:S17.

Jung Y, Wang J, Schneider A, Sun Y, Koh-Paige AJ, Osman NI, **McCauley LK**, Taichman RS. Regulation of SDF-1 (CXCL12) Production by Osteoblasts in the hEmatopoietic Microenvironment-A Mechanism for Stem Cell Homing. Abstracts of the American Society for Bone and Mineral Research, Seattle, WA, Oct. 2004 and published in the Journal of Bone and Mineral Research, M189:S389.

Datta NS, Chen C, Berry JE, **McCauley LK**. PTHrP Control of the Cell Cycle Machinery in Differentiating Osteoblasts. Abstracts of the American Society for Bone and Mineral Research, Seattle, WA, Oct. 2004 and published in the Journal of Bone and Mineral Research, M223:S398.

Berry JE, Ealba EL, McCabe LR, **McCauley LK**. PTHrP Mediation of AP-1 Signaling in Mesenchymal (Cementoblast) Cells. Abstracts of the American Society for Bone and Mineral Research, Seattle, WA, Oct. 2004 and published in the Journal of Bone and Mineral Research, M239:S401.

Pettway GJ, Wei CL, **McCauley LK**. Temporal Dependence of PTH (1-34) for Anabolic Actions in an Osteoregeneration Model. Abstracts of the American Society for Bone and Mineral Research, Nashville, TN, Sept. 2005 and published in the Journal of Bone and Mineral Research, M487.

Datta NS, Chen C, **McCauley LK**. Transcriptional Activation of Cyclin D1 promoter by PTHrP Contributes to Cell Cycle Progression in Proliferating Osteoblasts. Abstracts of the American Society for Bone and Mineral Research, Nashville, TN, Sept. 2005 and published in the Journal of Bone and Mineral Research, SA195.

Berry JE, Ealba EL, Datta NS, Pettway GJ, Swanson E, Somerman MJ, **McCauley LK**. Jun B as a Key Mediator of PTHrP Actions on Cementoblasts. Abstracts of the American Society for Bone and Mineral Research, Nashville, TN, Sept. 2005 and published in the Journal of Bone and Mineral Research, M182.

Yamashita J, Chun YP, Datta NS, **McCauley LK**. The Evidence that *Bcl-2* is Dispensable for the Anabolic Action of PTH in Bone. Abstracts of the American Society for Bone and Mineral Research, Nashville, TN, Sept. 2005 and published in the Journal of Bone and Mineral Research, SA192:F192.

Liao J, Schneider A, Datta NS, Pienta KJ, McCauley LK. Prostate cancer and skeletal metastasis: Impact of the bone microenvironment and extracellular calcium. Abstracts of the European Calcified Tissue Society, Prague, Czech Republic, May 12, 2006.

Berry JE, Datta N, Pettwa GJ, **McCauley LK**. PTHrP actions via JunB: New gene targets in cementoblasts. Abstracts of the International Association for Dental Research, Brisbane, Australia, June 2006.

Datta NS, Pettway GJ, Chen C, Koh AJ, **McCauley LK**. PTH and PTHrP Targets Cyclin D1 and Induces Osteoblastic Cell Proliferation. Abstracts of the American Society for Bone and Mineral Research, Philadelphia, PA, Sept. 2006 and published in the Journal of Bone and Mineral Research, SA178:F178.

Pettway GJ, Meganck JA, Wei CL, Goldstein SA, **McCauley LK**. Anabolic Actions of PTH in Bone: Role of Osteoblast Proliferation, Differentiation, and Combinatorial Treatment with Bisphosphonates. Abstracts of the American Society for Bone and Mineral Research, Philadelphia, PA, Sept. 2006 and published in the Journal of Bone and Mineral Research, SA393:F393.

Koh-Paige AJ, VanPutten M, Taichman RS, **McCauley LK**. Anabolic Actions of PTH:Role of Hematopoietic Cells in the Bone Marrow. Abstracts of the American Society for Bone and Mineral Research, Philadelphia, PA, Sept. 2006 and published in the Journal of Bone and Mineral Research, SA452.

Berry JE, Pettway GJ, Datta NS, Yamashita J, Jin T, **McCauley LK**. Downstream Actions of PTHrP Mediated by JunB:Gene Regulation of the PTH-1 Receptor, Ephrin B1 and Vascular Cell Adhesion Molecule (VCAM-1) In Vitro and In Vivo. Abstracts of the American Society for Bone and Mineral Research, Philadelphia, PA, Sept. 2006 and published in the Journal of Bone and Mineral Research, M455.

