

May 2018

CURRICULUM VITAE
BRYAN S. MICHALOWICZ

Education

	<u>Degree</u>	<u>Field</u>	<u>Year</u>
Case Western Reserve University (CWRU)	B.S.	Pre-Dentistry	1981
CWRU School of Dentistry	D.D.S.	Dentistry	1983
University of Minnesota School of Dentistry	M.S.	Periodontology	1988

Board Certification: Diplomate, American Board of Periodontology (1991, current through 2021)

Related Work Experience

Periodontist, Como Dental Specialty Center HealthPartners, St. Paul, Minnesota		2015 – present
Adjunct Professor Department of Developmental and Surgical Sciences University of Minnesota School of Dentistry		2015 - present
Member, Task Force on Design and Analysis Board of Directors, 2011-present		2003 - present
Professor (tenured) Department of Developmental and Surgical Sciences University of Minnesota School of Dentistry		2008 - 2014
Director, Division of Periodontology, University of Minnesota School of Dentistry		2013 - 2014
Director, UMN CTSI's Advanced Research Program (AHC summer pre-doctoral research program)		2011 - 2014
Member, American Dental Association's Council on Scientific Affairs		2010 – 2014
Private practice, Periodontics, Part-time, Minneapolis/St. Paul, MN		1987 - 2014
Director, Academic Health Center Pre-doctoral Summer Scholars Program in Clinical and Translational Research		2007 – 2008
Director, Minnesota Oral Health Clinical Research Center		2002 - 2014
Associate Professor (tenured) Department of Developmental and Surgical Sciences University of Minnesota School of Dentistry		1997 - 2008
Research Sabbatical, Molecular Genetic Epidemiology Section National Institute of Dental and Craniofacial Research, NIH		1999
Associate Member, Graduate School Faculty		

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University of Minnesota (Dentistry)	1992 - 2014
Member, Institute of Human Genetics University of Minnesota	1992 - 1999
Associate Member, Graduate School Faculty University of Minnesota (Clinical Research)	1999 – 2001, 2011
Assistant Professor Department of Preventive Sciences University of Minnesota School of Dentistry	1988 - 1997
Consultant Prudential Insurance Company Minneapolis, Minnesota	1988 - 1992
Clinical Instructor Department of Periodontology University of Minnesota School of Dentistry	1985 - 1988
Practice Practitioner (General Dentistry) Cleveland, Ohio	1983 - 1985

Honors and Awards

Holder, E. M. Schaffer Chair in Periodontal Research	2003 - 2014
UMN School of Dentistry Research Paper of the Year	2009, 2011, 2012, 2013
American Academy of Periodontology Clinical Research Award (for the year's outstanding paper with direct relevance to clinical practice)	2001, 2007
School of Dentistry Century Club Professor of the Year	2006
Invited Participant: Etiology and Pathogenesis World Workshop in Periodontics, American Academy of Periodontology	1996
Elected, Omicron Kappa Upsilon Honorary Dental Fraternity	1993
American Academy of Periodontology Balint Orban Award (for outstanding graduate student research)	1988
Case Western Reserve University Alumni Scholarship	1977 - 1981

Professional Organizations

American/International Associations of Dental Research	1988 - 2014
Minnesota Association of Periodontists (President, 2004)	1988 - 2007
American Board of Periodontology	1991 - present

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Omicron Kappa Upsilon, Beta Beta Chapter (President, 2003)	1993 - present
American / Minnesota Dental Associations	2000 - present
St. Paul District Dental Society	2000 - present
Society for Clinical Trials	2007 – 2010
American Academy of Periodontology	2009 – 2014
American Association of Public Health Dentists	2009 - 2010

Editorial Board

Journal of Clinical Periodontology (2008-2014)

Ad hoc reviewer:

- *Journal of Periodontology*
- *American Journal of Obstetrics and Gynecology*
- *Journal of Periodontal Research*
- *Journal of the American Dental Association*
- *Journal of Infection*
- *Journal of Sleep Research*
- *Journal of Women's Health*
- *Archivum Immunologiae et Therapiae Experimentalis*
- *European Journal of Oral Sciences*

Committee Service (2000-2014)

Steering Committees

Maternal Periodontitis and Infant Neurodevelopment Study Steering Committee

(Chair, 2005 – 2010)

Diabetes and Periodontal Therapy Trial (DPTT), Executive and Steering Committee member

(2009 – present)

Minnesota Oral Health Clinical Research Center Steering Committee (Chair, 2002 - present)

School of Dentistry (SOD) Strategic Planning Steering Committee (2004 - present)

Obstetrics and Periodontal Therapy Trial Steering Committee (Chair, 2002 – 2006)

