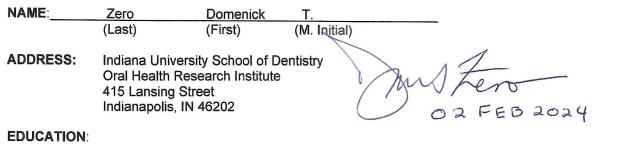
CURRICULUM VITAE (updated 02/2024)



Undergraduate	: <u>St. John's University</u>	B.S.	1968-1971	
Graduate:	Georgetown University School of Dentistry	D.D.S.	1971-1975	
Post Doctoral:	University of Rochester	M.S.	1976-1979	

ACADEMIC APPOINTMENTS (inclusive dates):

7/01/76 6/30/77	Clinical Instructor, Department of General Dentistry, Eastman Dental Center.
7/01/77 - 6/30/79	Research Assistant, Department of Caries Research, Eastman Dental Center.
7/01/79 - 7/31/81	Research Associate, Department of Caries Research, Eastman Dental Center.
7/01/80 - 6/30/81	Instructor, Department of Dental Research, University of Rochester.
3/01/81 - 7/31/81	Assistant Chairman, Department of Caries Research, Eastman Dental Center.
7/01/81 - 8/31/81	Assistant Professor, Department of Dental Research, University of Rochester.
8/10/81 - 6/30/85	Assistant Professor, Department of General Dentistry, Medical College of Virginia, Virginia Commonwealth University.
7/01/85 6/30/88	Research Associate, Department of Oral Biology, Eastman Dental Center, Clinical Associate, Department of General Dentistry, Eastman Dental Center.
10/01/86 – 12/31/97	Associate Professor of Clinical Dentistry (adjunct), University of Rochester.
4/01/87 - 12/31/97	Associate Professor of Dental Research (adjunct), University of Rochester.
7/01/88 - 6/30/90	Section Head, Intraoral Studies, Department of Oral Biology, Eastman Dental Center.
7/01/90 - 8/31/92	Senior Research Associate, Eastman Dental Center
7/01/90 6/30/99	Head, Division of Intraoral Studies, Department of Oral Sciences, Eastman Dental Center
9/01/92 - 9/09/96	Associate Professor, Department of Oral Sciences and Department of General Dentistry, Eastman Dental Center
9/14/94 12/31/98	Associate Director for Research, Eastman Dental Center
1/01/95 6/30/99	Program Director, Oral Sciences, Eastman Dental Center
9/10/96 6/30/99	Professor, Oral Sciences and General Dentistry Program, Eastman Dental Center
1/01/98 6/30/99	Professor of Dentistry, University of Rochester Eastman Department of Dentistry
7/01/99 6/30/14	Professor of Preventive and Community Dentistry (with tenure), Indiana University School of Dentistry
7/01/99 6/30/2021	Director of the Oral Health Research Institute
9/15/99 6/30/13	Chairman, Department of Preventive and Community Dentistry, Indiana University School of Dentistry
8/01/02 - 6/30/13	Associate Dean for Research, Indiana University School of Dentistry
4/01/09 —	Graduate Faculty, Purdue University, special appointment based on the nomination of the Department of Foods and Nutrition
7/01/14 —	Professor, Department of Cariology, Operative Dentistry and Dental Public Health, Indiana University School of Dentistry
3/01/16	Adjunct Professor of Family Medicine, Department of Family Medicine, Indiana University School of Medicine

OTHER APPOINTMENTS AND PROFESSIONAL CONSULTANTSHIPS (including other remunerated employment):

1977-1981 Administrator and Clinical Supervisor of Dental Care for Adult Handicapped Patients, Department of General Dentistry, Eastman Dental Center.

1980-1981	Administrator and Clinical Supervisor for the Supplemental Practice Program, Department of
	General Dentistry, Eastman Dental Center.
1986-1991	Dairy Council Inc., Advisory Committee,
1991-1995	National Dairy Council, Visiting Professorship in Nutrition Speakers List
1992-1996	Scientific Advisor to the International Life Sciences Institute, North America Oral Health Committee
1997-1999	Dental Advisory Board of the Gatorade Sports Science Institute
1999	CPP-ACP Scientific Advisory Board of Bonlac Foods Limited
2002-2004	Consultant, Dental Products Panel of the Medical Devices Advisory Committee, Center for
	Devices and Radiological Health, Food and Drug Administration
2002	Member, National Institute of Dental and Craniofacial Research, Caries Technical Advisory Panel
2004-2007	Member, Dental Products Panel of the Medical Devices Advisory Committee, Food and Drug Administration
2004-2007	Member, Expert Panel on School-based Dental Sealant Programs, Center of Disease Control and Prevention
2004	Member, Marion County Oral Health Task Force
2004	Member, GlaxoSmithKline New Horizons in Oral Care Advisory Board
2005	Member, GlaxoSmithKline Saliva/Dry Mouth Advisory Board
2005-2009	Member, NIDCR-funded Dental Practice Based Research Network Protocol Review Committee
2005-2006 2006-2008	Member, ADA Expert Panel on Professionally Applied Topical Fluoride Consultant, ADA Council on Scientific Affairs Risk Assessment Subcommittee
2006-2008	Member, Internal Advisory Committee and Curriculum Subcommittee, NCI/NIH R25 Training in
2000 2010	Research for Behavioral Oncology and Cancer Control; PI: Victoria Champion, IU School of Nursing
2006-	Member, Cochrane Oral Health Group
2006-	Founding Member, International Caries Detection and Assessment System (ICDAS) Foundation Board
2007-2008	Member, Data Safety Monitoring Board, Phase I/II Clinical Trial Sponsor: Solstice Neurosciences
2007-2015	Member, External Advisory Committee for the Forsyth Institute Children's Oral Health Center
2007	Member, Data Safety Monitoring Board, NIH/NIDCR-sponsored study on Xylitol for Caries Prevention in Inner-City Children
2007-	Member, Task Force on Design and Analysis in Oral Health Research
2008-2018	Member, Advisory Committee, NIH-funded Indiana Clinical Research Center
2008-2016	Member, Executive Committee, NIH-funded Indiana Clinical and Translations Sciences Institute
2008-2009	Member, Coordination Committee, Health Resources and Services Administration (HRSA)- funded Indiana Strategic Oral Health Initiative
2008-2017	Member, Behavioral/Population Science Project Development Team, NIH-funded Indiana Clinical and Translations Sciences Institute
2010-2015	Member, Sjögren's Syndrome Foundation Clinical Practice Guidelines – Oral Working Group
2010-2015	Member, Johnson & Johnson Oral Care Advisory Board
2010-2011	Member, Steering Committee and Working Group, ADA Evidence-based Clinical Recommendations on Non-fluoride caries preventive agents
2011-2013	Member, Steering Committee and Working Group, ADA Evidence-based Update on Clinical Recommendations on Topical Fluoride
2011-2022	Chair, NIDCR Clinical Study Oversight Committee (CSOC) for Dental Genetics Studies
2011-2016	Member, C3 Jian Clinical Advisory Board
2012	Member, C3 Jian Data Review Committee
2014	Chair, Johnson & Johnson Asia Pacific Advisory Board
2015	Co-Chair, Regulatory and Commercialization Perspectives Session NIDCR Workshop on Re- mineralization: Current State of Science and Future Directions
2015-2016	Member, Academy of General Dentistry Acid Erosion Guidelines Task Force
2010-2010	member, Academy of Ceneral Dentistry Acid Liosion Guidellies TASK FUICE

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2015-	Consultant, FDA Center for Devices and Radiological Health
2015-2016	Consultant, World Dental Federation for the FDI/Colgate Caries Prevention Partnership
2016-	Member, ADA Center for Evidence-Based Dentistry's Expert Panel for the ADA Clinical Practice Guideline on Caries Management
2016-2018	Member, Noveome Therapeutics Advisory Board and Perio 201 Steering Committee
2016-	Member, Erosive Tooth Wear Foundation Scientific Advisory Team
2017-2018	Chair, Clinical Practice Guidelines Oral Working Group Sjögren's Syndrome Foundation
2017-2020	Founding Board Member, American Academy of Cariology and Chair Advocacy & Support Pillar
2019-	Member, ADA Center for Evidence-Based Dentistry's Expert Panel for the ADA Clinical Practice Guideline on Restorative Treatments for Carious Lesions
2019-2021	Consultant, GreenMark Biomedical Inc.
2020	Member, Novartis Sjogren's Syndrome Steering Committee
2020-2021 2021-2022	Member, Alliance for a Caries Free Future 'Making Cavities History' Taskforce Core Group Member, CareQuest Review Team on a meta-analysis on the clinical effectiveness of Curodont in treating initial caries lesions.
2022-	Mentor, Smile Health (Simple, Minimally Invasive, Integrated, Low-barrier, and Equitable) program for start-up companies. No activity as of yet.
2022-2023	Member, Economist Impact's Improving Oral Health: Global Opportunity for Levelling Up Expert Panel, commissioned by European Federation of Periodontology and sponsored by Haleon
2022-2023	Consultant, Special Committee on Consensus Outcomes of the American Association of Endodontics
2022-2023	Member, Haleon expert steering group to develop Delphi consensus on best practice for the prevention and management of erosive tooth wear
2022-	Consultant, American Dental Association Task Force on Sugar, Nutrition, and Diet
2023	Member, Haleon Caries Advisory Board

LICENSURE AND CERTIFICATION:

New York # 032278 (inactive)		Northeast Regional Board
Virginia	# 0401-005896 (inactive)	Southeastern Regional Board
Indiana	# 12010340A	-

PROFESSIONAL ORGANIZATIONS (including offices held and committee memberships):

Scientific and Professional

International Association for Dental Research (IADR) American Academy of Cariology (AAC) American Association for Dental Research (AADR) European Organization for Caries Research (ORCA) American Dental Association (ADA) (Achieved Life Membership 2022) American Dental Education Association (ADEA)

<u>Honorary</u>

Omicron Kappa Upsilon Dental Fraternity – Achieved Life Membership 2009 Pierre Fauchard Academy American College of Dentists (Life Member)

HONORS AND AWARDS:

- 1975 Graduated from Dental School with the following honors:
 - a. Graduate Dental School cum laude

- b. International College of Dentists Award for the Most Professional Growth and Development during Four Years of Dental Study
- c. Alpha Omega Scholarship Rating for the Highest Scholastic Standing Four Years of Dental Study
- d. Dr. Morris Horowitz Memorial Prize for Scholastic Achievement
- e. Z. Bernard Lloyd Memorial Award for Outstanding Achievement in Orthodontics
- f. William Brown Ingersoll Endodontics Award for Outstanding Scholarship
- 1979-1981 NIH National Research Service Award for Individual Postdoctoral Fellows
- 1979 Michael G. Buonocore Prize AADR Rochester Chapter
- 2007, 2022 Indiana University School of Dentistry Alumni Association Distinguished Faculty Award for Research
- 2022 Yngve Ericsson Prize for Research in Preventive Odontology presented at the ORCA Congress in Cagliari, Sardinia, Italy
- 2022 American Dental Association's 2022 Norton M. Ross Award for Excellence in Clinical Research
- 2022 Callahan Memorial Award presented at the Ohio Dental Association's 156th Annual Session
- 2023 IADR Distinguished Scientist William H. Bowen Research in Dental Caries Award

TEACHING ASSIGNMENTS:

3.

1. Virginia Commonwealth University, Medical College of Virginia, 110 dental students

- Cariology Course Course director and principle lecturer 1982-1984, 19 lecture hours covering the epidemiology, etiology, diagnosis and prevention of dental caries. Prepared a complete course syllabus. Lecture topics: Epidemiology of Caries; Etiology of Caries: Caries Theories/ Time; Etiology of Caries: Host Factors Teeth; Etiology of Caries: Microbiological Factors I & II; Etiology of Caries; Caries Diagnosis and Treatment Planning; Caries Research; Clinical Cariology: Special Situations; Caries Prevention; Caries Prevention: Plaque Control Chemical; Caries Prevention: Dietary Measures; Fluoride: Overview; Fluoride: Biochemistry
- b. Pre-Clinical Laboratory Occlusion Course Instructor, 1982 1984
- c. Clinical Instructor in the Clinical Diagnostic and Skill Development Clinic, Preventive Clinic, Dental Auxiliary Utilization Clinic, 1983 1985.

2. Virginia Commonwealth University Graduate Students

Topic	Date
Dental Plaque Ecology	1983, 1984, 1985
Microbiology of Dental Caries	1983, 1984, 1985
stgraduate Students and Residents	- /
	Date
Carbonydrates	November 15, 1977
Faculty Advisor	1978 - 1981
for Residents	
Dentistry for the	August 28, 1978
Handicapped	U
Re-evaluation of the	August 18, 1978
Routine Prophylaxis	0 /
Pellicle-Enamel Interface	November 3, 1978
Faculty Advisor	1979 - 1981
for Residents	
Dental Care for the	July 5, 1979
Handicapped	
	Dental Plaque Ecology Microbiology of Dental Caries stgraduate Students and Residents <u>Topic</u> Carbohydrates Faculty Advisor for Residents Dentistry for the Handicapped Re-evaluation of the Routine Prophylaxis Pellicle-Enamel Interface Faculty Advisor for Residents Dental Care for the

Lecture Series	Routine Prophylaxis	
Science of the Oral Environment	Dietary Effects on Plaque pH	September 25, 1979
Science of the Oral Environment	Structure of Acquired Pellicle	January 15, 1980
Science of the Oral Environment	The Role of Acquired Pellicle in Dental Disease	January 22, 1980
Scientific Basis of Dental Practice	Sound and Aerosols: the use and dangers of the high-speed drill	April 9, 1980
General Dentistry Case Presentation Series	Group Leader	1980 - 1981
General Dentistry Summer Lecture Series	Opportunities for the Handicapped at EDC	July 22, 1980
General Dentistry Summer Lecture Series	Re-evaluation of Routine Prophylaxis	July 29, 1980
Scientific Basis of Preventive Dentistry	Evaluating the Cariogenicity of Foods	March 17, 1981
General Dentistry Summer Lecture Series	Method of Caries Diagnosis and Treatment Planning	August 1985 - 1987
General Dentistry Summer Lecture Series	Role of Fluoride in Caries Prevention	August 1985 - 1987
General Dentistry Case Presentation Series	Group Leader	1985 - 1987
General Practice Presentation Series	Faculty Advisor for Residents	1985 - 1987 1990-1999
General Dentistry Prevention Course	Seminar Organizer and Leader	1986, 1987
General Dentistry Topic of the Week	Seminar Organizer and Leader	1986, 1987
Chemical Aspects of Dental Caries	Extracellular Polymers and Caries	December 9, 1986
Current Concepts in Pediatric Dentistry	Microbial Virulence Factors Involved in Caries	May 18, 1987; April 25, 1988; February 13, 1989
Chemical Aspects of Dental Caries	Clinical Aspects of Remineralization	April 25, 1989; April 24, 1990; May 14, 1991; April 28, 1992; April 27, 1993; April 29, 1994; April 25, 1995
Chemical Aspects of Dental Caries	Fluoride and Plaque Metabolism	Mar. 30, 1993; April 8, 1994; April 4, 1995
General Dentistry Summer Lecture Series	Prevention I	August 19, 1991; August 5, 1992; July 14, 1993; July 7, 1994; July 19, 1995; August 14, 1996; August 5, 1997
General Dentistry Summer Lecture Series	Prevention II	August 26, 1991; August 12, 1992; July 21, 1993;