Yamashita J, Datta NS, Chun Y, Yang D, Carey AA, Kreider JM, Goldstein SA, **McCauley LK**. Role of *Bcl-2* in osteoclasts and in the anabolic actions of PTH in bone. Abstracts of the International Bone and Mineral Society and published in Bone 40:118, 2007.

Yamashita J, Yang D, Yamashita K, Keller ET, **McCauley LK**. The Role of Caspase-3 in the Anabolic Actions of PTH in Bone. 2007 Abstracts of the Twenty-Ninth Annual Meeting of the American Society for Bone and Mineral Research, Honolulu, Hawaii, Sept 2007. J Bone Miner Res 22:S53, 2007.

Datta NS, Kolailat R, Pettway G, Berry J, **McCauley LK**. PTHrP Induces Mitogen-Activated Protein Kinase Phosphatase-1 in Differentiated Bone Marrow Stromal Cells, Mouse Osteoblast and Cementoblast Cell Lines. 2007 Abstracts of the Twenty-Ninth Annual Meeting of the American Society for Bone and Mineral Research, Honolulu, Hawaii, Sept 2007. J Bone Miner Res 22:S137, 2007.

Yang D, Liu F, **McCauley LK**, Yamashita J. The Role of Bcl2 in Osteoclastogenesis Ex Vivo. 2007 Abstracts of the Twenty-Ninth Annual Meeting of the American Society for Bone and Mineral Research, Honolulu, Hawaii, Sept. 2007. J Bone Miner Res 22:S383, 2007.

McCauley LK, Li X. Distinguishing features of the oral cavity and its predisposition to osteonecrosis. 2007. Abstracts of the 37th International Sun Valley Workshop, August 5, 2007. J Musculoskelet Neuronal Interact 7(4):356-357, 2007.

Koh AJ, Wang T, Taichman R, **McCauley LK**, Hematopoietic Cells in the Bone Marrow Augment Anabolic Actions PTH. ASBMR 30th Annual Meeting, Sept 2008.

Li X, Liao J, Koh A, Pienta KJ, **McCauley LK**. Drugs Which Inhibit Osteoclast Function Suppress Tumor Growth and Alter Hematopoietic Cell Populations in Bone. ASBMR 30th Annual Meeting, Sept 2008.

Novince CM, Koh AJ, Brown HA, Hu JC, Rosol TJ, **McCauley LK**, Toribio RE. Parathyroid Hormone Related Protein (PTHrP) Nuclear Localization Sequence and C-terminus Regulate Craniofacial Development. ASBMR 30th Annual Meeting, Sept 2008.

Pirih F, Koh A, Berry J, Kamarajan P, Kapila Y, **McCauley LK**. The Impact of PTH on Cells of the hematopoietic lineage: *in vivo* and *in vitro* studies. ASBMR 30th Annual Meeting, Sept 2008.

Toribio RE, Brown HA, Novince CM, Gooding LM, Shu ST, Werbeck JL, **McCauley LK**, Foley J, Rosol TJ. Skeletal Dymorphology of Mice Lacking the Mid-Region, Nuclear Localization Sequence and C-Terminus of Parathyroid Hormone-Related Protein. Abstracts of the ASBMR 30th Annual Meeting, Journal of Bone and Mineral Research, 2008.

Roberto MF, Cole JH, Novince C, Toribio R, **McCauley LK**, Morris MD. Raman spectroscopic assessment of the effects of genetic abnormalities on bone composition in a mouse model. Abstracts of the Federation of Analytical Chemistry and Spectroscopy Societies (FACSS), 2008.

Pirih F, Koh A, Michalski M, **McCauley LK**. Parathyroid hormone mediates hematopoietic cell maintenance through interleukin-6. AADR Annual Meeting, April 2009.