School of Dentistry (SOD) or Academic Health Center (AHC) Committees

SOD Practice Plan Advisory Committee, 2013 – present

AHC Clinical and Translational Sciences Institute Multi-disciplinary Advisory Committee (2010 – present)

SOD Research Strategic Planning Committee (2010 – 2012)

AHC BIRCWH Seed Grant Review Committee (June 2009)

AHC Office of Clinical Research's Education Committee (2007 – 2009)

AHC Career Advancement Program for Clinical Research Scholars (Roadmap K12) Multi-disciplinary Advisory Committee (2005 – 2010)

▪ Subcommittee on Scholar Evaluation (2006 – 2010)

▪ Subcommittee on Funding Requests (2006 – 2010)

AHC Building Interdisciplinary Research Careers in Women's Health (BIRCWH) Internal Advisory Committee (2007 – 2011)

SOD Research Committee (2004 – 2014, *ex officio* voting member)

AHC Clinical Research Advisory Board (2004 – 2007)

AHC Clinical Enterprise Task Force (2005 - 2006)

AHC Clinical Research Task Force (2002 – 2004)

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SOD Promotion and Tenure Committee (2004 - 2005)
SOD Research Infrastructure Planning Grant Committee (2002)
AHC Faculty Development Grants Review Committee (2002)
SOD Educational Policy Committee (2000 – Spring 2003)
SOD Clinical Affairs Committee (2000 – Spring 2003)
SOD *ad hoc* Records Subcommittee (Chair, 2001)

SOD Search Committees

Chair, Department of Preventive Sciences (2002)
Tenure/Tenure-track faculty, Division of Pediatric Dentistry (2002)
Associate Dean for Academic Affairs (2004)
Tenure/Tenure-track faculty, Division of TMD and Orofacial Pain (2004)
Director, Oral and Maxillofacial Surgery training program (2005)
Director, Division of Pediatric Dentistry (2006)
Associate Dean for Research (2004 - 2007)
Tenure-track faculty, Division of Periodontology (2007 - 2008)
Director, Predoctoral clinic, Division of Periodontology (2011)
Tenure/Tenure-track faculty, Division of TMD and Orofacial Pain (2013)
Search Committee Chair, Tenure/tenure-track faculty and Director, Division of Periodontology (2013), search terminated by School

National Committees/Panels/Councils

NIH/NIDCR Special Emphasis Panel/Scientific Review Group, RFA-DE-04-009 (R21s) (6/2004)
NIH/NIDCR ZDE1 SK 62, 04-62, Review of R13 (7/2004, Chair)
NIH/NIDCR R21-PA-03-042 (10/2004)
NIH/NIDCR T32 RFA DE 05-008, Institutional Clinical Research Training Awards (6/2005)
NIH/NIDCR Review Panel for Intramural Clinical Research Protocols (6/2005)
NIH/NIDCR Special Emphasis Panel (SEP) ZDE 1 K(29), PAR-04-091, RO3 (12/2005)
NIH/NIDCR SEP ZDE1 RK 59, 5/2006, Dental Implant RFA
NIH/NIDCR, Review Panel, Data Analysis & Statistical Methodology RO3, ZDE1 PZ 72 (6/2006)
NIH/NIDCR SEP, ZDE1 MK (31), 03/09/2007 (RO3, R21)
NIH/NIDCR SEP ZDE1 PZ (38), 03/27/2007 (R21)
NIH/NIDCR Review Panel for PAR-06-246 and PAR-06-211, 02/05/08 (RO3, R21)
NIH/NIDCR Review Panel, Data Analysis & Statistical Methodology RO3, ZDE1VH(02), 10/22/08
NIH/NINR Review Panel, Contract review, ZNR1-TT-C1, 1/27/10
NIH/NIDCR: R03: Secondary data analyses ZDE1 JR(06), 10/29/10

Group Program Chair, Periodontal Therapy Section, International and American Associations of Dental Research, responsible for reviewing and selecting submitted abstracts and arranging program session (2007, 2008)

Co-Chair, PhenX Oral Health Working Group (2009). PhenX is a project led by RTI International and funded by the National Human Genome Research Institute (NHGRI) to contribute to the integration of genetics and epidemiologic research. Co-Chair: James Beck

Chair, Fundraising Campaign for the UMN Summer Research Fellowship Endowment (2009-2011). The goal of this campaign was to raise money for a quasi-endowment to support summer research fellowships for pre-doctoral dental students.