		July 27, 1995; August 21, 1996; August 19, 1997
General Dentistry Summer Lecture Series	Research Opportunities	August 18, 1992; August 16, 1995
Current Aspects in Pediatric Dentistry	Research Opportunity in Intraoral Studies	November 12, 1991; October 2, 1992
Scientific Basis of Safe Dental Practice	Fluoride: Dental Uses, Safety, Control	November 26, 1991; September 28, 1993; March 5, 1996; March 17, 1998
General Practice Presentation Series	Course Director and Student Advisor	1991 - 1995
General Practice Presentation Series	Student Advisor	1996-1997
Clinical Aspects of Dental Caries	Course Director	1996- 1999
T	Overview of the Etiology of Dental Caries	January 28, 1997; January 23, 1998; February 2, 1999
T	Caries Diagnosis and Treatment Planning	January 26, 1996; February 4, 1997; January 30, 1998; February 16, 1999
T	Clinical Use of Fluorides	February 9, 1996; February 25, 1997; February 20, 1998; March 16, 1999
n	Role of Diet in Caries Prevention	February 23, 1996; February 11, 1997; February 6, 1998; February 9, 1999
T	Diagnosis and Management of Dental Erosion	April 5, 1996; March 4, 1997; February 27, 1998; April 13 & 20, 1999

July 14, 1994;

4. University of Rochester Graduate Students

Course	Topic	Date
Saliva	Organic Components of Saliva	Oct. 31, 1980
Pharmacology and Therapeutics	Nonsteroidal Anti- Inflammatory Drugs	April 2, 1990; March 2, 1992
Fundamentals of Dental Caries	<i>In situ</i> Caries Models	November 28, 1994; November 27, 1995; November 11, 1996; November 10, 1997; November 2, 1998;
Π	Enamel, Dentine, Cementum (Chemistry and Structure)	October 9, 1995; September 16, 1996; September 15, 1997; September 14, 1998
"	Histology of Carious Lesions	October 9, 1995;

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		in Enamel	September 16, 1996; September 15, 1997; September 14, 1998
	u	Enamel De- and Remineralization	November 6, 1995; October 21, 1996; October 20, 1997; October 12, 1998
	n	Rational Use of Fluorides	November 6, 1995; October 21, 1996; October 20, 1997; October 12, 1998
5.	Indiana University School of Dentist Course	ry 100 Dental Students Topic	Date
T720	Advanced Restorative Dentistry	Caries Risk Assessment and Prevention	October 31, 2000; September 4, 2001; August 20, 2002; August 19, 2003
u	n	Management of the High Caries Risk Patient	November 14, 2000; September 11, 2001; September 03, 2002; August 26, 2003
ű	u	Management of Dental Caries I	August 17, 2010; August 16, 2011
"	u	Management of Dental Caries II	August 24, 2010 August 23, 2011
T720	GLA Module	Mentor	Spring & Fall 2000- 2018; Spring 2019 Online Spring 2020
T540	Dental Sciences I	Introduction to Dental Caries	November 2, 2001 Spring 2002
T562	Oralfacial Biology II	Introduction to Dental Caries Etiology: Diet	April 12, 2001 May 1, 2001;
"	"	Caries Management Diet	April 11, 2002 May 22, 2001; May 28, 2002; April 24, 2012
"	Υ	Diagnosis and Management of Dental Erosion	May 10, 2001; May 23, 2002; May 22, 2003; May 25, 2004; May 24, 2005; May 23, 2006; April 12, 2007; April 8, 2008; April 9, 2009; April 13, 2010; April 12, 2011;
n	n	Introduction to Caries Management/ Caries Theories and Diet	April 11, 2013
T740	Clinical Sciences III	Clinical Coverage – 4h/week	Fall 2001; Spring/Fall 2002; Spring 2003; Spring 2003;

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T840	Clinical Sciences IV	Clinical Coverage – 4h/week	Spring & Fall 2006- 2016 Fall 2001; Spring/Fall 2002; Spring 2003; Spring/Fall 2006- 2016
D520	Risk Assessment, Prevention, and Early Management of Dental Disease	Understanding the Etiology of Dental Caries and Its Application in Caries Management	Oct 14 & 28, 2014
n	"	Etiology of Caries: Caries Theories	Sep 8, 2015; Oct 11, 2016; Oct 10, 2017; Aug 28, 2018
"	"	Etiology of Caries: Diet factor	Sep 29, 2015; Sep 27, 2016; Oct 10, 2017
"	H	Etiology of Caries: Caries Theories and Diet Factor	Aug 28,2018; Sep 24, 2019; Sep 24, 2020; Sep 9, 2021; Sep 13, 2022 Sep 12, 2023
"	n	Fluoride mechanism of action, kinetics, metabolism and toxicity	Sep 21, 2021
		Introduction to dental plaque (caries and periodontal disease)	Sep 23, 2022 Aug 29, 2023
D630	Clinical Applications of Cariology and Operative Dentistry Concepts	Etiology of Dental Caries I (Theories/Host Factors)	Aug 20, 2015
"	n	The Role of Dietary Factors in Dental Caries Etiology	Aug 27, 2015
"	n	Caries Risk Assessment: Clinical Application (Laboratory)	Sep 3, 2015
D703	Applied Clinical Patient Management Group Leaning Activity (GLA)	Mentor	Spring/Fall 2018
D735	Cariology and Operative Dentistry Clinic I	Clinical Coverage – 4h/week	Fall 2017
D736	Cariology and Operative Dentistry Clinic II	Clinical Coverage – 4h/week	Spring 2018
SP20	Online - Integrating Interprofessional Collaboration Skills (Anchor 4)	Facilitator	Spring 2020; Spring 2021
	Online – Applying Interprofessional Collaboration Skills (Anchor 3)	Facilitator	Spring 2020
	Online - Introducing Interprofessional Collaboration (TEACH! Anchor 1)	Facilitator	Fall 2020
6.	Indiana University School of Dentistr	-	Data
R956	Course Current Topics in Oral Biology	<u> </u>	<u>Date</u> Oct 2 & 6, 2000
		Oral Biology of Chewing Gum	Nov 12 & 14, 2001; Feb 28 & Mar 8, 2007

"	"	Oral Pharmokinetics of Fluoride	Feb 16 & 18, 2009;
"	n a	In situ biofilm model studies Article review	Jan 25 & 30, 2017; Spring, 2021; Spring, 2022
R959	Graduate Oral Microbiology	Use of In situ Models in Oral Microbiology	Jan 26, 2001; Jan 25, 2002; Jan 24, 2003; Feb 20 & 22, 2006
R909	Advanced Preventive I	Diet and Caries	Sep 19, 2000; Oct 23, 2001; Oct 15, 2002; Oct 14, 2003; Sep 28, 2004; Sep 11, 2012; Sep 10, 2013
"	n	Caries Management	Sep 21, 2010
"	"	Saliva and Dental Caries	Sep 13, 2011
"	Π	Etiology of Caries: Caries Theories and Host Factors	Aug 27, 2013
		Etiology of Caries: Microbial Factor	Aug 28, 2022 Sep 5, 2023
R910	Advanced Preventive II	Caries Management: Diet	Nov 21, 2000; Jan 22, 2002; Feb 13, 2004; Apr 23, 2012; Jan 21, 2014; Jan 27, 2015
"	n	Caries Management High Risk Patient Populations	Mar 24, 2015
"	Π	High Caries Risk / Diet and Caries Management	Mar 8, 2016
"	n	Dental Erosion Etiology & Management	Apr 2, 2002; Apr 8, 2003; Apr 12, 2005; Feb 7, 2006; Feb 27, 2007; Mar 10, 2009
"	T	High Caries Risk Assessment and Management & ICCMS	Mar 6, 2018; Mar 5, 2019; Jan 21, 2020; Jan 12, 2021; Mar 29, 2022
R911	Advanced Preventive III	Acquired Pellicle/Organic Matter In situ Models for Caries Research	Oct 5, 2001; Sep 25, 2003; Aug 29, 2005
"	n	Design of Clinical Studies in Caries Research	Sep 22, 2014; Sep 13, 2017
R955	Oral Biology	Fluoride: Kinetics and interaction with Plaque and the Tooth	Jul 20, 2006
G910	Preventive Dentistry Seminar	Caries Risk Assessment	Feb 18, 2014; Feb 24, 2015

	"	G910 Research Methods: Design of Clinical Studies	Oct 15, 2014
		Current Understanding of Caries Risk Assessment	Sep 16, 2020; Oct 06, 2021
		The Role of Diet in Dental Caries	Aug 31, 2022 Oct 18, 2024
R980	Research Methodology	Clinical Protocol Development	Oct 14, 2015; Oct 12, 2016; Nov 8, 2017; Nov 28, 2018; Nov 6, 2019; Nov 4, 2020; Oct 27, 2021; Nov 2, 2022 Nov 1, 2023
	"	Ethical Issues in Clinical Research	Sep 29, 2021; Oct 26, 2022 Oct 25, 2023
Oral & Maxillofacial Surgery Residents		Clinical Research Protocol Development	Apr 6, 2023
		Clinical Research Ethics	Apr 13, 2023
Orthodontic Residents		Introduction to Research	Jul 14, 2023

PROFESSIONAL SERVICE:

Reviewer National Institutes of Health/National Institute of Dental and Craniofacial Research (NIH/NIDCR)

	tes of freath/Mational institute of Dental and Chamblacial Research (Min/MiDCR)
1992	Special Outside Reviewer
1993	Member, Special Review Group, Clinical Core Centers for Preventive and
	Operative Dentistry
1996	Member, Special Emphasis Panel, Program Project Review
1999	Chair, Teleconference Review of R01
2003	Member, Special Emphasis Panel, Teleconference Review of R01
2004	Member, Special Emphasis Panel, Teleconference Review of R21
2004	Member, Special Emphasis Panel, Teleconference Review of R01
2005	Member, Special Emphasis Panel, Teleconference Review of R21
2005	Member, Special Emphasis Panel, Teleconference Review of R23
2005-2009	Member, Protocol Review Committee, Dental Practice Based Research Network
2008	Member, NIH/CDER Technical Advisory Group for a Genome Wide Scan
2009	Member, Special Emphasis Challenge Grant Panel Review Group
2011	Chair, Special Emphasis Panel ZDE1 VH (19), Teleconference Review of U01 and R34 Applications
2012	Chair, Special Emphasis Panel ZDE1 JH (08), Teleconference Review of R34 Applications
2012	Member, Special Emphasis Panel ZDE1VH (04) 2013/0, Teleconference Review of R34 applications
2012	Member, Special Emphasis Panel ZRG1 DIG-A (50) R Meeting for the review of NARCH VII applications
2013	Member, Special Emphasis Panel ZDE1 MH 10 (10) Teleconference Review of R34 and U01 Applications
2014	Member, NIH Director's Transformative Research Award Initiative ZRG1- BCMB-A 51 R, STAGE 2 Mail Reviewer
2016	Member, NIH ZRG1 MOSS-K (11) Special Emphasis Panel Small Business: Oral, Dental and Craniofacial Sciences

2017	Invited Temporary Member, Oral, Dental, and Craniofacial Sciences (ODCS) Study Section
2017	Invited Reviewer NIH ZRG1 MOSS D10 Panel Small Business Grants (Orthopedic, Skeletal Muscle, and Oral Sciences)
Reviewer. Aae	ncy for Healthcare Research and Quality (AHRQ)
2002	Invited Temporary Member, Healthcare Technology and Decision Sciences (HCTDS) Standing Study Section
Reviewer, Hea	Ith Research Council of New Zealand
2003	Invited Referee
	Hospital for Sick Children Foundation, Toronto, Canada
2003	Invited Reviewer
<u>Reviewer, Mec</u> 2004	lical Research Council, United Kingdom External Referee
<u>Reviewer, India</u> 2010	ana CTSI Young Investigator Basic Science Award Reviewer
Reviewer, Isra	el Binational Science Foundation
2012	Reviewer
Contributions t	o Professional Organizations
1981 - 1983	ADA Health Foundation Institute Food, Nutrition and Dental Health Program, Plaque Resource
	Group
1985-	Member of the American Association for Dental Research (AADR) National Affairs Committee Cohorts
1988	Scientific Program Chairman, Winter Meeting of the Rochester Chapter of the AADR
1989	Co-chairman, Cariology Session - Demineralization and Remineralization, IADR Meeting.
1990	Poster Summarizer, Cariology Session - Plaque Bacterial Studies, IADR Meeting
1991	Chairman, Cariology Session - Plaque Metabolism and Enamel Surface Chemistry, IADR Meeting
1992-2001	Scientific Advisor for the American Dental Association Council on Scientific Affairs
1992-1995	Secretary/Treasurer - Cariology Research Group of the IADR
1992-1994	Councilor - Rochester Section of the AADR
1993-1996	President - Rochester Section of the AADR
1994	Chairman, Poster Discussion Session: Tooth Hard Tissues and Re/Demineralization <i>In situ</i> . ORCA Congress, Cork, Ireland.
1995	Program Chair - Cariology Group, AADR Annual Meeting, San Antonio, TX
1995-1996	Councilor - Cariology Research Group of the IADR
1996	Session Chair - Cariology Research Group, <i>Streptococcus mutans</i> , Plaque Composition, IADR
	Annual Meeting, San Francisco, CA
1996-1997	President - Cariology Research Group of the IADR
1996	Member of the IADR E.W. Borrow Memorial Award Committee
1998-1999	Program Chair - Cariology Group, AADR Annual Meeting, Minneapolis MN
1998-1999	Program Chair - Cariology Group, IADR Annual Meeting, Nice, France
1999-2001 2001	Elected Member European Organization for Caries Research (ORCA) Advisory Board Chairman, Poster Discussion Session: Clinical and Intervention Studies. ORCA Congress,
2001	Graz, Austria
2001-2005	Elected Council Member, Council on Scientific Affairs, American Dental Association
2001	Reviewer of abstracts for the Cariology Research Group Program, IADR 2002 Meeting
2001	Reviewer of abstracts for the Cariology Research Group Program, IADR 2002 Meeting
2001-2002	Member of the ORCA Summer School and Saturday Afternoon Symposium Planning Committee
2002	Session Chair - Cariology Research Group, Fluoride Treatments, Fluorosis, IADR/AADR
2002-2005	Annual Meeting, San Diego, CA.
2002-2003	Delegate, International Standards Organization, ISO 106, Working Group 7, representative for ADA Council on Scientific Affairs

2003	Moderator, Workshop On the Safety of Tooth Bleaching Products, Sponsored by the ADA Council on Scientific Affairs
2003 2003 2003-2004 2004	Councilor – AADR Cariology Research Group Chapter Reviewer Maynard Hine Award, Indiana Section of the AADR Vice-Chair, Council of Scientific Affairs, American Dental Association Member, Selection Committee, ADA 2004 Norton M. Ross Award for Excellence in Clinical Research
2004-2005 2004-2005 2005	Chair, Council on Scientific Affairs, American Dental Association Member, ORCA Congress 2005 Steering Committee Moderator - Norton M. Ross and ADA Gold Medal Award Winners: Clinical Relevance of Current Oral Health Research. ADA Annual Session, Philadelphia, PA
2005-2006 2006	Member, ADA Expert Panel on Professionally Applied Topical Fluoride, Chicago, IL Volunteer Grand Awards Judge for Medicine and Health Sciences, Intel International Science and Engineering Fair, Indianapolis, IN
2006-2008	Member, ADA Caries Risk Assessment Workgroup, Council on Dental Practice, Council on Scientific Affairs
2006- 2007-2009 2008- 2009 2009-2013 2010-2016 2014-2015 2014-2015 2015-2016 2015-2016 2023	Delegate, International Standards Organization, ISO 106, Working Group 7 Member, IADR GlaxoSmithKline Innovation in Oral Care Awards 2008 Review Committee Scientific Advisor for the American Dental Association Council on Scientific Affairs Session Chair – Cariology Research Group, Dental Erosion, IADR/AADR Meeting, Miami, FL Mentor, American College of Dentistry Ethic Dilemmas 3 rd year dental students Member, NIDCR CTSA Dental Research Working Group Member, Indiana Dental Association Drinks Destroy Teeth Campaign Committee Member, ADA Choosing Wisely Committee Contributor and Reviewer, FDI Oral Health Atlas second edition: Tooth decay and Caries Member, Academy of General Dentistry's (AGD) Acid Erosion Guidelines Task Force Consultant, World Dental Federation for the FDI/Colgate Caries Prevention Partnership Member, Selection Committee for the ADA 2023 Norton M. Ross Award or Excellence in Clinical Research
2023-	Member, IADR Distinguished Scientist Award Committee for the 2024 William H. Bowen Research in Dental Caries Award

UNIVERSITY SERVICE: List committee, administrative, and other University service during the past 20 years.