Li X, Koh Amy, **McCauley LK**. 2009 Bone Marrow Calcium Levels Correlate with Bone Marrow Hemopoietic Progenitor Cells. J Bone Miner Res 24 (Suppl1). Available at <http://www.asbmr.org/Meetings/AnnualMeeting/AbstractDetail.aspx>

The above abstract was selected for an ASBMR Young Investigator Award, 2009

Novince C, Koh A, Marchesan J, **McCauley LK**. 2009 Proteoglycan-4: A Novel Gene Regulating Parathyroid Hormone Actions in Bone Anabolism and Hematopoiesis. J Bone Miner Res 24 (Suppl 1). Available at <http://www.asbmr.org/Meetings/AnnualMeeting/AbstractDetail.aspx>

Pirih F, Michalski M, Koh A, Sorah K, Ross C, **McCauley LK**. 2009 PTH Increases Hematopoietic Progenitor Cells and Bone Mass in an IL-6 Dependent Manner. J Bone Miner Res 24 (Suppl 1). Available at <http://www.asbmr.org/Meetings/AnnualMeeting/AbstractDetail.aspx>

The above abstract was selected for an ASBMR Young Investigator Award, 2009

Novince C, Koh A, Michalski M, Marchesan J, Sinder B, Kozloff K, **McCauley LK**. 2010 Proteoglycan-4, a novel immunomodulator of parathyroid hormone (PTH) anabolic actions. American Association for Dental Research (AADR) Annual Meeting, March 2010.

The above abstract was awarded first place in the AADR Hatton Senior competition

Park SI, Berry JE, Koh AJ, Wang J, Taichman RS, **McCauley LK**. Novel insight into mechanisms of parathyroid hormone-related protein (PTHrP) action in prostate cancer growth and skeletal metastasis: Altered anoikis and angiogenesis. American Association for Cancer Research (AACR) Annual Meeting, April 2010.

Bashutski J, Eber R, Kinney J, Benavides E, Maitra S, Braun T, Giannobile W, **McCauley LK**. Teriparatide (Parathyroid Hormone 1-34) Promotes Osseous Regeneration in the Oral Cavity. ASBMR 32nd Annual Meeting, October 2010.

The above abstract was selected for an ASBMR Young Investigator Award, 2010

Novince C, Michalski M, Koh A, Sinder B, Berry J, Kozloff, K, **McCauley LK**. Proteoglycon-4: A Dynamic Regulator of PTH Actions in Skeletal Anabolism and Arthritic Joints. ASBMR 32nd Annual Meeting, October 2010.

The above abstract was selected for a ASBMR young investigator travel Award, 2010

Wang T, Koh A, Novince C, Taichman R, Rios H, **McCauley LK**, Li X. Irradiation Primes the Skeleton for PTH Anabolic Actions. ASBMR 32nd Annual Meeting, October 2010.

Berry J, Sinder B, Kozloff K, Guldborg R, Park SI, Li X, Soki F, **McCauley LK**. Assessment of Alterations in Internal Bone Vascularity – a three dimensional approach. ASBMR 32nd Annual Meeting, October 2010.

Li X, Sinder B, Berry J, Qian X, Soki F, **McCauley LK**. MicroCT Analysis on Mouse Bone Vasculature Treated with Bisphosphonates. Fourth New York Skeletal Biology and Medicine Meeting, April 2011.

Bashutski JD, Eber RM, Kinney JS, Benavides E, Maitra S, Braun TM, Giannobile WV, **McCauley LK**. The impact of vitamin D status on osseous healing outcomes after oral surgery. Endocrine Society Annual Meeting, June 2011.

Cho SW, Pirih FQ, Michalski MN, Eber M, Oh SJ, Wronski TJ, **McCauley LK**. Interleukin-6 receptor signaling plays a role in anabolic actions of PTH in bone. Endocrine Society Annual Meeting, June 2011.

The above abstract was selected for an Endocrine Society Presidential Poster Award

Daley E, Koh AJ, **McCauley LK**, Goldstein S. Whitetail deer antlerogenic progenitor cells show robust mineralization in a murine ossicle growth model. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2011.

Cho SW, Pirih F, Michalski M, Eber M, Oh SJ, Wronski T, **McCauley LK**. Interleukin-6 receptor signaling links hematopoietic and anabolic actions of PTH in bone. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2011.

The above abstract was selected for an ASBMR young investigator travel award.

Novince C, Michalski M, Entezami P, Koh A, Eber M, Rosol TJ, Wronski T, Kozloff K, **McCauley LK**. Proteoglycan-4: A dynamic regulator of skeletogenesis and PTH skeletal anabolism. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2011.

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.

The above abstract was selected for an ASBMR young investigator award.

Koh AJ, Cho SW, Pettway G, **McCauley LK**. Induction of bone marrow apoptosis impacts PTH anabolic actions in bone. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2012.