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Member, American Dental Association Council for Scientific Affairs (appointed to a 4-year term, Fall 2010)

Oral session co-chair, IADR/AADR meeting, San Diego, CA, March 2011

Oral session co-chair, AADR meeting, Charlotte, NC, March 2014

Funded Research Activities

- **Publicly-Sponsored Research**

Investigator, Periodontal diseases in twins (PI: Bruce Pihlstrom), NIH/NIDR Grant DE08158, 8/1/87 - 7/31/90 (\$216,123), 20% effort

Principal Investigator, Distribution of Bacteria in Human Gingival Plaque, in: NIH/NIDR-funded Center Grant #P30-DE0737-01-0727-5209-32, 9/1/90 - 8/31/92 (\$32,496 direct costs), 25% effort

Principal Investigator, Association Between Smoking and T Cell Proliferation in Periodontal Disease, in NIH/NIDR-funded Center Grant P30-DE0737 (PI: Bruce Pihlstrom) , 10/1/91 - 9/30/94 (\$30,997 direct costs), 10% effort

Principal Investigator, Periodontal Disease in Twins, NIH/NIDR Grant RO1 DE08158, 4/1/93 - 3/31/97 (\$308,730 total costs), 20% effort

Principal Investigator, Cellular Markers in Smokers with Periodontitis, in NIH/NIDR funded Center Grant DE09737 (PI: Bruce Pihlstrom), 12/1/95 - 11/30/97 (\$13,440 direct costs), 10% effort

Principal Investigator, Genetic Contributions to Risk Factors in Adult Periodontitis, in NIH/NIDR funded Center Grant DE09737 (PI: Bruce Pihlstrom), 8/1/97 - 7/31/99 (\$15,912 direct costs), 10% effort

Principal Investigator, Effects of Periodontal Therapy on Preterm Birth. NIH/NIDCR U01 DE014338, 9/30/02 – 8/31/06 (\$6,645,373 direct costs + \$2,495,795 administrative supplement), 35% effort

Principal Investigator, Effects of Maternal Periodontitis on Infant Neurodevelopment. NIH/NIDCR UO1 DE014338-S1 (second administrative supplement to above project), 12/01/05 -11/30/10 (\$2,257,208 direct costs), 25% effort

Co-investigator, Advisory Committee, A Multidisciplinary Scholar Development Program to Advance Clinical Research 1 K12 HD052187-01 (PI: Russell Luepker); 09/23/2005 - 08/31/2010; Total costs: Year 01 \$1,428,953; Year 02 \$1,541,215; Year 03 \$3,435,024; Year 04 \$3,639,600; Year 05 \$3,625,956, 5% effort

Consultant, Gene Mapping of Susceptibility to Periodontitis
NIH/NIDCR 1RO1DE016057 (PI: SR Diehl), 07/01/2004 – 06/30/2009, Direct costs \$1,250,000

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Consultant, Diabetes and Periodontics Trial Planning Grant
NIH/NIDCR 1R21DE017340 (PI: SP Engebretson) 09/01/2006 - 08/31/2007, Direct costs \$100,000

Investigator, (PI: R. Gopalakrishnan) The Association between Periodontitis and Bisphosphonate - Associated Osteonecrosis of the Jaw. Funded by the MN Oral Health Clinical Research Center, 02/15/07 - 02/14/09, Direct costs \$16,640.

Site Principal Investigator (Overall PI: S Engebretson) Diabetes and Periodontics Trial
NIH/NIDCR 1R01DE018908-01, 07/01/08 - 06/30/13, Total costs (all years) \$15,399,239; 25% effort (25% effort during 07/01/13 – 06/30/14 carryover period)

Investigator (PI: JA Molitor) Prognostic Utility of Periodontal Disease in Rheumatoid Arthritis, Academic Health Center Faculty Development Award, 1/1/10 – 12/31/11, \$206,057 in direct costs (no indirect costs included), 10% effort, No salary recovery

Co-investigator (PI: R Gopalakrishnan), Periodontal disease as a risk factor for ONJ
NIH/NIDCR 1R21DE018717, 08/01/2010 – 07/31/2012, Direct costs \$275,000, 10% effort

Investigator (PI: Bruce Blazar) University of Minnesota Clinical and Translational Science Institute, 1KL2RR033182-01, 06/01/11–02/28/16, Direct costs in year 1: \$1,360,530, 10% effort, Director of summer research program and Member, Education Advisory Committee

Investigator (PI; D. Bandyopadhyay) Robust nonparametric methods of variable selection for clustered periodontal data, 7R03DE020114-03, 8/1/11 – 6/30/12, \$127,489

Investigator (PI; D. Bandyopadhyay) Robust spatial models for clustered periodontal data, 7R03DE021762-02, 8/1/11 – 3/31/13, \$93191

Consultant, (PI: Haitao Chu) Aiding effective decision making in dental research using network meta-analysis, R03 DE024750, 3/1/2015 – 2/29/2016, \$150,000 Direct costs

Co-investigator, (PI: D. Bandyopadhyay) Spatiotemporal Models for Periodontal Disease Monitoring and Recall Frequencies, 5R01DE024984. 09/05/2015 – 07/31/2018