University of Rochester

1999	Member, Curriculum Committee, Eastman Department of Dentistry, University of Rochester
1999	Chairman, Evidence Based Practice Task Force, Eastman Department of Dentistry, University of Rochester
1996	Member of the Eastman Dental Center/University of Rochester Dental Management Group
1999	Chairman, Clinical Research Advisory Committee, Eastman Department of Dentistry, University of Rochester
1999	Member, Clinical Sciences Research Center Workgroup, University of Rochester Medical Center
1999	Member, Clinical Chiefs Advisory Committee, Eastman Department of Dentistry, University of Rochester
1999	Member, Appointment, Reappointment, Promotion and Tenure Committee, Eastman Department of Dentistry, University of Rochester
1999	Member, Translational Research Search Committee, Eastman Department of Dentistry, University of Rochester
Indiana Univer	sity
1000 0010	

1999-2013	Mamber Executive Committee Indiana University School of Deptietry
1999-2013	Member, Executive Committee, Indiana University School of Dentistry
1999-	Member, IUSD Faculty Council
1999-2013	Member, IUSD Chairs Planning Group
1999-2017	Member, Research Day Planning Committee, IUSD
1999-2001	Member, Curriculum/Assessment Committee, IUSD

2000	Chair, Search & Screen Committee, Assistant Professor position, Dept. Preventive and Community Dentistry
2000	Chair, Search & Screen Committee, Assistant Professor position, Dept. Preventive and Community Dentistry
2000-	Member, IUSD Research Committee
2001-2008	Member, Tenure and Promotion Committee, Indiana University School of Dentistry
2001-2003	Member, IUPUI Faculty Council
2001-2003	Chair, Search & Screen Committee, Department of Oral Biology Chair position
2001	Chair, Search & Screen Committee, Associate Professor position, Dept. Preventive and
	Community Dentistry
2002	Chair, Search & Screen Committee, Assistant Professor position, Dept. Preventive and
	Community Dentistry
2002-2013	Chair, IUSD Research Committee
2002-2003	Member, Biostatistics Task Force, Indiana University School of Medicine
2002-2013	Member, Council of Associate Deans for Research, IUPUI
2002-2013	Member, IUSD Administrative Advisory Group
2003-2013	Member, Council of Associate Deans for Research, IUPUI
2003-2010	Member, Biostatistics Advisory Committee, Indiana University School of Medicine
2003-2004	Member, Animal Lab Task Force, Indiana University School of Medicine
2003-2005	Member, ORCA 2005 Steering Committee Meeting
2004-2005	Member, IU Future Research Space Working Group (IUPUI Campus)
2005	Chair, Search & Screen Committee, Associate/Professor position, Dept. Preventive and
2005-2006	Community Dentistry
2005-2000	Member, Accreditation 2006 Self-Study Standard 1 - Institutional Effectiveness Ad Hoc Committee
2005-2006	Administrative Oversight, Accreditation 2006 Self-Study Standard 6 - Research Program
2003-2000	Administrative Oversignt, Accreditation 2000 Sell-Study Standard 9 - Research Hogram
2006-2007	Member, New Indiana Continuing Education Advisory Committee, Indiana University School of
2000 2001	Dentistry/Indiana Dental Association.
2007	Member, Indiana Clinical and Translational Sciences Application (CTSA) Core Work Group
2007-2008	Member, Search Committee for the IUPUI Vice Chancellor for Research
2007	Co-Chair, IUPUI United Way Key Club
2007	Member, Indiana University Task Force for Research Ethics, Education and Policy
2008-	Member, IUPUI Conflict of Interest Committee
2008-2009	Member, Executive Committee, IUPUI United Way Campaign
2008	Co-chair, Key Club of IUPUI United Way Campaign
2008-2009	Member, Search Committee for the Executive Director of Research Ethics, Education, and
	Policy position in the IU Office of the Vice President for Research
2009	Chair, Key Club of IUPUI United Way Campaign
2010-2014	Co-chair, IUPUI Conflict of Interest Committee
2010	Member, IUSD Strategic Planning Working Group
2011-2013	Member, IUSD DDS Accreditation 2013 Steering Committee
2011-2013	Chair, IUSD DDS Accreditation 2013, Standard 6 (Research) ad hoc Committee
2012-2013	Member, IUPUI Five year review of the IUPUI VC for Research ad hoc Committee
2012-2018	Member, Indiana University Quality Assurance Oversight Committee
2013-2014	Member, IUPUI Innovation & Discovery Task Force
2013-2014	Member, IUPUI Task Force on Sustainability of Research Centers
2013	Member, IU Conflict of Interest-Institutional Review Board Working Subcommittee
2014	Facilitator, Roundtable Discussion on The IUPUI Grand Challenge Initiative (Public Health &
	Medicine), IUPUI Research Day
2015-2017	Member At-Large, IUPUI Faculty Council
2015-	Member, IUSD Promotion and Tenure Committee
2018-2019	Member, Indiana University Office Clinical Research Executive Steering Committee
2020-	Interviewer, DDS Candidates for IUSD Admissions Committee
2023	Member, IUSD Alumni Association Distinguished Research Faculty Award Committee

OTHER PROFESSIONAL ACTIVITIES

International A	Activities
1999	Workshop Session Chair – Modern Methods for Assessing Cariogenicity and Erosion of
	Foods. Sponsored by the Commonwealth Dental Association, British Dental Association
	and Leeds University Dental Institute. Hertfordshire, UK.
2000	Invited by Dr. Youichi lijima of the Department of Preventive Dentistry at Nagasaki University to
	participate as a cooperative researcher with Japanese scientists on the project "Establishment
	of the Standardized Assessment of Low, Non-Cariogenic Foods and Its Application and
	Popularization". The Japan Foundation for Emergency Medicine funded the two-week visit to
2002	Japan, through a program for the Invitation of Foreign Scientists to Japanese Institutes. Invited attendee at the International Consensus Workshop on Caries Clinical Trials, Glasgow,
2002	Scotland.
2002	Invited participant, Modern Caries Criteria Development Workshop, sponsored by the Dental
2002	Health Services Research Unit, University of Dundee, Dundee, Scotland.
2002	Invited participant in the 2 nd International Caries Detection and Assessment System Workshop,
	sponsored by the University of Michigan School of Dentistry, University of Michigan, Ann Arbor,
	MI.
2003	Organizer and participant, 3rd International Caries Detection and Assessment System
	Workshop, Indiana University School of Dentistry, Indianapolis, IN.
2004	Invited participant, International Standards Organization Meeting, ISO 106, Working Group 7,
2004	in Chiang Mai, Thailand.
2004	Invited participant, 4 th International Caries Detection and Assessment System Workshop, sponsored by Department of Cariology, University of Copenhagen, Bornholm, Denmark.
2005	Invited Participant International Standards Organization Meeting, ISO 106, Working Group 7, in
2003	Rome, Italy
2006	Invited participant, 5 th International Caries Detection and Assessment System Workshop,
	sponsored by the Dental Health Services Research Unit, University of Dundee, Dundee,
	Scotland.
2007	Invited participant, 6th International Caries Detection and Assessment System Workshop,
	sponsored by the Department of Cariology and Endodontics, University of Copenhagen,
	Helsingør, Denmark.
2008	Invited participant, 7 th International Caries Detection and Assessment System Workshop,
2009	Bogotá, Columbia. Invited participant, 8 th International Caries Detection and Assessment System Workshop,
2009	Budapest, Hungary.
2010	Invited participant, ICDAS International Workshop & Symposium on: Clinical Diagnosis &
2010	Minimally Invasive Management of Dental Caries, Kornberg School of Dentistry, Temple
	University, Philadelphia, PA.
2011	Invited participant and Working Group Facilitator at the Workshop on "Effective uses of fluoride
	in Asia" co-sponsored by WHO, FDI and IADR, Phang-nga, Thailand.
2012	Invited participant, session moderator and group leader for breakout session, Second
	International Conference on Novel Anticaries and Remineralizing Agents (ICNARA 2), Viña del
2013	Mar, Chile, SA. Invited participant and Home Care Caries Prevention Group Discussion Leader, at International
2013	Dental Conference on "Caries Control throughout life in Asia". Organized by Dental Innovation
	Foundation under Royal Patron, Ministry of Public Health and the Dental Association of
	Thailand. International Co-hosts WHO, IADR and FDI, Krabi, Thailand.
2013	Invited participant, Johnson and Johnson European Advisory Board Meeting, London, England,
	UK
2014	Moderator, Unilever Oral Care Symposium "Erosion – An Everyday Challenge. IADR General
	Session, Cape Town, South Africa.
2014	Chair, Johnson & Johnson Asia Pacific Advisory Board, Hong Kong, China
2015	Invited participant, ORCA Workshop on Methodology for Determination of Potentially Available
	Fluoride in Toothpastes, sponsored by the European Organization for Caries Research (ORCA), Frankfurt, Germany.
2015	Invited attendee, The Occasion of the Retirement of JM (Bob) Ten Cate Symposium, Future
_0.0	and Past of Preventive Dentistry, ACTA Dental School, Amsterdam, The Netherlands.
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- 2015 Attended the International Caries Detection and Assessment System (ICDAS) Foundation Board Meeting, Heathrow Airport, England, UK
- 2016 Invited participant, FDI/Colgate Caries Prevention Partnership working meeting, London, UK
- 2018 Invited participant, Erosive Tooth Wear Advisory Board meeting, London, UK.
- 2019 Invited participant, Erosive Tooth Wear Advisory Board Workshop, London, UK, Attended by Webex.
- 2020 Invited participant, Erosive Tooth Wear Foundation Industry Advisory Panel Annual Meeting, London, UK, Attended by Webex.
- 2022 Invited participant, Economist Impact Improving Oral Health: Global Opportunity for Levelling Up expert panel meeting, sponsored by Haleon, London, UK, Attended by Zoom
- 2023 Invited participant, Erosive Tooth Wear Advisory Board Workshop, Bogota, Colombia.

Invited Conference/Workshop Participation

1990-Sept	Panelist, ADA Consensus Conference on Intraoral Models - Patient Selection,
	Appliance Design, and Substrates
1990-Sept	Discussion leader, Caries Prevention/Fluoride session, Prevention Revisited
	Symposium, 75th Anniversary of the Eastman Dental Center
1993-Jan.	Member, Working Group on "Strategies for Improving the Assessment of Fluoride Accumulation
	in Body Fluids and Tissues" at the "Methods for Assessing Fluoride Accumulation and Effects
	in the Body" Workshop, sponsored by the NIDR, Bethesda, MD.
1994-Oct.	Conference Chair - Conference on the Future Direction of Dental Postgraduate Education: A
1004 000.	Tribute to Basil G. Bibby on His 90th Birthday, Eastman Dental Center, Rochester, NY
1995-Dec	Attended 37th Annual Conference of Dental School Deans on the theme "Thriving in an
1990-Dec	Emerging Health Care Culture", Boca Raton, FL.
1996-June	
1990-Julie	Faculty - 1 st Annual International Consensus Conference on Dental Risk Assessment
1000 1.1.	and Disease Management, Toronto Canada.
1996-July	Participated in the 1996 AADS Summer Program - Career Development for Faculty
	Leaders, Ogunquit, MA.
1996-Dec	Attended 38th Annual Conference of Dental School Deans on the theme "Contemporary
	Issues in Higher Education Accreditation".
1999-April	Invited participant in the Research Diagnostic Criteria of Early Childhood Caries Workshop,
	sponsored by the National Institute of Dental and Craniofacial Research, Health Resources and
	Services Administration and Health Care Financing Administration, Bethesda, MD.
2001-March	Invited presenter at the NIH/NIDCR Consensus Development Conference on Diagnosis and
	Management of Dental Caries Throughout Life, Bethesda MD.
2001-Nov	Attended Putting Science into Practice in Dental Schools, Sponsored NIDCR, ADEA, Bethesda,
	MD.
2001-Dec	Attended the Dental, Oral and Craniofacial Technology Forum, Sponsored by NIDCR/FDA,
	Bethesda, MD.
2002-Oct	Invited participant at the NIDCR Caries Technical Advisory Panel meeting, held at NIH,
	Bethesda, MD.
2004-May	Attended, Methods for Enhancing the Efficacy of Dental/Oral Health Clinical Trials Workshop,
2001 May	Sponsored by NIDCR, Bethesda, MD.
2005-July	Member, Nyvad Criteria Breakout Group, Indiana Conference, Indianapolis, IN
2006-Sept	Attended, William M. Plater Institute on the Future of Learning, IUPUI, Indianapolis, IN
2006-Oct	Attended, NIH Conference on Understanding and Reducing Health Disparities Contributions
2000-001	from the Behavioral and Social Sciences, Bethesda, MD.
2007-Oct	Attended, NIH Regional Consultation Meetings on Peer Review, New York, NY.
	Invited participant at the ADA Caries Diagnostic Classification Conference, Chicago, IL.
2008-Aug	
2008-Oct	Attended the American Society for Microbiology 2 nd Conference on Beneficial Microbes, San
	Diego, CA
2008-Oct	Invited participant at The National Summit on Children's Oral Health: A New Era of
	Collaboration. Sponsored by the American Academy of Pediatrics, Rosemont, IL.
2009-Jan	Invited participant to Cariology Expert Colloquium to develop a bio-behavioral-social caries risk
	assessment model for children under the age of 6. New York, NY.
2009-Jan	Invited participant and focus group facilitator, Indiana Strategic Oral Health Initiative, Statewide
	Planning Council Meeting, Indianapolis, IN.