Khan A, Morrison A, Hanley D, Felsenberg D, **McCauley L**, O'Ryan F, Reid I, Ruggiero S, Taguchi A, Tetradis S, Watts N, Brandi ML, Peters E, Guise T, Eastell R, Morin S, Masri B, Cooper C, Morgan S, Obermayer-Pietsch B, Langdahl B, Al Dabagh R, Davison KS, Compston J. International Consensus on Diagnosis and Management of Osteonecrosis of the Jaw. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2013.

Yamashita J, **McCauley L**, Kuroshima S. Parathyroid Hormone Rescues Impaired Tooth Extraction Healing Associated with Bisphosphonates. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2013.

McCauley L, Dalli J, Koh A, Chiang N, Serhan C. Pro-Resolving Mediators in the Bone Microenvironment Drive Macrophage Efferocytosis of Apoptotic Osteoblasts. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2013.

Soki F, Kim YW, Koh A, Entezami P, Cho SW, Sud S, Pienta K, **McCauley L**. The Role of Macrophage Efferocytosis in Prostate Cancer Skeletal Metastasis. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2013.

The above abstract was selected for an ASBMR young investigator award.

Jones J, Soki F, Roca H, Thiele S, Shiozawa Y, Wang Y, Moran T, Hofbauer L, Pienta K, **McCauley L**. Alternatively Activated Monocyte and Macrophage Efferocytosis Support Prostate Cancer Skeletal Metastasis. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2014.

Al-Dujaili S, Koh A, Dang M, Mi X, Chang W, Ma P, **McCauley L**. Osteoblast number is dependent and bone formation independent of osteoblast-specific CaSR and calcium availability. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2014.

Dang M, Koh A, **McCauley L**, Ma, P. Pulsatile delivery of parathyroid hormone from an implantable device promotes bone regeneration in vivo. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2014.

Michalski M, Koh A, Roca H, **McCauley L**. Alternative activation of macrophages by IL-10 promotes efferocytosis of osteoblasts. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2015.

Koh A, Michalski M, Sinder B, Rhee J, **McCauley L**. Etoposide directs apoptosis and myeloid driven cell clearance with net negative impacts on bone. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2015.

Sinder B, Koh A, Michalski M, Hofbauer L, Roca H, **McCauley L**. The impact of reducing osteal macrophages and their efferocytotic function on bone turnover and bone mass. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2015.

Roca H, Purica M, Weidner S, Koh A, Kuo R, Nör J, Shea L, **McCauley L**. Apoptotic Cell Clearance Drives CXCL5 Accelerates Inflammatory Cell Infiltration and Supports Prostate Cancer Tumor Growth in Bone. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2016.

Jin X, Dang M, Koh A, Ma P, **McCauley L**. Enhancing therapeutic potential of macrophages for bone regeneration: Effect of Ca²⁺ loaded poly-lactic acid (PLLA) microspheres. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2016.

Michalski M, Sinder B, Koh A, Roca H, **McCauley L**. MFG-E8 Mutant Mice Exhibit Reduced Bone Mass and Enhanced Anabolic Response to Parathyroid Hormone. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2016.

Sinder B, Do J, Koh A, Michalski MN, Aguirre J, Roca H, **McCauley LK**. The chemotherapeutic agent trabectedin negatively impacts osteal macrophages, bone formation, and bone healing. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2017.

Roca H, Jones J, Purica M, Weidner S, Koh A, Kuo R, Wilkinson J, Wang Y, Daignault-Newton, Pienta K, Morgan, T, Keller ET, Nor J, Shea L, **McCauley LK**. Efferocytosis of apoptotic cancer cells induces inflammation and accelerates the growth of surviving cancer cells in bone. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2017.

Michalski MN, Seydel A, Siismets E, Sinder B, Koh A, Atabai K, Aguirre J, Roca H, **McCauley LK**. MFG-E8 deficiency: A model of inflammaging associated bone loss robustly rescued by teriparatide. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2017.

Zweifler L, Koh A, Sinder B, Michalski M, Roca H, Mishina Y, **McCauley L**. Osteal Macrophage Regulation of the Plasminogen System in Bone. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2018.

Sinder B, Do J, Koh A, Roca H, **McCauley L**. The Chemotherapeutic Trabectedin Negatively Impacts Osteal Macrophages and Bone Healing. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2018.

Koh A, Do J, Roca H, **McCauley L**. Enhanced bone growth with lipoxinA4. Abstracts of the American Society for Bone and Mineral Research Annual Meeting, 2018.