- **Corporate-Sponsored Research**

Investigator, A two-year, multi-center study comparing scaling and root planing to the use of locally-delivered antimicrobial therapy. 100% effort from 9/1/89 - 8/31/90, 50% effort from 9/1/90 - 3/31/91 (\$226,897), *Alza Corporation* (PI: B. Pihlstrom)

Investigator, A 9-month, pilot study comparing scaling and root planing to the use of a locally - delivered antimicrobial therapy. 40% effort, 6/1/91 - 2/28/92 (\$56,720), *Proctor & Gamble* (PI: B. Pihlstrom)

Investigator, A 12-month, parallel-arm study comparing scaling and root planing to the use of a locally-delivered antimicrobial therapy. 20% effort from 1/1/92 - 6/30/92, 10% effort from 7/1/92 - 12/31/92 (\$125,000), *Atrix Laboratories, Inc.* (PI: C. Bandt)

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Principal Investigator, A 9-month, multicenter, single-blind study comparing various usages of a locally-delivered antimicrobial therapy in the treatment of adult periodontitis. 20% effort from 7/26/96 - 7/25/97 (\$200,400), *Atrix Laboratories, Inc.*

Co-Principal Investigator, A 9-month, multi-center, double-blind study of the adjunctive use of a host-modulating agent with scaling and root planing in the treatment of moderate to advanced periodontitis, 10% effort, 3/30/98 - 4/30/99 (\$159,613), *Collagenex Pharmaceuticals*

Investigator, A 6-month, randomized, double-blind, controlled, clinical trial to evaluate the safety and efficacy of a growth factor in the treatment of periodontal bone defects. 10% effort, 5/8/02 – 1/15/03 (\$75,000), *Biomimetics Pharmaceuticals* (PI: J. Hinrichs)

Investigator, A 9-month, multi-center, randomized clinical trial of treatment with Perioclone™ 2% minocycline HCL gel as compared to scaling and root planing in adults with severe periodontal disease, 5% Effort, 8/15/05 – 2/128/07, *Sunstar* (PI: L. Wolff)

Site Principal Investigator, Multi-center phase 3 trial of minocycline HCL 1mg microspheres for the use in subjects with peri-implantitis, 10% effort, 2/1/12 – 6/30/13 (\$76,721 direct costs), *Orapharma*

Educational and Research Presentations

- **Local/State/Regional Presentations**

Minnesota Dental Association Annual meeting, "Surgical treatment of gingival hyperplasia" (Table Clinic), Minneapolis, MN, April 1986

Minnesota Dental Association Annual Convention, "Vertical bitewings" (Table Clinic), Minneapolis, MN, April 1987

UMN School of Dentistry Continuing Dental Education, "Periodontics: Root Planing II", Course given three time per year, 1987-1990

UMN School of Dentistry Continuing Dental Education, "Recent Advances in Periodontal Research", October, 1989

St. Cloud Dental Society (September 1989), UMN Continuing Dental Education (September 1990), Northside Dental Society (February 1991), Minnetonka Dental Society (March 1991). "Heritable influences on periodontal disease" (1-2 hour presentations each)

"Topics in Periodontology", a six-hour continuing education lecture presented to 14 dentists, hygienists, and assistants in New Ulm, MN, August 14, 1992

UMN Division of Biostatistics Seminar, Minneapolis, MN, "Periodontal Disease and Heredity" (Co-presenter: Dr. Dorothee Aepli), January 30, 1992

Midwest Society of Periodontology, "Genetic Aspects of Periodontal Disease," Luncheon for Learning, Chicago, IL, February 15, 1992

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Faculty mentor, Clinical Research Training Workshop, Sponsored by the Minnesota Clinical Dental Research Center, served as a mentor to visiting junior faculty during the week-long workshop, yearly from 1993 - 1997

UMN School of Dentistry Research Seminar Series, "T Cell Proliferation in Smokers and Non-smokers," October 18, 1993

UMN School of Dentistry Continuing Dental Education, Los Cabos, Mexico, Study Abroad, Presented 5, one-hour lectures, including 1) Treatment of the patient with periodontal and restorative needs, 2) Diagnostics and chemotherapeutics in periodontics, 3) Placement and maintenance of dental implants, 4) Current and future approaches to periodontal regeneration, and 5) The genetic bases of common diseases. February 5 - 12, 1994

UMN School of Dentistry Research Seminar Series, "Physiological and immunological effects of nicotine in periodontal disease," December 4, 1995

"Diagnosis and treatment of periodontal disease," Four hours of didactic and seven hours of clinical instruction provided to Park Dental dentists and hygienists, semi-annually from 1991-1994, annually from 1995 - 1999

"Risk assessment in Periodontology" and "Antimicrobial Therapy in Periodontics," three-hour lecture presented to the Calgary (Alberta, Canada) Study Club, May 1996