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2009-Mar	Invited participant GSK Expert Advisory Board Meeting, Weybridge, England, UK.
2009-Dec	Invited participant Colgate/GABA Expert Taskforce Meeting, Geneva, Switzerland.
2010-Apr	Co-organizer and session chair, Colgate/GABA Erosion Workshop, Zurich, Switzerland.
2010-May	Attended, University of Michigan, Ann Arbor Deans Forum, Ann Arbor, Michigan.
2010-Apr	Attended, Indiana Clinical & Translational Research Institute Annual Meeting, Indianapolis, IN.
2010-Jun	Invited participant, Johnson & Johnson Oral Care Advisory Board Meeting, Morris Plains, NJ.
2010-Aug	Invited participant, EBD Expert Panel on Non-Fluoride Caries Preventive Agents, American
	Dental Association Headquarters, Chicago, IL.
2010-Sep	Attended, NIDCR National Advisory Dental and Craniofacial Research Council, Bethesda, MD
2014-Nov	Attended, Task Force on Design and Analysis in Oral Health Research, Newark Airport, NJ
2015-Sep	Co-Leader and Moderator, FDI-Colgate Caries Prevention Partnership Summit, attended by FDI Executive Committee and Council Members, Bangkok, Thailand.
2015-Sep	Co-Leader and Moderator, FDI-Colgate Caries Prevention Partnership Workshop, attended by FDI Council Members and International experts, Bangkok, Thailand.
2018-Aug	Attended, American Academy of Cariology Board Meeting, Denver, CO.
2018-Nov	Attended, AADR Fall Focused Symposium, Advances in Precision Oral Health Research, NIH, Bethesda, MD
2019-Mar	Working Group Facilitator and Presenter – Adoption of Clinical Evidence-based Guidelines in
	Teaching and Practice, and Integration into Health Records. At the American Academy of
	Cariology Annual Meeting (Pre-ADEA) on Challenges and Opportunities for Implementation of
	Caries Management in Dental Practice and Academia, Chicago, IL
2019 Apr 03	Moderator and Presenter, US Enamel Erosion Roundtable, GSK Consumer Healthcare,
	Warren, NJ.
Invited Profess	sional Presentations
1977-Jan	Fixed vs. Removable Prosthodontics for Replacement of Missing Teeth. Rochester Dental
1911-9411	Study Club, Rochester, NY
1978-Feb	Is the Routine Prophylaxis Doing More Harm than Good? Rochester Study Club.
1981-Jan	Salivary Factors as Preventive Agents. Rochester Dental Study Club.
1981-Jan 1981-Mar	Management of the Handicapped in the Dental Situation. Monroe Community College, Dental
	Hygiene Department, Rochester, NY
1982-Feb	Etiology of Dental Caries. Veteran's Administration Hospital, Chesterfield, VA.
1982-Dec	Salivary Pellicle and Dental Caries. Dental Caries Course, Eastman Dental Center, Rochester, NY
1983-Oct	The Impact of Reduced Dental Caries on the Profession. Department of General Dentistry, Reunion, Rochester, NY
1985-Jan	Role of Diet in Dental Caries. Veteran's Administration Hospital, Chesterfield, VA.
1985-Feb	Clinical Cariology. Veteran's Administration Hospital, Chesterfield, VA.
1986-April	Preventive Oral Health Care for the Elderly. Geriatric Dentistry Workshop, Eastman Dental
	Center.
1987-April	Glucan Mediated Demineralization in vivo by S. mutans. Monthly Research Review Meeting,
1007 0-1	Eastman Dental Center
1987-Oct	Oral Retention of Topical Fluoride and Clinical Efficacy. Monthly Research Review Meeting, Eastman Dental Center.
1988-May	Studies of Caries-Associated Virulence Traits of Streptococcus mutans Using an Intraoral
1000 May	Model. Streptococcal Research Day, University of Rochester, School of Medicine and Dentistry.
1988-June	Oral Retention of Topical Fluoride and Clinical Efficacy. Lakeside Dental Study Club, Rochester,
1000 0	NY Oral Patentian of Tanical Elucrida, Danartment of Clinical Dantietry, University of Bachaster
1988-Sept	Oral Retention of Topical Fluoride. Department of Clinical Dentistry, University of Rochester.
1988-Dec	Intraoral Model to Study Dental Caries. Lakeside Dental Study Club, Rochester, NY
1989-Oct	Intraoral Studies. Monthly Research Review Meeting, Eastman Dental Center.
1989-Oct	Fluoride Retention in the Mouth and Caries Prevention. Alpha Omega Fraternity Study Club,
1000 Eab	Rochester, NY Study of Carica Acceptated Virulance of Mutana Streptococci Using an Intracral Madel
1990-Feb	Study of Caries Associated Virulence of Mutans Streptococci Using an Intraoral Model.
1000 Eab	Cariology Center Seminars, University of Rochester.
1990-Feb	Study of Caries Associated Virulence of Mutans Streptococci Using an Intraoral Model. Keynote
	speaker Winter Meeting of the Rochester Chapter of the AADR.

1990-Apr	The Use of Intraoral Models in Dental Research. International Life Sciences Institute-Nutrition
1990-June	Foundation, Washington, DC Improved Intraoral Enamel Demineralization Test Caries Model. Technological Advances in
1990-July	Intraoral Model Systems Used to Assess Cariogenicity. ADA, Chicago, IL. Latest Understanding of the Mechanism of Action of Fluoride in Caries Prevention. Dental School of the University of Francisco, Marroquin, Guatemala.
1990-Sept	Use of Intraoral Models in Caries Research. Buonocore Memorial Lecture, Apolonia Society, Rochester, NY.
1990-Sept	The Use of the Intraoral Enamel Demineralization Test in Caries Research. American Dental Association Health Foundation, Paffenbarger Center at the National Institute of Standards and Technology, Gaithersburg, MD.
1991-June	Adaptations in Dental Plaque, Cariology for the Nineties Conference. University of Rochester, Rochester, NY.
1991-Nov	The Use of Intraoral Models in Caries Research. Monthly Research Review Meeting, Eastman Dental Center.
1991-Dec	Reflections on General Dentistry. Commencement Speech for the General Dentistry Residents, Eastman Dental Center.
1992-June	Intraoral Caries Models. Symposium on Modern Concepts of Prevention. Leeds Dental Institute, University of Leeds, England.
1992-Oct	The Use of <i>in situ</i> Models to Study Basic and Applied Aspects of Dental Caries. Department of Oral Biology Seminar Series. University at Buffalo, SUNY.
1992-Nov	Evaluation of the Caries-Associated Virulence of <i>Streptococcus mutans</i> Using an Intraoral Model. Unilever Research Port Sunlight Laboratory, England.
1993-Jan	Topical Fluorides - Recommendations for Their Proper Use. Rochester Dental Study Club, Rochester, NY.
1993-Apr	Studies at the Eastman Dental Center - Comparison of Model Systems. Impact of Chewing Gum on Dental Health: Expert Review and Update. Sponsored by the Warner-Lambert Company, Summit, NJ.
1993-May	Nutrition and Dental Caries. Continuing Education course for nutritionists and dietitians. Sponsored by the Michigan Dairy Council, Ann Arbor, MI.
1993-May	Dental Caries and Their Relationship to Foods. Applied Nutrition 726 course for 3rd year dental students. The University of Michigan, School of Dentistry, Department of Cariology and General Dentistry, Ann Arbor, MI.
1993-May	Role of Diet in the Etiology and Prevention of Dental Caries. Continuing education course to practicing dentists. Sponsored by the National Dairy Council's Visiting Professorship Program, Ann Arbor, MI.
1993-Oct	Clinical Usefulness of Professionally-applied Topical Fluorides. Blue Shield Dental Advisory Board, Rochester, NY
1993-Oct	Microbiology of Dental Caries. Pediatric Dentistry Seminar Series, University of Connecticut Health Center.
1994-Mar	The Use of Intra-oral Models in Caries Research. Lunch and Learning session at the IADR/AADR, Seattle, WA.
1994-Mar	Mechanism of Dental Caries. Intra-oral Models of Caries. Oral Microbial Ecology Course to Graduate Students. School of Dental Medicine, Department of Oral Biology, University of Buffalo, SUNY, Buffalo, NY.
1994-June	<i>In situ</i> Caries Models. Conference on Clinical Aspects of De/Remineralization of Teeth. Rochester, NY.
1994-July	Biochemical and Microbiological Aspects of Dental Plaque in Occlusal Surfaces. Symposium on the Treatment of Initial Caries Lesions in Occlusal Surfaces. 10th Congresso Odontologico Riograndense, 1st Encontro Gaucho de Odonotlogia Preventia. Sponsored by the Associacao Brasileira de Odontologia, Porto Alegre, Brazil.
1994-July	12 hour course on Cariology: Etiology and Prevention. 10th Congresso Odontologico Riograndense, 1st Encontro Gaucho de Odontologia Preventia. Sponsored by the Associacao Brasileira de Odontologia, Porto Alegre, Brazil.
1995-March	An Overview of Caries Risk Assessment, and Its Potential Utility. Symposium on "Developing Clinical Teaching Methods for Caries Risk Assessment", American Association for Dental Research Meeting, San Antonio, TX.

1995-May	Update on Fluoride Use in Dentistry. General Dentistry Alumni Reunion, Eastman Dental Center, Rochester, NY.
1995-July	The Use of <i>In situ</i> Models in the Evaluation of Fluoride Dentifrice Products. Colgate Palmolive Company, Piscataway, NJ.
1995-Sept	Etiology of Dental Erosion - Extrinsic Factors. Workshop on the Etiology, Mechanisms and Implications of Dental Erosion, Sponsored by ILSI Europe and ILSI North America, Limelette, Belgium.
1995-Oct.	Use of <i>In situ</i> Models in the Study of Dental Caries. Division of Oral Biology Seminar Series, Goldman School of Graduate Dentistry, Boston University, MA.
1995-Nov	Validation of <i>In situ</i> Models Revisited! Task Force on Design and Analysis, Inc., Newark, NJ.
1996-June	The Changing Boundaries of Dental Caries Diagnosis and Intervention. First International Consensus Conference on Dental Risk Assessment and Disease Management, Toronto, Canada.
1996-Oct	Use of <i>In situ</i> Models in Caries Research. Dental Research Seminar Series, University of Medicine and Dentistry of New Jersey, Graduate School of Biomedical Sciences, Newark, NJ.
1996-Nov	Update on the Clinical Use of Fluorides in Dentistry. Incisive Seminars of Rochester, Study Club, Rochester, NY.
1997-Nov	Comparison of Decision Rules for Approving Anticaries Drug Products. Task Force on Design and Analysis, Inc., Newark, NJ.
1998-April	Overview of Dental Erosion. The Gatorade Company, Gatorade Exercise Physiology Laboratory, Barrington, IL.
1998-Nov	Aetiology of Enamel Erosion - Intrinsic and Extrinsic Factors. Council of Europe Meeting on the Topic of "Tooth Wear and Sensitivity", Bristol, England.
1999-Feb	Overview of the Factors Influencing Topical Fluoride Oral Clearance/Retention. Warner- Lambert Company, Morris Plains, NJ.
1999-May	Caries Detection Using Digital Imaging Fiber-Optic Transillumination (DIFOTI™) - A Preliminary Evaluation. 4 th Annual Indiana Conference. Early Detection of Dental Caries II, Indianapolis, IN.
1999-Sept	Overview of In situ Models Used in Dental Research. Seminar Series - Indiana Section of the
	American Association for Dental Research, Indianapolis, IN.
2000-Mar	Future Advances in Caries Research Through Clinical Investigations. IADR Symposium: An Agenda for Dental Caries Research in the 21 st Century, Washington DC.
2000-May	Overview of Research Capabilities of the Oral Health Research Institute. Warner Lambert Learning Center, Morris Plains, NJ.
2000-June	Oral Factors to Consider that Influence Restorative Treatment. 5 th Annual Indiana Conference. The Changing Practice of Restorative Dentistry, Indianapolis, IN.
2000-Oct	Erosion Research. Martin Curzon Retirement Symposium on Industrial Partnership, Research Direction and Clinical Excellence in the Millennium, Leeds, England, UK.
2000-Nov	Current Concepts in Cariology. A Fluoride and Cariology Symposium sponsored by the Indiana School of Dentistry and The Indiana State Department of Health, Indianapolis, IN.
2000-Dec	Evaluation of the Cariogenicity of Foods Using Various Model Systems. Presented at the meeting of the Advisory Board of the "Establishment of the Standardized Assessment of Low, Non-Cariogenic Foods and Its Application and Popularization" project, Center for Disease Control, Tokyo, Japan.
2000-Dec	Role of Diet in Dental Caries. Presented to 5 th Year Dental Students at Nagasaki University School of Dentistry, Nagasaki, Japan.
2000-Dec	Early Caries Detection and Management. Presented to the Faculty of Nagasaki University School of Dentistry, Nagasaki, Japan.
2001-Mar	Clinical Applications and Outcomes of Using Indicators of Risk in Caries Management. Presented at the NIH/NIDCR Consensus Development Conference on Diagnosis and Management of Dental Caries Throughout Life, Bethesda MD.
2001- June	Chewing Gum, Salivary Stimulation and Remineralization. IADR Symposium: Chewing Gum and Oral Health, Chiba, Japan.
2001-Nov	In situ Models [In light of the FDA call for data]. Presented NJ Section of AADR, Parsippany, NJ.
2002-Mar	An Overview of In situ Models for Cariogenicity Research. IADR Symposium: In situ Models for the Study of Caries and Erosion, San Diego, CA.

2002-June	New CDC Guidelines: Do You Know How to Assess Your Patient's Fluoride Needs? Co- presented with Karen M. Yoder. IUSD Center for Advanced Professional Studies, Indianapolis, IN.
2002-Sept	Mechanism of Action of Fluoride and other Trace Elements, Postgraduate Cariology Course, University of Rochester Medical Center, Rochester, NY.
2002-Nov	Overview of the Dental Caries Process; With Special Emphasis on the Role of Saliva. Presented as part of a CE course – SalivaYou Can't Do Without It. IUSD Center for Advanced Professional Studies, Indianapolis, IN.
2003-July	Sugars – the Arch Criminal? Presented at the 50 th Anniversary Congress of the European Organization of Caries Research (ORCA): Cariology in the 21 st Century, State of the Art and Future Perspectives, Konstanz, Germany.
2004-Mar	Diagnosis and Management of Dental Caries in the 21 st Century. Presented to the Pittsburgh Academy of Dentistry as a 6 hr. lecture series, Pittsburgh, PA.
2004-May	Overview of the Role of Dental Plaque Biofilms in Dental Caries. Presented at Biocomplexity VI: Complex Behavior in Unicellular Organisms, Indiana University Bloomington, Bloomington IN.
2004- July	Ethical Issues in Clinical Research. Presented at part of the Program for the ORCA Summer School on The Conduct, Interpretation and Publication of Clinical Research, Good Clinical Practice and Statistics, Marburg, Germany.
2004-Sept	The Ethical Conduct of Industry-sponsored Research. Presented as a workshop at the IUSD Fall Faculty Conference, Spencer, IN.
2004-Oct	Mechanism of Action of Fluoride, Postgraduate Cariology Course, University of Rochester Medical Center, Rochester, NY.
2004-Dec	Mineralized Tissues – The Exposed Root surface in an Ageing Population. Presented at the GSK New Horizons in Oral Care Advisory Board meeting, Philadelphia, PA.
2005-Feb	Introduction of Dentistry. Presented during Orchard School Career Day, Indianapolis, IN.
2005-Feb	Role of Fluoride in Managing Hyposalivation-induced Dental Caries. Presented at the GSK Saliva/Dry Mouth Advisory Board Meeting, Philadelphia, PA.
2005-Mar	What Does CSA Need from the ADA SCDP for the Future? Presented at the ADA Standards Committee on Dental Products/US TAG: Standards Summit for the Dental Profession meeting. Baltimore, MD.
2005-Mar	A Perspective on the Present and Future Management of Dental Caries. Presented at IADR Symposium "Examining the Role of Caries-prevention Regimens and Restorative Materials in Meeting National Health Objectives for Dental Caries", Baltimore, MD.
2005-Mar	Assessing Clinical Caries Lesion Activity - Parallel Research. Presented at the International Caries Detection and Assessment System Workshop sponsored by the National Institute of Dental and Craniofacial Research, the American Dental Association, and the International Association for Dental Research, Baltimore, MD.
2005-Mar	Diagnosis and Management of Dental Erosion. Presented at the Maynard K. Hine Scholarship Lecture Series on Non-Traditional Dental Diseases and Etiology, sponsored by the Indian Section of the American College of Dentists and IUSD, Indianapolis, IN.
2005-April	Early Caries Detection. Research Seminar Series. University of Kentucky, College of Dentistry, Lexington, KY.
2005-April	Saliva as a Protective Agent. OBI 829 Oral Biology course for 2 nd year dental students. University of Kentucky, College of Dentistry, Lexington, KY.
2005-April	Caries Risk Assessment and Prevention. OBI 829 Oral Biology course for 2 nd year dental students. University of Kentucky, College of Dentistry, Lexington, KY.
2005-May	Early Caries Detection and Management. Presented to the 3M ESPE Dental Products Division, Minneapolis, MN.
2005-June	Dentifrices, Mouthwashes, Remineralization/Caries Arrestment Strategies. Presented at the NIDR sponsored Biotechnology and Materials Research to Reduce Caries Epidemic Conference, Seattle, WA.
2005-Aug	Caries Prevention and Control for Dry Mouth Patients. Presented at the GlaxoSmithKline Symposium – Dry Mouth - Successful Management in Everyday General Dental Practice, FDI World Dental Conference, Montreal, Canada.

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2005-Aug	Erosion – Chemical and Biological Factors of Importance to the Dental Practitioner. Presented at the GlaxoSmithKline Symposium – Worn Out and Hypersensitive! A Fresh Look at Erosion
	and Abrasion, FDI World Dental Conference, Montreal, Canada.
2005-Sept	Impact of Soft Drink Consumption on Dental Health. Presented to the Indiana State Legislature,
	Indiana Health Finance Commission, Indiana State House, Indianapolis, IN.
2005-Oct	Early Caries Management. Presented at the ADA Annual Session 2005 at the Early Caries
	Diagnosis and Management Course, Philadelphia, PA.
2005-Oct	Mechanism of Action of Fluoride, Postgraduate Cariology Course, University of Rochester
2005-Nov	Medical Center, Rochester, NY. Use of Dental Sealants in the Management of Early Caries, Visiting Lecturer Series New York
2003-1100	University College of Dentistry, New York, NY.
2006-Feb	Diagnosis and Management of Dental Erosion. Presented to the West Central Dental Society,
	Lafayette, IN.
2006-June	Erosive Potential of Calcium-Containing Acidic Beverages, Gatorade Sports Science Institute
	Dental Summit, Barrington, IL.
2006-Sept	Hot Topics in Dentistry. Presented at the Retirees Breakfast, Indianapolis District Dental
2006-July	Society. Indianapolis, IN. A Perspective on the Present and Future Management of (Early) Dental Caries. Seminar
2000-5019	presented at the NIH/NIDCR, Bethesda, MD.
2006-Oct	Mechanism of Action of Fluoride, Postgraduate Cariology Course, University of Rochester
	Medical Center, Rochester, NY.
2007-Jan	Enamel Brief. Presented at the GSK Ideation Meeting. Morristown, NJ.
2007-Feb	A Perspective on the Present and Future Management of (Early) Dental Caries. Seminar
2007 Mar	presented at the UCSF School of Dentistry, San Francisco, CA.
2007-Mar	New Perspectives on Cariogenesis: Implications for Anthropological and Epidemiological Research. Presented at the 76 th Annual Meeting of the American Association of Physical
	Anthropologists - Symposium on Recent Advances in Understanding Oral Pathology: Clinical,
	Evolutionary and Prehistoric Perspectives on Sex and Status Differences.
2007-June	Assessment and Management of the High Caries Risk Patient. Presented at The John F.
	Johnston Society Refresher Course Contemporary Prosthodontics Update, Indianapolis, IN.
2007-June	A Perspective on the Present and Future Management of (Early) Dental Caries. Presented at
2007-Aug	the Forsythe Institute Thursday Seminar Series, Boston, MA. Anatomically Are the Primary Dentition More Susceptible to Erosive Tooth Wear than the
2007-Aug	Secondary Dentition. Presented at the GSK Expert Panel Meeting to Discuss Tooth Wear/
	Erosion in Children. Weybridge England UK.
2007-Oct	Mechanism of Action of Fluoride, Postgraduate Cariology Course, University of Rochester
	Medical Center, Rochester, NY.
2007-Oct	Demineralization/Remineralization of Orthodontically Treated Teeth - Indianapolis Orthodontic
2007 Oct	Study Club, Indianapolis, IN.
2007-Oct	The Use of Early Detection and Risk Assessment in the Management of Dental Caries. Indiana University School of Dentistry Continuing Education. Co-presented with Dr. A. Ferreira Zandona
	and Dr. M. Fontana, Indianapolis, IN.
2007-Nov	New Methods of Detecting Dental Caries. Presented at the University of Rochester Dentistry's
	All Alumni Reunion 2007, Lifetime Education - Lifetime Connections, Division of General
	Dentistry Session, Fort Myers, FL.
2008-Jan	Recaldent – Evidence for Clinical Activity Reactor Presentation. International Conference on
2008 Eab	Novel Anticaries and Remineralizing Agents (ICNARA), Vina del Mar, Chile.
2008-Feb	Poster on the Oral Health Research Institute presented at the IU Life Sciences/Hoosiers for Higher Education Day at the Statehouse, Indianapolis, IN.
2008-Apr	Keynote Address: Improvements in Clinical Diagnosis and Management of Caries. Presented
· · · ·	at the American Association for Dental Research Annual Meeting, Dallas, TX.
2008-May	Detection and Management of (Early) Dental Caries. Presented at the Dean's Seminar, Stony
	Brook University School of Dental Medicine, Stony Brook, NY.
2008-June	Regulation and Marketing of US Dental Products: The Case of Remineralizing Pastes.
	Presented at Brown Bag Seminar hosted by the Northwest/Alaska Center to Reduce Oral Health Disparities, University of Washington, Seattle WA.
	Dispantice, University of Washington, Geattle WA.

2008-Aug	Demineralization/Remineralization of Orthodontically Treated Teeth. Presented at the Alamo
2008-Aug	Study Group Meeting, San Antonio, TX. Diagnosis and Management of Early Dental Caries. Presented at the University of Texas Health Science Center at San Antonio Dental School Grand Rounds, San Antonio, TX.
2008-Aug	Modern Management of Caries as a Dynamic Disease Process. Keynote lecture presented at the San Antonio PBRN White Spots symposium. San Antonio, TX.
2008-Sep	Applications of <i>in situ</i> Models to the Study of Dental Erosion/Abrasion. Presented at "Recent Developments in Tooth Wear and Erosion Symposium", Pan European Federation of the International Association for Dental Research Annual, London, England.
2008-Sep	Mechanism of Action of Fluoride, Postgraduate Cariology Course, University of Rochester Medical Center, Rochester, NY.
2008-Nov	Management of Orthodontic Bracket White Spot Lesions. Sadler Orthodontics, Inc. CE presentation, Fischer, IN.
2008-Nov	Management of Early Caries Lesions. Presented at the Indianapolis District Dental Society (IDDS) President's Fall Workshop, Indianapolis, IN.
2008-Dec	Etiology and Pathogenesis of Dental Caries. Presented at the ICDAS-Group Modern Management of Dental Caries Course, Universidad El Bosque, Bogotá, Columbia.
2008-Dec	ICDAS in the Future: How It Can (Will) Improve Oral Health. Presented at the ICDAS Education and Public Health Matters Symposium, Bogotá, Columbia.
2009-Feb	Keynote address, Cariology: The Heart of Dentistry in Search of its Soul. Presented at The 2009 Clinic and Research Day, University of Illinois at Chicago, College of Dentistry, Chicago, IL.
2009-Feb	Management of Early Caries. Presented at Cariology Research Group, Special Seminar, University of Illinois at Chicago, College of Dentistry, Chicago, IL.
2009-Feb	Experimental Caries Models and Their Use in the Study of New Anticaries Technologies. Presented at Johnson & Johnson Consumer and Personal Products Worldwide Facility, Morris Plains, NJ.
2009-Mar	Defining Erosive Toothwear (Acid Erosion). Presented at the Acid Erosion in Children Roundtable Sponsored by GlaxoSmithKline, Chicago, IL.
2009-Apr	The Importance of Brushing Behavior: Effect of Brushing Time and Amount on Fluoride Performance From Dentifrices In Situ. Presented at Getting the Best from Fluoride Dentifrices: New Insights on the Importance of Behaviour and Design (GlaxoSmithKline-sponsored symposium), IADR meeting, Miami, FL.
2009-Jul	Strengths and Limitations of In situ Models for Measuring Effectiveness of Fluoride-containing Toothpastes. Presented at the ORCA Saturday Afternoon Symposium on The Effective Use of Effective Fluoride Toothpastes for Caries Control, Budapest, Hungary.
2009-Aug	Diagnosis, Risk Assessment and Management of Dental Caries and Dental Erosion. Eight-hour course presented at the meeting of O Centro Internacional de Ensino e Pesquisas Avancadas em Saude, Sao Paulo, Brazil.
2009-Aug	The Use of In situ Caries Models in Oral Microbiology. Presented at the State University of Campinas, Piracicaba Dental School, as part of their Visiting Scientists Program, Piracicaba, Brazil.
2009-Aug	Diagnosis and Management of Dental Erosion. Mini Course Presented at the State University of Campinas, Piracicaba Dental School, as part of their Visiting Scientists Program, Piracicaba, Brazil.
2009-Sep	Oral Health Management of Head & Neck Cancer Patients: Good News Bad News. Presented to the Cancer Control Group at the IU Simon Cancer Center, Indianapolis, IN.
2009-Nov	Dental Lesion of Bacterial and Non Bacterial Etiology: Dental Caries and Erosion. Eight hour course presented at the Asociación Odontológica Argentina 35 Jornadas Internacionales, Buenos Aires, Argentina.
2010-Feb	Cariology: The Heart of Dentistry in Search of its Soul. Presented at Indiana University School of Dentistry as part of the Faculty Enrichment Program.
2010-Feb	Overview of the Research Capabilities of the Oral Health Research Institute. Presented at the Procter and Gamble Health Care Research Center, Mason, OH.
2010- Mar	Keynote Address: Demineralization/Remineralization of Orthodontically Treated Teeth. Presented at Northwest Practice-based Research Collaborative in Evidence-based Dentistry Fifth Annual Meeting, Seattle, WA.

2010-Apr	Issues for the Patient Caries Risk Assessment, Behaviors and Perspectives. Presented at the ICDAS International Workshop & Symposium on: Clinical Diagnosis & Minimally Invasive Management of Dental Caries, Kornberg School of Dentistry, Temple University, Philadelphia, PA.
2010-May	Demineralization/Remineralization of Orthodontically-Treated Teeth. Presented at the 110th Annual Session American Association of Orthodontists, Washington, DC.
2010-Jul	The Role of Fluoride in Mouthrinses. Presented at the Johnson & Johnson Advisory Panel Meeting on Post-brushing Rinsing Behavior, Barcelona, Spain.
2010-Oct	Understanding the Biochemistry of Dental Erosion. Presented at the 1 st International Meeting "Erosion 2010", Bauru School of Dentistry-USP-Brazil.
2010-Oct	The Impact of Behavioral Factors and Systemic Diseases on Prevalence of Dental Erosion. Presented at the 1 st International Meeting "Erosion 2010", Bauru School of Dentistry-USP- Brazil.
2010-Nov	Mechanism of Action of Fluoride. Postgraduate Cariology Course, University of Rochester Medical Center, Rochester, NY.
2011-Mar	Scientific Rationale of Fluoride Mouthrinse in Caries Prevention. Presented at the Expert Panel Meeting - Fluoride Mouthrinse for Superior Oral Health, Phang-nga, Thailand.
2011-Mar	Scientific Rationale of Fluoride in Caries Control. Presented at the Workshop on "Effective uses of fluoride in Asia" co-sponsored by WHO, FDI and IADR, Phang-nga, Thailand.
2011-Mar	Modern Management of Caries as a Dynamic Disease Process. Presented at Faculty of Dentistry, Mahidol University, Bangkok, Thailand.
2011-Mar	Modern Management of Caries as a Dynamic Disease Process. Presented at Faculty of Dentistry, Chulalongkorn University, Bangkok, Thailand.
2011-Mar	Modern Management of Caries as a Dynamic Disease Process. Presented at a Meeting of the Singapore Dental Association, Singapore.
2011-Mar	Modern Management of Caries as a Dynamic Disease Process. Presented at University Malaya, Kuala Lumpur, Malaysia.
2011-Mar	A Perspective on the Present and Future Management of (Early) Dental Caries. Presented at University Kebangsaan Malaysia, Kuala Lumpur, Malaysia.
2011-Jul	In situ Models: The Bridge between Clinical Dentistry and the Research Laboratory. Presented at the 2 nd Worldwide Universities Network Symposium in Oral Health Sciences 'Translational Research in Dentistry', University of Leeds, England, UK.
2011-Nov	Mechanism of Action of Fluoride, Postgraduate Cariology Course, University of Rochester Medical Center, Rochester, NY.
2011-Nov	Enamel Remineralization: A Realistic Goal for Product Development? Presented at the Task Force on Design and Analysis in Oral Health Research meeting, Newark, NJ
2012-Jan	Effectiveness and Safety of Water Fluoridation. Presented at a meeting of the Town Council, Plainfield, IN.
2012-Mar	A Multi-Center Clinical Study to Evaluate the Safety and Efficacy of the Use of Ozone for the Management of Fissure Caries. Presented at the Non-fluoride Approaches to Caries Prevention AADR Symposium. Tampa, FL.
2012-May	Overview Caries Process and the New Models for Management of Caries. Presented at the Caries Management Pathways (CMP) - A Roadmap for Clinicians and Educators Conference, Hosted by Temple University Maurice H. Kornberg School of Dentistry, Philadelphia, PA
2012-Jul	Introduction and Overview of Caries Management. Presented on the Indiana University School of Dentistry Alumni Alaskan Cruise
2012-Jul	Fundamentals of Dental Caries. Presented on the Indiana University School of Dentistry Alumni Alaskan Cruise
2012-Jul	Caries Diagnosis: Caries Lesion Detection and Assessment. Presented on the Indiana University School of Dentistry Alumni Alaskan Cruise
2012-Jul	Caries Risk Assessment. Presented on the Indiana University School of Dentistry Alumni Alaskan Cruise
2012-Jul	Caries Preventive Measures: Fluoride. Presented on the Indiana University School of Dentistry Alumni Alaskan Cruise
2012-Jul	Caries Preventive Measures: Dental Sealants, Plaque Control, Dietary Measures, Non-Fluoride Remineralizing Agents. Presented on the Indiana University School of Dentistry Alumni Alaskan Cruise