Minnesota Association of Periodontists Annual Meeting, Bloomington, MN, "Single Tooth Implants," November 21, 1997

UMN School of Dentistry Continuing Dental Education, "Periodontal Therapies II: An Advanced Hands-on Non-surgical Program," (two day clinical and didactic course) December 10-11, 1998

Midwest Society of Periodontology, Chicago, IL, "The Future of Genetics in Addressing Periodontal Disease," Luncheon for Learning, 45th Annual Meeting, February 23, 2002

UMN School of Dentistry Continuing Dental Education, Mini-residency in Dental Materials and Operative Dentistry, "Introduction to Clinical Research and Interactions with Industry," July 17, 2002

Southeast (MN) District Dental Society, Rochester, MN, "Risk Assessment in Periodontics," March 12, 2004

3rd Annual March of Dimes Prematurity Summit, Minneapolis, MN, "Periodontal Disease and its Potential Link to Prematurity," November 15, 2004

UMN School of Dentistry Continuing Dental Education, "The Failing Implant: Etiology and Management," part of "Welcome to implant dentistry: A hands-on training program," February 7, 2005

UMN School of Dentistry Continuing Dental Education, St. Paul, MN, "Periodontal Disease and Pregnancy," November 4, 2005

5th Annual March of Dimes Prematurity Summit, Minneapolis, MN, "Periodontal Therapy and Risk for Preterm Birth," November 17, 2006

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UMN School of Dentistry Research Seminar Series, "Periodontal Disease and Risk for Preterm Birth," Minneapolis, MN, May 9, 2007

Future Doctors of Minnesota, Minneapolis, MN, Seminar for premedical students from underrepresented minorities, "Interactions between dental and medical researchers", June 13, 2007

Northeast (MN) District Dental Society, "Exploring Relationships between Oral and General Health," Hibbing, MN, March 14, 2008

University of Michigan Oral Health Research Seminar Series, "Periodontitis and Adverse Pregnancy Outcomes," Ann Arbor, MI, March 20, 2008

Hennepin County Medical Center Pediatric Grand Rounds, "The OPT Study and the Neurodevelopment Follow-up" Minneapolis, MN, October 16, 2008

Minnesota Academy of General Dentistry, "Oral Health and General Health," 3M Campus, Maplewood, MN, October 24, 2008

UMN School of Dentistry Continuing Dental Education, "Writing a Research Paper," part of the Post-graduate program in esthetic dentistry, Level III – Research Design, January 23, 2009

Health Partners, Presented talk entitled: "Oral Health and General Health," Como Clinic, St. Paul, MN, April 30, 2009

American Diabetes Association's Diabetes Expo, "Ask the Expert" Panelist, Minneapolis Convention Center, Minneapolis, October 2009

6th Annual Dean's Day: Research Updates from the U of M, "Exploring Links between Oral Health and General Health," Minneapolis, MN, March 26, 2010

Minneapolis District Dental Society, "Exploring Links between Oral Health and General Health" September 30, 2010

American Diabetes Association's Diabetes Expo, "Ask the Expert" Panelist, Minneapolis Convention Center, Minneapolis, MN, October 9, 2010

AHC's BIRCWH Journal Club, "Clinical Trials," Minneapolis, MN, November 5, 2010

UMN School of Dentistry Continuing Dental Education, "Writing a Research Paper," part of the Post-graduate program in esthetic dentistry, Level III – Research Design, Minneapolis, MN, January 7, 2011

Hennepin County Medical Center Department of Pediatrics, Grand Rounds, "Maternal Periodontitis and Child Neurodevelopment," Minneapolis, MN, February 28, 2011

7th Annual Dean's Day: Research updates for the U of M, "Advances in Periodontal Research", March 4, 2011

St. Paul (MN) District Dental Society, "Oral and General Health," St. Paul, MN, May, 24, 2011

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UMN Center for Health Equity's High School Summer Research Academy (designed to introduce young people of color to clinical research and health career opportunities), "Oral Health Research," UROC, Minneapolis, MN, June 13, 2011

Marquette University School of Dentistry and Wisconsin AADR, "Periodontitis and Pregnancy Outcomes," Milwaukee, WI, September 28, 2011

Delta Dental of Minnesota Forum, "Evidence-based periodontics," 6-hour continuing education talk, Bloomington, MN, February 10, 2012

UMN School of Dentistry Continuing Dental Education, "Ethics in Clinical Dentistry: Periodontics," St. Paul, MN, March 2, 2012

UMN School of Dentistry Continuing Dental Education, "Writing a Research Paper," part of the Post-graduate program in esthetic dentistry, Level III – Research Design, Minneapolis, MN, January 18, 2013