2012-Jul	Caries Management – Treatment Planning. Presented on the Indiana University School of Dentistry Alumni Alaskan Cruise
2012-Jul	Diagnosis and Management of Dental Erosion. Presented on the Indiana University School of Dentistry Alumni Alaskan Cruise
2012-Oct	Update on Caries Management. Presented at the Eastman Institute for Oral Health Scientific Program during the Alumni & Friends Reunion, Rochester, NY.
2012-Oct	Fluoride and Prevention of Dental Caries. Postgraduate Cariology Course ORB 580, University of Rochester Medical Center, Rochester, NY.
2012-Oct	Evidence-Based Caries Prevention Strategies: Fluoride, Sealants, Xylitol and Chlorhexidine. CE course co-presented with Dr. Frantsve Hawley at the ADA Annual Session, San Francisco, CA.
2013-Jan	Evidence Based Caries Management. Mini-CE Course presented to the Isaac Knapp District Dental Society, Fort Wayne, IN.
2013-Apr	Dental Caries and the Medically Compromised Patient. Presented at the Curacao 1e Tandheelkunde Congres "Medisch- Tandheelkundige interacties" to medical and dental healthcare providers, Curacao.
2013-Apr	Management of Dental Caries. Presented at the Curacao 1e Tandheelkunde Congres "Medisch- Tandheelkundige interacties" to medical and dental healthcare providers, Curacao.
2013-May	Evidence-based Management of Early Carious Lesions. Half-day presentation to the University of Missouri-Kansas City School of Dentistry faculty, Kansas City, MO.
2013-May	Synergyx Caries Risk Software. Presented to executive members of the American Academy of Pediatric Dentistry at their Annual Meeting, Orlando, FL.
2013-Sep	Future Scientific Needs and Technologies for Enamel Health: Improving Anticaries/erosion Benefits. Presented at the Unilever Enamel Mineralisation Workshop, Shanghai, China
2013-Oct	Diagnosis and Management of Dental Erosion. Co-presented as a CE Course with Dr. Anderson Hara as part of the IUSD CE Program Faculty Focus Series, Indianapolis, IN.
2013-Oct	Fluoride and Prevention of Dental Caries. Postgraduate Cariology Course ORB 580, University of Rochester Medical Center, Rochester, NY.
2013-Oct	Fluoride in Dentistry. Presented as a CE Course to dentists and dental hygienists, Sakura, Chiba Prefecture, Japan.
2013-Oct	Modern Management of Dental Caries. Presented at the Japan Health Care Dental Association "Health Care Meeting 2013" meeting, Tokyo, Japan.
2013-Oct	Low vs. High Concentration Fluoride. Presented to faculty, students and industry representatives at Tsurumi University School of Dental Medicine, Yokohama, Japan.
2013-Nov	Evidence-Based Caries Preventive Strategies. CE course co-presented with Dr. Julie Frantsve Hawley at the ADA Annual Meeting, New Orleans, LA.
2013-Nov	Fluoride Mouthrinse in Caries Control throughout Life. Presented at an Expert Panel Meeting involving 20 Asian countries sponsored by Johnson & Johnson, Krabi, Thailand.
2013-Nov	Cariology Research Update. Presented at International Dental Conference on "Caries Control throughout life in Asia". Organized by Dental Innovation Foundation under Royal Patron, Ministry of Public Health and the Dental Association of Thailand. International Co-hosts WHO, IADR and FDI, Krabi, Thailand.
2013-Nov	Clinical Use of fluoride in Caries Prevention - an Update. Presented at the Taipei Dental Association Annual Meeting. Taipei, Taiwan.
2013-Nov	Clinical Use of fluoride in Caries Prevention - an Update. Presented to faculty and students at the Taiwan National Defense Medical Center, Taipei, Taiwan.
2013-Nov	Advances in Science and Technology of Caries Prevention. Presented at the "2013 Thailand International Dental Congress: Celebrating Modern Dentistry in the Land of Smile", Bangkok, Thailand.
2013-Nov	Fluoride Mouthrinses in Caries Prevention: Past, Current and Future. Presented at Lunch Symposium at the "2013 Thailand International Dental Congress: Celebrating Modern Dentistry in the Land of Smile" Sponsored by Johnson and Johnson, Bangkok, Thailand.
2014-Aug	Modern Management of Caries as a Dynamic Disease Process. Presented at the Hong Kong International Dental Expo And Symposium, Hong Kong.
2014-Aug	Fluoride Mouthrinse in Caries Prevention – Past, Current and Future. Presented to local dental professionals at the J&J Caries & Fluoride Symposium, Hong Kong.

2014-Aug Cariology: The Heart of Dentistry In Search of Its Soul. Presented at the The Biennial Conference of the Pediatric Dentistry Association of Asia, Singapore.

2014-Aug Symposium Summary. Pediatric Dentistry Association of Asia Symposium "Caries Preventive Program in Asia- from Infancy to Adolescence", Singapore.

2014-Aug Modern Management of Caries as a Dynamic Process Disease. Presented at the Faculty of Dentistry, National University of Singapore, Singapore

- 2014-Aug Modern Management of Caries as a Dynamic Process Disease. Lecture series sponsored by Johnson & Johnson Pacific presented to dental professionals in Melbourne, Sydney and Brisbane, Australia.
- 2014-Aug Evidence-Based Caries Prevention Strategies. Presented to faculty from Filipino Dental Schools as part of a Development Program for the International College of Dentists. Manila, Philippines.
- 2014-Sep Evidence-Based Caries Prevention Strategies. Presented to dental professionals at the Philippine Pediatric Dental Society's Quarterly Seminar, Manila, Philippines.
- 2014-Sep Evidence-based Management of Early Carious Lesions. Presented at the FDI Annual World Dental Congress, NCR New Delhi, India.
- 2014-Sep Caries Prevention: Putting It All Together. Presented at Year in Review on Prevention Symposium at the FDI Annual World Dental Congress, NCR New Delhi, India.

 2014-Sep
 Science/Evidence-based Diagnosis and Management of Dental Caries. Presented at the International Congress of Pediatric Dentistry, Universidad de Guadalajara, Guadalajara Mexico
 2014-Sep
 Diagnosis and Management of Dental Erosion. Presented at the International Congress of

Pediatric Dentistry, Universidad de Guadalajara, Guadalajara Mexico

- 2014-Oct Fluoride and Prevention of Dental Caries. Postgraduate Cariology Course ORB 580, University of Rochester Medical Center, Rochester, NY.
- 2015-Apr 13 Regulatory and Commercialization Perspectives, Presented at the NIDCR Workshop on Remineralization: Current State of Science and Future Directions, Bethesda, MD.
- 2015-Sep 21 Aetiology, Pathogenesis and Risk Assessment Science informing Practice. Presented at the FDI-Colgate Caries Prevention Partnership Summit to FDI Executive Leadership, Bangkok, Thailand.
- 2015-Sep 25 Way to Interpret Research Data to Promote Health Education: A New Meta-analysis. Presented at FDI World Dental Congress Symposium on Promoting Self Care through Evidence, Bangkok, Thailand.
- 2015-Sep 25 Self-Care for Optimal Oral Health: Review of Evidence. Presented at FDI World Dental Congress Symposium on Promoting Self Care through Evidence, Bangkok, Thailand.
- 2015-Oct 08 Modern Management of Caries as a Dynamic Disease Process. Presented at the Research Seminar Series, School of Dental Medicine University of Pennsylvania, Philadelphia, PA.
- 2015-Oct 12 Fluoride Mechanism of Action. Postgraduate Cariology Course ORB 580, Eastman Institute for Oral Health, University of Rochester, Rochester, NY.
- 2015-Dec 09 Oral Health Management of Head & Neck Cancer Patients. Presented at the Cancer Control meeting, IU Health Melvin and Bren Simon Cancer Center, Indianapolis, IN.
- 2016 Feb 02 Does Our Current Approach to Caries Prevention and Control Strategies Integrate a Sufficiently Broad Range of Evidence? Perspective from Cariology. Presented at the Alliance for a Cavity-Free Future Global Symposium 2016, held in conjunction with the 20th UAE International Dental Conference and Arab Dental Exhibition, Dubai UAE.
- 2016 Apr 04 Strength of Dental Caries Evidence Used to Formulate Recommendations for Dietary Sugars Intake. Presented at the American Society for Nutrition Experimental Biology Meeting Symposium Health Recommendations for Dietary Sugars: Why Can't We All Agree, San Diego, CA.
- 2016 Jun 15 Management of Caries as a Dynamic Disease Process. Webinar presented through the Colgate Oral Health Network website. <u>http://www.colgateoralhealthnetwork.com/webinar/management-of-caries-as-a-dynamic-disease-process/</u>
- 2016 Sep 26 Fluoride and Prevention of Dental Caries. Postgraduate Cariology Course ORB 580, Eastman Institute for Oral Health, University of Rochester, Rochester, NY.
- 2017 Apr 01 Oral Manifestations of Sjögren's and their Management. Presented at the Sjögren's Syndrome Foundation's 2017 National Patient Conference, Cherry Hill, New Jersey.
- 2017 Apr 06 Cariology the Heart of Dentistry in Search for Its Soul. Keynote Address Presented at VCU School of Dentistry Research Day, Richmond, VA.

2017 Jun 09 Disruptive Innovations Necessary to Change How We Manage Dental Caries. Presented at The Future Starts Now Scientific Symposium, Caries Prevention & Community Health Session. Eastman Institute for Oral Health Centennial Celebration, Rochester, NY. 2017 Jun 09 The Use of Caries Detection Devices. Presented at The Future Starts Now Scientific Symposium, New Devices, Technology and Medications Session, Eastman Institute for Oral Health Centennial Celebration, Rochester, NY. 2017 Jul 27 Oral Manifestations of Sjögren's and their Management. Presentation to Sjogren's Support Group, Indianapolis, IN Caries and Dental Erosion: Transdisciplinary Approach. CROSP Lecture at Johnson & Johnson 2017 Sep 21 offices to dental health care professionals. Sao Paulo, Brazil. 2017 Sep 22 Caries, Dental Erosion and Sensitivity Models of Study. Lecture at Johnson & Johnson offices to their local scientists and several global scientists through WebEx. Sao Jose dos Campos, Brazil. 2017 Oct 02 Fluoride Mechanism of Action. Postgraduate Cariology Course ORB 580, Eastman Institute for Oral Health, University of Rochester, Rochester, NY. 2017 Oct 18 Management of Dental Caries throughout Life - Part I. Keynote address at the Inaugural Meeting of the American Academy of Cariology held in conjunction with the 2017 ADA Annual Meeting, Atlanta, GA. 2017 Oct 18 AAC Advocacy & Support Pillar. Presented at the Inaugural Meeting of the American Academy of Cariology held in conjunction with the 2017 ADA Annual Meeting, Atlanta, GA. 2017 Nov 17 Management of Dental Caries throughout Life. Video conference presentation to Pediatric Dentistry Residents Disease Management and Risk Assessment course UCLA School of Dentistry. 2018 Sep 07 Early Caries Management Using Remineralization Strategies. Presented at the FDI World Dental Federation Dental Congress 2018, Buenos Aires, Argentina. 2018 Sep 21 Caries Risk Assessment and Prevention. Presented at the National Dental Practice Based Research Network Northeast Region Annual Practitioners Meeting, Rochester, NY. 2018 Oct 01 Fluoride Mechanism of Action. Postgraduate Cariology Course ORB 580, Eastman Institute for Oral Health, University of Rochester, Rochester, NY. ICDAS Training Course. West China College of Stomatology, Sichuan University, Chengdu, 2019 Feb 20 China. Prevention/Management Strategies for Acid Erosion. Presented at the GSK Industry Lunch 2019 Sep 05 Symposium: Acid Erosion: Fact or Fiction, ADA FDI World Dental Congress, San Francisco, CA. 2019 Oct 21 Fluoride Mechanism of Action. Postgraduate Cariology Course ORB 580, Eastman Institute for Oral Health, University of Rochester, Rochester, NY. Importance of Non-invasive Caries Disease Management in the Age of COVID-19. Joseph L. 2020 May 14 Rabinowitz Memorial Lecture at Penn Dental Medicine Research Day. Online presentation using BlueJeans Events. www.dental.upenn.edu/2020rabinowitzlecture 2020 Oct 04 Fluoride Mechanism of Action. Postgraduate Cariology Course ORB 580, Eastman Institute for Oral Health, University of Rochester, Rochester, NY, 2020 Oct 10 Evidence and Research Needs. Presented Online at the Caries Management for Vulnerable Individuals: Focus on the Disabled & the Elderly Webinar. https://aacariology.org/welcome/ https://aacariology.org/wp-content/uploads/2021/01/Dom-Zero-AAC Evidence-and-Research-Needs-s.pdf 2021 Apr 10 Importance of Non-invasive Caries Disease Management in the Age of COVID-19. Online presentation to the Philippine Dental Association. 2021 Sep 23 Clinical Caries Research Studies - Challenges and Opportunities. Presented at The Cutting Edge of Clinical Research in Oral Health - A Symposium in Honor of Distinguished Service Professor Dr. Sebastian Ciancio, Buffalo, NY 2021 Oct 11 Fluoride Mechanism of Action. Postgraduate Cariology Course ORB 580, Eastman Institute for Oral Health, Online presentation. 2022 May 25 Evidence and Research Needs. Presented at the 6th Annual American Academy of Cariology Conference: Caries Prevention in a Modern World - Infants, Children, Adolescents & Special Health Care Needs Population, San Diego, CA.

- 2022 Jun 30 Yngve Ericsson Prize Lecture Caries Prevention and the Pursuit of Quality. Presented at the ORCA Congress, Cagliari, Sardinia, Italy.
- 2022 Sep 16 Callahan Memorial Award Acceptance Speech. Presented at Callahan Celebration of Excellence, held in conjunction with the 156th Ohio Dental Association Annual Session, Columbus, OH.
- 2022 Oct 31 Colgate Arginine Caries Study. Presented at Indianapolis Public School FACE facilitators Professional Development meeting, Broad Ripple High School, Indianapolis, IN
- 2022 Nov 07 Fluoride and Prevention of Dental Caries Innovative. Presented in the Fundamentals of Dental Caries Course DEN 426, Eastman Institute for Oral Health, University of Rochester, Online presentation.
- 2023 Jun 06 High Caries Risk Adult Case. Presented in the Cariology Course at Temple University Kornberg School of Dentistry, Philadelphia, PA.
- 2023 Nov 20 Fluoride and Prevention of Dental Caries Innovative. Presented in the Fundamentals of Dental Caries Course DEN 426, Eastman Institute for Oral Health, University of Rochester, Online presentation.
- 2023 Dec 2 The Importance of Caries Risk Assessment to Define Individualized Treatment. Presented as part of the Caries Control How to succeed in the clinical practice? Webinar organized by Sebastian Lara.

GRANTS AND FELLOWSHIPS:

Federal/State/Foundation Research Grant Support

1.	Sponsor: Title: P.I.: April 1, 1979 - J NIDR 1 F32 DE Total Award: \$	05193
2.	Sponsor: Title: P.I.: 1980-1981 Easter Seal Soc Alling and Cory Total Award: \$3	r - \$2,500
3.	Sponsor: Title: P.I.: December 1, 19 Total Award: \$	Virginia Commonwealth University Grants-In-Aid Electrophoretic Characterization of Pellicles Formed on Enamel Pretreated with Topical Fluoride. D. T. Zero 981 - November 31, 1982 4,965
4.	Sponsor: Title: P.I.: January 1, 1986 NIDR 1 R23 DE Total Award: \$	
5.	Sponsor: Title: P.I.: April 1, 1987 - [National Institutes of Health/National Institute of Dental Research Glucan-Mediated Intraoral Demineralization by <i>S. mutans</i> D. T. Zero December 31, 1990, Supplemented Award

NIDR 1 R29 DEO7793 Total Award: \$334,132

- Sponsor: National Institutes of Health/National Institute of Dental Research Title: Oral Retention of Topical Fluoride and Clinical Efficacy P.I.: D. T. Zero July 1, 1988 - June 30, 1991 NIDR 1 RO1 DEO8577 Total Award: \$452,590
- 7. Sponsor: National Institutes of Health/National Institute of Dental Research

 Title: Concomitant Analysis of Carbohydrate Retention and Organic Acid Profiles of Plaque Samples by HPLC
 P.I.: D. T. Zero
 April 1989 March 31, 1990
 Biomedical Research Support Grant RR-05548
 Total Award: \$4,000
- Sponsor: National Institutes of Health/National Institute of Dental Research Title: Effect of Growth under Different pH Conditions on the Viability of Mutans Streptococci P.I.: D.T. Zero July 1990 - December 1990 Biomedical Research Support Grant RR-05548 Total Award: \$2,781
- Sponsor: National Institutes of Health/National Institute of Dental Research Title: Small Instrumentation Grant
 P.I.: D. T. Zero
 Sept. 1, 1992 - August 31, 1993
 NIDR S15 DE10504-01
 Total Award: \$6,186
- Sponsor: National Institutes of Health/National Institute of Dental Research Title: Oral Retention of Topical Fluoride and Clinical Efficacy P.I.: D. T. Zero Sept. 30, 1992 - Sept. 29, 1995 NIDR 1 RO1 DEO8577-4 Total Award: \$654,605
- Sponsor: National Institutes of Health/National Institute of Dental Research Title: Clinical Comparison of Digital Imaging Fiber Optic Transillumination (DIFOTI) with Radiological Imaging
 P.I.: M. Elbaum (grant)
 P.I.: D.T. Zero (subcontract)
 March 1, 1997 - March 31, 1999
 NIDR 2 R44 DE11507-02A1
 Total Award: \$65,000 (EDC component)
- 12. Sponsor: Human Resources and Services Administration Title: Innovative Rural Community Health AEGD Program P.I.: D. T. Zero July 1, 1997 - July 31, 2000 Total Award: \$206,000
- Sponsor: Indiana State Department of Health
 Title: Funding Feasibility Study for a Mobile Dental Sealant Unit
 P.I.: D. T. Zero
 August 1, 2000 June 30, 2001
 Total Award: \$26,855
- 14. Sponsor: Marion County Department of Health

Title: Population Based Study to Determine the Oral Health Status of Selected Populations in Marion County Co-PI: D. T. Zero May 1, 2001 - April 30, 2002 Total Award: \$85.000 15. Indiana State Department of Health Sponsor: Title: State-wide Mobile Dental Sealant Program P.I.: D. T. Zero Jan 1, 2002 – June 30, 2003 Total Award: \$273,000 16. National Institutes of Health/National Institute of Dental and Craniofacial Research Sponsor: Title: Development of Gold Standard Fluoride Analytical Methods P.I. E. A. Martinez-Mier Co-Invest.: D. T. Zero July 01, 2002 – June 30, 2004 1 R21 DE 14716-1 Total Award: \$303,583 17. American Academy for Pediatric Dentistry Foundation Sponsor: Xylitol: Effects on the Acquisition of Cariogenic Species in Infants Title: P.I. Fontana Role: Co-Investigator 05/02/04-05/01/05 Total Award: \$99.378 18. National Institutes of Health/National Institute of Dental and Craniofacial Research Sponsor: Title: Predicting Caries Risk in Underserved Toddlers P.I.: Margherita Fontana Role: Co-investigator September 01, 2004-June 30, 2006 NIDCR R21 DE16451-01 Total Award: \$378,750 19. National Institutes of Health/National Institute of and Craniofacial Dental Research Sponsor: Title: Clinical Validation of Combined ICDAS/QLF Exam for Early Caries Detection P.I.: Ferreira Zandoná Role: Co-investigator 09/01/2006 - 08/31/2011 NIH/NIDCR RO1 DE017890 \$3,400,000 (if fully funded over five years) Total Award: 20. Sponsor: **Delta Dental Fund** Title: **Risk Assessment Validation Using New Caries Detection Methods** P.I.: Ferreira Zandoná Role: Co-investigator 07/01/07 - 06/30/07 Total Award: \$14,434 21. Sponsor: National Institutes of Health/National Institute of Dental and Craniofacial Research Title: Effectiveness of Sealing Caries: A Way to Reduce Disparities in Dental Caries P.I.: Margherita Fontana Role: Co-investigator 07/01/2007 - 06/30/2009 NIDCR 1 R21DE018115-01 Total Award: \$416,625 (over two years) 22. Sponsor: National Center for Research Resources Title: **Clinical and Translational Sciences Institute** P.I.: Anantha Shekhar

Role: Co-investigator UL1RR025761-01 05/1/08 – 4/30/16 Current Direct: \$4,233,755

23. Sponsor: A70-9-069166 HRSA-Indiana State Department of Health Title: Indian Strategic Oral Health Initiative P.I.: Eric R. Wright Role: Consultant 01/01/2009- 08/31/2009 Total Award: \$184,022

- Sponsor: National Institutes of Health/National Institute of and Craniofacial Dental Research Title: Quantitative and Qualitative Assessment of Caries Lesion Activity
 P.I.: M. Ando Role: Co-investigator 7/01/2009 – 6/30/2011
 NIH1 R21 DE018390-01A2 Total Award: \$423,500 (over two years)
- Sponsor: Borrows Foundation
 Title: An In situ Study on the Impact of Fluoride Concentration and Salt in Milk on Its Anti-Caries Efficacy

 P.I. F. Lippert
 Role: Co-P.I.
 01/01/12-6/30/14

Total Award: \$163,620

Sponsor: DOD W81XWH-11-T-0544
 Title: A Double-Blind, Randomized, Controlled, Dose Escalation Clinical Trial of an Antiplaque Chewing Gum - Phase 1 Safety and Tolerability and Phase 2a Safety, Tolerability, and Proof of Concept in a Gingivitis Population
 P.I. D.T. Zero

09/17/12-09/16/15

Total Award: \$1,341,460

- Sponsor: OVCR Commercialization Fund Title: Security Verification for HIPAA Compliance of a New Electronic Dental Caries Risk Assessment Aid P.I. D.T. Zero 10/01/13-09/30/14 Total Award: \$20,000
- 28. Sponsor: Univ Penn/ Institute of Dental and Craniofacial Dental Research Title: Biofilm Elimination and Caries Prevention using Multifunctional Nanocatalysts P.I.: H Koo Role: Site PI Subcontract with University of Pennsylvania 12/01/17-11/30/19 NIDCR 1R01DE025848-01A1 Total Award: \$77,339 (Year 1 & 2)
- Sponsor: National Institutes of Health/National Institute of and Craniofacial Dental Research Title: Objective Outcomes Measures for the Clinical Assessment of Erosive Tooth Wear P.I.: A. Hara Role: Co-investigator 08/01/2018 - 07/31/2020 5R21DE026844-02 Total Award: \$445,337 (Year 1 &2)
- 30. Sponsor: National Institutes of Health/National Institute of and Craniofacial Dental Research

	Title: P.I.: Role: 08/09/2019 - 07 1R21DE027786 Total Award:	
31.	Sponsor: Title: P.I.: Role: 10/10/2020 Total Award:	Regenstrief Institute Saliva and COVID-19 Diagnosis and Surveillance T. Thyvalikakath Co-investigator \$20,000
32.	Sponsor: Title: P.I.: Role: 09/04/2020 - 09 1R56DE029195 Total Award:	
33.	Sponsor: Title: P.I.: Role: 09/01/2021 - 08 NIDCR 2R01DE Total Subaward Total Budgeted	E025848 - 05
34.	Sponsor: Title: P.I.: Role: 09/13/2023 – 06 1U01DE033269 Total Award:	

Commercial Research Support

- 1. Sponsor: Kraft, Inc. Title: In vivo Cheese Study P.I.: J. D. B. Featherstone Role: Co-investigator July 1, 1988 - Dec. 31, 1990 Total Award: \$116,590
- 2. Sponsor: Procter and Gamble Company Title: Intraoral Calculus Formation and Its Prevention P.I.: J. D. B. Featherstone Role: Co-Investigator July 1, 1988 - Dec. 31, 1991 Total Award: \$140,000
- 3.
 Sponsor:
 Beecham Products

 Title:
 Assessment of Retention Properties of Fluoride-Containing Capsules in the Mouth

P.I.: D. T. Zero February 1 - May 31, 1989 Total Award: \$8,500 4. Sponsor: Leaf Inc. Title: Effect of Chewing Xylitol Chewing Gum vs Sorbitol Chewing Gum on the Acidogenic Potential of Dental Plaque P.I.: D. T. Zero January 1, 1990 - June 30, 1990 Total Award: \$20,430 5. Sponsor: SmithKline Beecham Title: Fluoride Dentifrice Dose-Response Using an Intraoral Model P.I.: D. T. Zero January 1, 1991 - June 31, 1991 Total Award: \$12,500 Procter and Gamble Company 6. Sponsor: Evaluation of the Efficacy of Fluoride Dentifrices Using the Intraoral Enamel Title: **Demineralization Test** P.I.: D. T. Zero July 1, 1991 - June 30, 1992 Total Award: \$50,000 7. Sponsor: William Wrigley Jr. Company Title: Evaluation of Possible Enamel Demineralization Inhibitors Using an Intraoral Caries Model P.I.: D. T. Zero January 1, 1992 - November 31, 1992 Total Award: \$86,262 8. Sponsor: Procter and Gamble Company Title: Evaluation of the Clinical Efficacy of Fluoride Dentifrices Using an Intraoral Caries Model P.I.: D. T. Zero Sept. 1, 1992 - June 30, 1993 Total Award: \$125,000 9. Church and Dwight Sponsor: Title: In situ Testing of Fluoride Dentifrices P.I.: D. T. Zero July 1, 1993 - Feb. 28, 1994 \$100,000 Total Award: 10. Sponsor: Enamelon Research, Inc. Title: Evaluation of Amorphous Calcium Phosphate in a Short-term Intraoral Remin Model. P.I.: D. T. Zero June, 1994 - December 31, 1994 Total Award: \$31,860 11. Sponsor: SmithKline Beecham Evaluation of the Combination of Calcium Phosphate with Fluoride in an In situ Title: Demineralization/Remineralization Model P.I.: D.T. Zero July 1, 1995 - June 30, 1996 Total Award: \$135,000 12. Sponsor: Warner-Lambert Company Evaluation of Mineral Additives Using a Short-term Intraoral Remineralization Model Title: P.I.: D.T. Zero Sept. 1, 1995 - March 31, 1996

Total Award: \$58,050

- Sponsor: Enamelon Research, Inc.
 Title: Evaluation of Amorphous Calcium Phosphate in a Short-term Intraoral Remin Model.
 P.I.: D. T. Zero
 April 1, 1996 July 31, 1996
 Total Award: \$32,362
- Sponsor: Church and Dwight Title: Comparison of the Effect of Different Dentifrice Treatments on Fluoride Uptake by Enamel.
 P.I.: D. T. Zero Aug. 1,1996 - Sept. 30, 1996 Total Award: \$23,952
- 15. Sponsor: Enamelon Research, Inc.
 Title: Evaluation of the Anticaries Efficacy of a Test Dentifrice Containing Calcium Phosphate Using an *In situ* Caries Model.
 P.I.: D. T. Zero
 Sept. 1, 1996 Dec. 31, 1997
 Total Award: \$177, 407
- 17. Sponsor: Tom's of Maine
 Title: Evaluation of the Anticaries Efficacy of a Fluoride Dentifrice Product Using an *In situ* Caries Model
 P.I.: D. T. Zero
 Sept. 1, 1997 December 31, 1998
 Total Award: \$232,037
- Sponsor: Tom's of Maine

 Title: Evaluation of Enamel Fluoride Uptake from Fluoride Dentifrice Products Using FDA Laboratory Test Profile Test Method # 40
 P.I.: D. T. Zero
 May 1, 1997 Oct. 16, 1997
 Total Award: \$62,000

19. Sponsor: Block Drug Company Title: Evaluation of Enamel Fluoride Uptake from Fluoride Dentifrice Products Using FDA Laboratory Test Profile Test Method # 40 P.I.: D. T. Zero June 1, 1997 - Sept. 30, 1997 Total Award: \$27,000

Sponsor: SmithKline Beecham
 Title: Evaluation of Anticaries Efficacy of a tartar control dentifrice with fluoride using an *in situ* caries model
 P.I. D. T. Zero
 October 10, 1998 – Sept. 30, 1999
 Total Award: \$293,196

21. Sponsor: Enamelon Research, Inc. Title: Evaluation of the Anticaries Efficacy of a Test Dentifrice Containing Calcium Phosphate Using an In situ Caries Model - Study III D. T. Zero

July 1, 1998 - March 31, 1999 Total Award: \$136,656

- Sponsor: SmithKline Beecham
 Title: Evaluation of Enamel Fluoride Uptake from Fluoride Dentifrice Products Using FDA
 Laboratory Test Profile Test Method # 40
 P.I.: D. T. Zero
 August 1, 1998 February 28, 1999

Total Award: \$64,000

- Sponsor: Church and Dwight Title: Comparison of the Effect of Different Dentifrice Treatments on Fluoride Uptake by Enamel. Study #7
 P.I.: D. T. Zero Oct. 1, 1998 -Dec. 31, 1998 Total Award: \$20,000
- Sponsor: Fertin A/S (DANDY A/S)
 Title: Preliminary Evaluation of the Anticaries Efficacy of Chewing Gum Containing Carbamide Using an *In situ* Caries Model
 P.I.: D. T. Zero
 May 1, 1999 - December 31, 1999
 Total Award: \$29,688
- Sponsor: W. Wrigley Jr. Company Title: Evaluation of the Addition of Calcium to Sugar-free Chewing Gum Using an *In situ* Remineralization Model
 P.I.: D. T. Zero May 1, 1999 - December 31, 1999 Total Award: \$98.625

27. Sponsor: Warner-Lambert Company Title: Salivary Fluoride Clearance after Rinsing with Listerine Fluoride Mouthrinse Using Two Dosing Regimens P.I.: D. T. Zero May 1, 1999 – September 30, 1999 Total Award: \$28,719

- Sponsor: Proctor & Gamble

 Title: A Study to Evaluate the Gingivitis Efficacy of Various Experimental Dentifrices vs. a Negative Control
 P.I.: D. T. Zero
 Dec 1, 1999 June 30, 2000
 Total Award: \$394,000
- 29. Sponsor: Proctor & Gamble Title: Dosing variability study P.I.: D. T. Zero March 15, 2000 – December 30, 2001 Total Award: \$74,000
- Sponsor: Pfizer/Warner-Lambert Company
 Title: Determination of the Efficacy of Fluoride Mouthrinse Prototype in an Intraoral Caries
 P.I.: D. T. Zero

May 1, 2000 – March 31, 2001 Total Award: \$814,000

- 31. Sponsor: Proctor & Gamble
 Title: A 6-month Study to Assess the Staining Potential of an Experimental Dentifrice
 P.I.: D. T. Zero
 June 12, 2000 February 28, 2001
 Total Award: \$72,260
 32. Sponsor: AK Pharma, Inc.
 Title: Evaluation of the Anticaries Potential of a New Mouthrinse Using a Human Plagu
- Title: Evaluation of the Anticaries Potential of a New Mouthrinse Using a Human Plaque Acidity Model P.I.: D. T. Zero June 1, 2000 – August 31, 2000 Total Award: \$27,000
- 33. Sponsor: Church & Dwight Title: A Study to Evaluate the Efficacy of Two Dentifrices to Prevent Dental Calculus Formation
 P.I.: D. T. Zero July 1, 2000 – December 31, 2000 Total Award: \$73,076
- Sponsor: Proctor & Gamble
 Title: A Study to Assess the Safety of Two Denture Adhesive Creams
 P.I.: D. T. Zero
 September 1, 2000 June 30, 2001
 Total Award: \$85,000
- 35. Sponsor: Proctor & Gamble
 Title: A Study to Assess the Safety of a Viscous Liquid Polymer
 P.I.: D. T. Zero
 Dec 13, 2000 January 31, 2001
 Total Award: \$22,000
- Sponsor: Pfizer/Warner-Lambert Company Adams Division