University of Minnesota Day/Arizona (UMN Alumni Event), "Exploring links between oral and general health," Scottsdale, AZ, February 16, 2013

- **Invited National/International Presentations or Workshops**

Gordon Research Conference on Periodontal Diseases, "Use of Twin Models to Estimate Genetic and Environmental Influences on Periodontitis," Plymouth, NH, June 24-28, 1991

American Association of Dental Research Symposium, "Strategies for Assessment of Genetic Contribution to Periodontal Disease," Boston, MA, March 12, 1992

Task Force on Design and Analysis, "Use of Twin Models in Periodontal Research," Lawrenceville, NJ, May 21, 1992

American Academy of Periodontology Annual Meeting, Projected Clinics, "Genetic Studies in Periodontics," Orlando, FL, November 20, 1992

"People at Risk for Periodontitis" Symposium, Sponsored by the Erwin M. Schaffer Periodontal Research Chair, "Genetic and Heritable Risk Factors in Periodontal Disease," Minneapolis, MN, May 21-22, 1993

American Academy of Periodontology Annual Meeting, "The Implications of Smoking and Tobacco on the Periodontium and Dental Implants" (Co-presenters Drs. Georgia Johnson and Crawford Bain), New York, NY, September 20, 1995

American Academy of Periodontology World Workshop in Periodontics, Section Participant: Etiology and Pathogenesis, Landsdowne VA, July 13-17, 1996

Irish Society of Periodontists, Presented lectures entitled: Genetic Influences on Periodontal Disease, Physiological and Immunological Effects of Smoking on the Periodontium, Locally-Delivered Antimicrobials, and Treatment of Failing Implants, Galway, Ireland, August 24, 1996

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Norwegian Dental Association Annual Meeting, Presented lectures entitled Etiology and Treatment Options for Failing Implants, Dental Health and Heredity, and Risk Factors for the Periodontal Diseases, Stavanger, Norway, October 10 - 12, 1996

American Academy of Periodontology Annual Meeting, "Genetics in Clinical Practice" (Co-presenters: Drs. Tom Hart, Jorgen Slots, Tom Wilson), Boston, MA, September 16, 1998

Workshop on the Genetics of Human Dentition, Participant, "Clinical Applications of Genetic Information", National Institute of Dental and Craniofacial Research, NIH, Bethesda, MD, September 13, 1999.

Society of Clinical Research Associates (SOCRA) Annual Meeting, "Clinical Trials in Dentistry: There's More to it Than Testing Toothbrushes," Washington DC, September 15-17, 2000.

Calgary and District Dental Society Meeting. "Topics in Periodontics," (6 hours of lectures) Calgary, Alberta, March 21, 2003

Task Force on Design and Analysis, "Genetic Polymorphisms in Chronic Periodontitis," Newark, NJ, May 21, 2003

Tenenbaum Lecture, Columbia University School of Dental and Oral Surgery, "Genetic Epidemiology of Chronic Periodontitis," New York, NY, April 29, 2004

Task Force on Design and Analysis, "Obstetrics and Periodontal Therapy Trial: Design and Implementation," Newark, NJ, December 7, 2004

IADR/AADR Symposium, "The interaction between the DSMB, the investigators, and the local IRBs," Baltimore, MD, March 12, 2005

University of Illinois/Chicago Interdisciplinary Research Seminar Series, "The Obstetrics and Periodontal Treatment Study: Design and Methods", UIC School of Dentistry, Chicago IL, September 12, 2005

Health and Human Services, Health Resources and Services Administration, Maternal and Child Health Bureau Forum, *Research to Policy and Practice: Periodontal health and Birth Outcomes*. Invited speaker and participant, Washington DC, December 11-12, 2006

Society for Clinical Trials, 28th Annual Meeting, "Issues and challenges in oral health clinical trials," Montreal Canada, May 22, 2007

The New York Academy of Sciences Symposium: From Basic Science to Clinical Practice and Policy: A Medical-Dental Dialogue on the Relationship between Periodontal Disease and Systemic Health, "Periodontal Infections and Pregnancy Complications: Lessons from Intervention Studies," New York, NY, January 18, 2008

International Association of Dental Research Symposium, "Periodontal Therapy and Systemic Health Outcomes - What Have We Learned from Intervention Trials?" (Co-presenters Drs. Raul Garcia and Francesco D'Auito), Toronto, Canada, July 3, 2008

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British Society of Periodontology Annual Meeting, Lecturer: "Are genetic factors relevant to clinical periodontal practice?" and "Periodontitis and preterm birth", London, U.K., September 23-24, 2010

Ohio State University College of Dentistry's Distinguished Lecture Series, Columbus, OH, April 24-25, 2012

Task Force on Design and Analysis, "Can pocket depth be used as a surrogate for clinical attachment level?" Newark, NJ, May 8, 2012

American Dental Association Annual Meeting, Perinatal Oral Health and Dental Practice Course, "Current Science: Oral Disease & Pregnancy Outcomes" San Francisco, CA, October 20, 2012

European Federation of Periodontology / American Academy of Periodontology Workshop in Periodontology 2012, "Periodontitis and Systemic Diseases," Segovia, Spain, November 11-14, 2012 (Invited reviewer and participant)

Peer-Reviewed Articles

1. Michalowicz BS, Aeppli D, Virag JG, Klump DG, Hinrichs JE, Segal NL, Bouchard TJ, Jr., Pihlstrom BL. Periodontal Findings in Adult Twins. *J Periodontol* 62: 293-299, 1991.
2. Michalowicz BS, Aeppli DP, Kuba RK, Bereuter JE, Conry JP, Segal NL, Bouchard TJ, Jr, Pihlstrom BL. A Twin Study of Genetic Variation in Proportional Radiographic Alveolar Bone Height. *J Dent Res* 70: 1431-1435, 1991.
3. Michalowicz BS. Genetic and Inheritance Considerations in Periodontal Disease. *Current Opinions in Periodontology* 11-17, March, 1993.
4. Rudney JD, Michalowicz BS, Krig MA, Kane PK, Pihlstrom BL. Genetic Contributions to Saliva Protein Concentrations in Adult Twins. *Arch oral Biol* 39: 513-517, 1994.
5. Michalowicz BS. Genetic and Heritable Risk Factors in Periodontal Disease. *J Periodontol* 65: 479-488, 1994.
6. Michalowicz BS. Genetic risk factors for the periodontal diseases. *Compend Contin Educ Dent* 15: 1036-1050, 1994.
7. Mathur A, Michalowicz BS, Yang C, Aeppli D. The Influence of Periodontal Bacteria and Disease Status on V β expression in T Cells. *J Periodont Res* 30: 369-373, 1995.
8. Drisko CL, Cobb CM, Killoy WJ, Michalowicz BS, Pihlstrom BL, Lowenguth RA, Caton JG, Encarnacion M, Knowles M, Goodson JM. Evaluation of Periodontal Treatments Using Controlled-Release Tetracycline Fibers: Clinical Response. *J Periodontol* 66: 692-699, 1995.
9. Michalowicz BS, Pihlstrom BL, Drisko CL, Cobb CM, Killoy WJ, Caton JG, Lowenguth RA, Quinones C, Encarnacion M, Knowles M, Goodson JM. Evaluation of Periodontal Treatments Using Controlled-Release Tetracycline Fibers: Maintenance Response. *J Periodontol* 66: 708-715, 1995.
10. Lowenguth RA, Chin I, Caton JG, Drisko CL, Cobb CM, Michalowicz BS, Pihlstrom BL, Goodson JM. Evaluation of Periodontal Treatments Using Controlled-Release Tetracycline Fibers: Microbiological Response. *J Periodontol* 66: 700-707, 1995.
11. Prabhu A, Michalowicz BS, Mathur A. Detection of local and systemic cytokines in adult periodontitis. *J Periodontol* 67: 515-522, 1996.
12. Boutros SM, Michalowicz BS, Smith QT, Aeppli DM. Crevicular fluid enzymes from endosseous dental implants and natural teeth. *Int J Oral Maxillofac Implants* 11: 322-330. 1996.
13. Mathur A, Michalowicz B, Castillo M, Aeppli D. Interleukin- 1 alpha , Interleukin-8, and Interferon alpha levels in gingival crevicular fluid. *J Periodont Res* 31: 489-495, 1996.
14. Mathur A, Michalowicz BS. Cell-mediated immune system regulation in periodontal diseases. *Crit Rev Oral Biol Med* 8:76-89, 1997.

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15. Pihlstrom B, Michalowicz B. Genetic risk for periodontal disease: A clinical perspective. *Journal de Parodontologie d'implantologie orale* 17: 123-125, 1998.
16. Michalowicz BS, Aeppli D, Klump D, Wolff L, Hinrichs J, Pihlstrom B. Periodontal bacteria in adult twins. *J Periodontol* 70: 263-273, 1999.
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 - Tenth edition, eds. MG Newman, HH Takei, PR Klokkevold, FA Carranza. Saunders Elsevier Company, St. Louis, 2006
2. Ronderos M & Michalowicz BS. Epidemiology of Periodontal Diseases and Risk Factors. In: Periodontics: Medicine, Surgery, and Implants, Eds. LF Rose, BL Mealey, RJ Genco, and DW Cohen, Elsevier, Philadelphia, 2004
3. Pihlstrom BL, Michalowicz BS, Atkinson J, Kingman A. Clinical Trials Involving Oral Diseases. In: Clinical Trials Handbook, Ed. SC Gad, John Wiley and Sons, Inc., Hoboken, New Jersey, 2009
4. Braveman N and Michalowicz BS. Phase III Clinical Trials. In: Clinical Research in Oral Health. Eds., WV Giannobile, BA Burt, RJ Genco, Blackwell Publishing, 2010.

Student Advisees

(Student, year completed, degree, project title, my role)

David G. Klump, 1994, MS (Dentistry), Bacteriologic and clinical studies in twins, Advisor and examining committee member

Monica P. Castillo, 1994, MS (Dentistry), Measurement of IL-1 α , IL-6, IL-8 and IFN- α in gingival crevicular fluid of patients with chronic adult periodontitis, Advisor and examining committee member

Beatrice E. Terry, 1994, MS (Dentistry), Association between cigarette smoking and peripheral T cell proliferation in subjects with periodontal disease, Major thesis advisor

Stephan Eidam, 1995, MS (Dentistry), Nicotinic Non-Cholinergic Receptors on Human Polymorphonuclear Leukocytes (PMN) and HL-60 Cells, Major thesis advisor

Suheil Boutros, 1995, MS (Dentistry), Analysis of Crevicular Fluid Enzymes (GCF) From Health and Inflamed Gingival Adjacent to Endosseous Dental Implants, Major thesis advisor

May 2018

Laura LoBianco, 1999, MS (Dentistry), Temporomandibular Joint and Radiographic Findings in Twins, Major thesis advisor

Renée Cámara, 2001, MS (Dentistry), Juvenile Periodontitis in Jamaican Adolescents, Major thesis advisor.

Kumar Vadivel, 2004, MS (Dentistry), A Descriptive Study of the Relative Safety and Effectiveness of Various IV Regimens used during Implant and Periodontal Surgery, Advisor and examining committee member.

J. Caspar Wohlfahrt, 2004, MS (Dentistry), Genetic Epidemiology of Chronic Periodontitis, Major thesis advisor

Keerthana Satheesh, 2005, MS (Dentistry), Cytochrome P450 Gene Polymorphism in Chronic Periodontitis, Major thesis advisor

Leonidas Batas, 2005, MS (Dentistry), TLR-4 Pathway in a murine model of periodontal bone loss, Advisor and examining committee member

Robert Durand, 2006, MS (Dentistry), Caries and the Risk of Preterm Birth, Major thesis advisor

Christie Berkseth, 2007, Summer Pre-doctoral Research Fellow (First-year DDS Student), Effect of tooth loss on oral health quality of life, Primary mentor

Ryan Wolff, 2008, Summer Pre-doctoral Research Fellow (Second-year DDS Student), Diabetes screening in a dental clinic population, Primary mentor

Joshua Bednar, 2010, Summer Pre-doctoral Research Fellow, Associations between periodontal and general health measures in adult twins reared apart, Primary mentor

Schmalz, Emily, 2013, Risk factors for dental implant failure, MS (Dentistry), Major thesis advisor

Amruta Naik, 2014, Predictors of periodontal treatment response in pregnant women, MS (Clinical Research), Major thesis advisor

Andreas Ioannou, 2015, Quality of life with implants and fixed prostheses, MS (Dentistry), Major thesis advisor until 2014

External Examiner/Reader for Student Research

Sherrie Dowsett, 2001, PhD, Untreated Periodontal Disease in Indigenous Populations of Guatemala, Central America: Epidemiological, Genetic and Microbial Considerations, Advisor and Examining committee member (Main advisor: Michael Kowolik), Indiana University.

Qiao Fan, 2002, MS (Biostatistics), Conditional Autoregressive (CAR) model applied to a periodontal data set, Examining committee member (Main advisor: James Hodges), UMN

May 2018

Scott Wehrenberg, 2005, MS (Biostatistics), Investigating the accuracy of asymptotic approximation of gray's competing risk analysis, Examining committee member (Main advisor: James Hodges), UMN

Qing Cao, 2006, MS (Biostatistics), Baseline Serum Antibodies and Measures of Infection in the Obstetrics and Periodontal Therapy Trial, Examining committee member (Main advisor: James Hodges) UMN

Qun Shi, 2008, MS (Biostatistics), Mechanism of the Bacteriophage ϕ 29 DNA-Packing Motor, Examining committee member, UMN

Arezou Nejad, 2012, MS (Dentistry), The correlation between caries and periodontal disease. Thesis reviewer (Co-advisor: Robert Durand), University of Montreal

Patrick Hilden, 2012, MS (Biostatistics), Analysis of Correlated Count Data with Excess Zeros via the SAS NLMIXED Procedure, Examining committee member (advisor: Dipankar Bandyopadhyay), UMN

Hargit Sehgal, 2013, MS (Dentistry), Examining committee member (Main advisor: James Hinrichs)