 Title: A Series of Research Clinical Studies Using a Human Plaque Acidity Model to Evaluate the Cariogenicity of Food, Chewing Gum and Mint Products
 P.I.: D. T. Zero

 December 1, 2000 February 28, 2001
 Total Award: \$83,877
- 37. Sponsor: Pfizer/Warner-Lambert Company Adams Division
 Title: Evaluation of the Remineralization Efficacy of Mints Using an In situ Caries Model
 P.I.: D. T. Zero
 January 1, 2001 August 31, 2001
 Total Award: \$168,635
- Sponsor: GlaxoSmithKline
 Title: Determination of the Ability of Various Chemical Agents to Occlude Dentinal Tubules
 P.I.: D. T. Zero
 December 1, 2001 September 30, 2002
 Total Award: \$35,000
- Sponsor: GlaxoSmithKline
 Title: A Clinical Study to Assess a New Dental Whitening System on Maxillary Teeth
 P.I.: D. T. Zero
 December 1, 2001 September 30, 2002
 Total Award: \$123,289
- 40.
 Sponsor:
 GlaxoSmithKline

 Title:
 Determination of the Structure and Composition of Dental Stain

	P.I.: December 1, 20 Total Award:	D. T. Zero 001 – September 30, 2002 \$5,000
41.	Sponsor: Title: P.I.: January 1, 2002 Total Award:	Oral-B Laboratories A Clinical Comparison of the Safety and Efficacy of Two Electric Toothbrushes D. T. Zero 2 – June 30, 2002 \$80,377
42.	Sponsor: Title: P.I.: January 1, 2002 Total Award:	Pfizer Consumer Products Group, Adams Division Evaluation of the Remineralization Efficacy of Chewing Gum Using an In situ Caries model D. T. Zero 2 – June 30, 2002 \$132,915
43.	Sponsor: Title: P.I.: April 1, 2002 - N Total Award:	Tom's of Maine Evaluation of the Anticaries Efficacy of a Fluoride Dentifrice Product Using an <i>In situ</i> Caries Model D. T. Zero May 31, 2004 \$323,129
44.	Sponsor: Title: P.I.: August 16, 200 Total Award:	WM Wrigley Jr. Company Plaque pH Pilot Study - Clinical Trial D. T. Zero 2 – May16, 2003 \$31,104
45.	Sponsor: Title: P.I.: August 01, 200 Total Award:	GlaxoSmithKline In Situ Determination of the Ability of Various Chemical Agents Occlude Dentinal- (Pilot Study) D. T. Zero 2 – November 30, 2002 \$46,874
46.	Sponsor: Title: Co-P.I.: October 1, 2003 Total Award: \$	Pfizer/Warner-Lambert Company Color Stability of Dental Composite Resins after Immersion in Cool Mint Listerine D. T. Zero 2 – February 28, 2003 72,531
47.	Sponsor: Title: P.I.: October 1, 2002 Total Award: \$	Pfizer/Warner-Lambert Company Evaluation of the Anticaries Potential of an Oral Care Gel Bead Using a Human Plaque Acidity Model D. T. Zero 2 – February 28, 2003 39,925
48.	Sponsor: Title: P.I.: August 16, 200 Total Award:	WM Wrigley Jr. Company A Study to Determine the Effect of Lozenge Use Subsequent to Snack Food Consumption on the pH of Dental Plaque D. T. Zero 2 - May16, 2003 \$94,500
49.	Sponsor: Title: P.I.:	GlaxoSmithKline Determination of Chemical Composition of Stain and the Mechanisms of Stain Attachment to Dental Surfaces D. T. Zero

	December 31, 2 Total Award:	2002 – December 30, 2003 \$80,000
50.	Sponsor: Title: P.I.: January 29, 200 Total Award:	Proctor & Gamble Evaluation of the Erosive Potential of Beverages Using an In situ model D. T. Zero 03 – June 30, 2003 \$86,710
51.	Sponsor: Title: P.I.: May 1, 2003 – 0 Total Award:	GlaxoSmithKline Comparison of the Clinical Efficacy of Two Fluoride Dentifrices Using an In situ Caries Model D. T. Zero October 30, 2003 \$216,000
52.	Sponsor: Title: P.I.: June 01, 2003 - Total Award:	Proctor & Gamble Evaluation of the Erosive Potential of Beverages Using an In situ model, Part II D. T. Zero - August 01, 2003 \$31,605
53.	Sponsor: Title: P.I.: August 1, 2003 Total Award:	GlaxoSmithKline Comparison of the Clinical Efficacy of Two Fluoride Dentifrices Using an In situ Caries Model – Phase II D. T. Zero – February 29, 2004 \$236,595
54.	Sponsor: Title: P.I.: October 15, 200 Total Award:	Cadbury Adams A Multi-site Evaluation Using an Intraoral Remineralization Model D. T. Zero 03 – November 1, 2004 \$140,260
55.	Sponsor: Title: P.I.: January 6, 2004 Total Award:	GlaxoSmithKline Comparison of the Clinical Efficacy of Two Fluoride Dentifrices Using an In situ Caries Model – Phase III D. T. Zero 4 – June 30, 2004 \$293,108
56.	Sponsor: Title: P.I.: July 1, 2004 – J Total Award:	GlaxoSmithKline A Proof of Principle Study to Determine the Efficacy of a No/Low Abrasive Toothpaste vs. Control D. T. Zero anuary 1, 2005 \$378,890
57.	Sponsor: Title: P.I.: September 1, 2 Total Award:	Curozone Company ICDAS Calibration Study D. T. Zero 004-January 1, 2005 \$100,291
58.	Sponsor: Title: P.I.: 11/1/04 – 4/31/0 Total Award:	Curozone Company Epidemiology Study to Determine the Prevalence of Incipient Caries D. T. Zero 5 \$ 113,505
59.	Sponsor:	GlaxoSmithKline

	11/22/04 - 03/3	Comparison of the Clinical Efficacy of Two Fluoride Dentifrices Using an In situ Caries Model – Phase IV D. T. Zero 1/05 \$385,852
60.	Title: P.I.: 02/01/05 – 01/3	GlaxoSmithKline Pilot Study to Evaluate the Fluoride Retention in Plaque Fluid after Toothpaste Use D. T. Zero 1/06 \$69,378
61.	Title:	
62.	Title:	GlaxoSmithKline Evaluation of a Dentifrice Using an Erosion Remineralization Model D. T. Zero 30/06 \$86,437
63.	Title: P.I.: 05/01/06 – 12/3	GlaxoSmithKline Evaluation of Three Dentifrices Using an In-Situ Model of Dental Erosion and Remineralization D. T. Zero 1/06 \$203,740
64.	P.I.: 09/25/06 – 05/3	GlaxoSmithKline A Study to Compare Fluoride in Plaque Fluid after Single Use of Two Novel "Gel Foam: Dentifrices and a Marketed Dentifrice Product D. T. Zero 1/07 \$299,797
65.	Title: P.I.: 10/01/06 – 04/3	GlaxoSmithKline Evaluation of Two Experimental Dentifrices Using an In Situ Remineralization Fluoride Uptake Model D. T. Zero 0/07 \$216,252
66.	P.I.: 10/01/06 – 04/3	GlaxoSmithKline A Study to Investigate the Effect of Fluoride on Enamel Surface Softening from an Erosive Challenge D. T. Zero 0/07 \$182,604
67.	Sponsor: Title: P.I.: 12/20/06 – 06/3 Total Award:	Curozone Company Amendment #3 A Multi Center Study to Evaluate the Safety and Efficacy of the Use of Ozone for the Management of Fissure Caries D. T. Zero 0/09 \$541,547
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68. Sponsor: Curozone Company

	Title: P.I.: 12/20/06 – 10/3 Total Award:	Amendment #4 Epidemiology Study to Determine the Prevalence of Incipient Caries D. T. Zero 1/07 \$168,450
69.	Sponsor: Title: P.I.:	GlaxoSmithKline A Study to Investigate the Effect of Sodium Lauryl Phosphate on Enamel Surface Softening from an Erosive Challenge D. T. Zero
	04/01/07 – 09/3 Total Award:	
70.	Sponsor: Title:	GlaxoSmithKline Evaluation of In Situ Remineralization, Fluoride Uptake, and Plaque Fluid and Salivary Fluoride Retention from an Experimental Fluoride Dentifrice
	P.I.: 4/22/07 – 08/31 Total Award:	D. T. Zero /07 \$96,038
71.	Sponsor: Title:	Curozone Company Amendment #5 A Multi Center Study to Evaluate the Safety and Efficacy of the Use of Ozone for the Management of Fissure Caries – Project Management
	P.I.: 12/20/06 – 06/3 Total Award:	D. T. Zero 0/09 \$165,841
72.	Sponsor: Title: P.I: Co-Invest: 4/22/07 – 08/31	
73.	Total Award:	\$158,885 GlaxoSmithKline
73.	Sponsor: Title:	A Comparison of the Clinical Efficacy of Sodium Fluoride Dentifrices Using an In Situ Caries Model
	P.I.: 07/01/07 – 02/0 Total Award:	D. T. Zero 1/08 \$227,459
74.	Sponsor: Title:	GlaxoSmithKline Evaluation of Four Dentifrices Using and In-situ Model of Dental Erosion and Remineralization
	P.I.: 09/15/07 – 02/2 Total Award:	D. T. Zero
75.	Sponsor: Title:	GlaxoSmithKline A Study to Investigate the Effect of Sodium Lauryl Phosphate on Enamel Softening from an Erosive Challenge
	P.I.: 07/01/07 – 02/0 Total Award:	D. T. Zero 1/08 \$185,892
76.	Sponsor: Title:	GlaxoSmithKline Exploratory Evaluation of an Experimental Fluoride Dentifrice Formulation Using an In- situ Remineralization/Fluoride Uptake Model
	P.I.: 09/15/07 – 02/0 Total Award:	D. T. Zero

77.	Sponsor: Title: P.I.: 10/01/07 – 03/3 Total Award:	GlaxoSmithKline Comparison of the Clinical Efficacy from the Retention Phase of Fluoride Delivery of Fluoride Toothpastes Using an In-Situ Caries Model D. T. Zero 1/08 \$296,095
78.	Sponsor: Title: P.I.: 12/17/07 – 06/3 Total Award:	GlaxoSmithKline The Effect of Brushing Time and the Amount of Dentifrice Used on Enamel Surface Microhardness. D. T. Zero 30/08 \$330,913
79.	Sponsor: Title: P.I.: 02/01/08 – 08/3 Total Award:	GlaxoSmithKline An Exploratory Study to Compare the Clinical Efficacy of Fluoride Dentifrices Using an In Situ Caries Model. D. T. Zero 1/08 \$144,969
80.	Sponsor: Title: P.I.: 03/14/08 – 09/3 Total Award:	GlaxoSmithKline Evaluation of a Test Mouthwash and Dentifrice Regimen in an In-Situ Model of Dental Erosion and Remineralization. D. T. Zero 60/08 \$312,183
81.	Sponsor: Title: P.I.: 03/14/08 – 10/3 Total Award:	GlaxoSmithKline Clinical Efficacy of Fluoride Toothpastes Using an In-Situ Caries Model. D. T. Zero 30/08 \$322,651
82.	Sponsor: Title: P.I.: 03/14/08 – 11/3 Total Award:	GlaxoSmithKline A Study to Investigate the Effect of Zinc Oxide on Enamel Surface Softening from an Erosive Challenge. D. T. Zero 30/08 \$156,180
83.	Sponsor: Title: P.I.: 06/01/08 – 10/2 Total Award:	GlaxoSmithKline Evaluation of Plaque Fluid Fluoride Retention from Fluoride Toothpastes D. T. Zero 27/08 \$326,502
84.	Sponsor: Title: P.I.: 06/20/08 – 12/3 Total Award:	GlaxoSmithKline A Study to Evaluate the Effectiveness of Three Fluoridated Dentifrices Using an In-situ Model of Dental erosion and Remineralization D. T. Zero 1/08 \$316,963
85.	Sponsor: Title: P.I.: 08/01/08 – 2/28 Total Award:	GlaxoSmithKline A Proof of Technology Study to Investigate the Effect of a Calcium Phosphate Complex on Enamel Surface Softening from an Erosive Challenge D. T. Zero //09 \$184,101

86.	Sponsor: Title: P.I.: 09/02/08 – 6/30 Total Award:	GlaxoSmithKline Clinical Efficacy of Fluoride Toothpastes Using an In situ Model D. T. Zero //09 \$30,199
87.	Sponsor: Title: P.I.: 09/02/08 – 6/30 Total Award:	GlaxoSmithKline Clinical Efficacy of Fluoride Toothpastes Using an In situ Model D. T. Zero //09 \$304,186
88.	Sponsor: Title: P.I.: 12/17/2008 – 08 Total Award:	GlaxoSmithKline A Study to Measure the Effect of Dentifrice Usage Regime on Delivery and Efficacy of Fluoride Using an In situ Caries Model D. T. Zero 8/31/2009 \$358,093
89.	Sponsor: Title: P.I.: 02/20/2009 – 10 Total Award:	GlaxoSmithKline A Placebo Controlled Study to Evaluate the Effectiveness of Three Experimental Treatments Using an In-situ Model of Dental Erosion and Remineralization D. T. Zero D/31/2009 \$317,148
90.	Sponsor: Title: P.I.: 06/01/2009 – 12 Total Award:	GlaxoSmithKline A Study to Compare the Enamel Remineralization Potential of Experimental Toothpastes Using an In situ Caries Model D. T. Zero 2/31/2009 \$210,461
91.	Sponsor: Title: P.I.: 5/26/09 – 05/25 Total Award: \$2	
92.	Sponsor: Title: P.I.: 5/26/09 – 05/25 Total Award: \$2	
93.	Sponsor: Title: P.I.: 08/01/2009 – 0 ^o Total Award:	GlaxoSmithKline (Z3480664/09-i-59) Evaluation of a Test Mouthwash and Dentifrice Regimen in an In-Situ Model of Dental Erosion D. T. Zero 1/31/2010 \$199,712
94.	Sponsor: Title: P.I.: 08/01/2009 – 0 ^o Total Award:	GlaxoSmithKline (T3350067/OHRI 09-i-60) A Study to Measure the Effect of Usage Regimen on Delivery and Clearance of Fluoride from a Sodium Fluoride Dentifrice D. T. Zero 1/31/2010 \$180,987

95.	Sponsor: Title: P.I.: 10/15/2009 – 05 Total Award:	GlaxoSmithKline (T3500690/OHRI 09-i-61) Comparison of Enamel Remineralization Potential of Dentifrices Incorporating Different Fluoride Salts Using an In Situ Model D. T. Zero 5/31/2010 \$390,574
96.	Sponsor: Title: P.I.: 12/02/09 – 02/2 Total Award:	Johnson & Johnson In situ Anticaries Evaluation of Experimental Dentifrices D. T. Zero 8/10 \$104,685
97.	Sponsor: Title: P.I.: 03/01/2010 – 10 Total Award:	GlaxoSmithKline (OHRI 10-i-064) A pilot study to Assess the In situ Remineralization of Low- and High-r Caries Lesions D. T. Zero D/31/2010 \$30,000
98.	Sponsor: Title: P.I.: 07/01/10 – 06/3 Total Award:	GlaxoSmithKline (Z3690974/OHRI 10-I-068) Exploratory Proof of Principle Study to Evaluate the Remineralization Efficacy Fluoride Dentifrice Containing Calcium Phophosilicate Using an In situ Remineralization Model D. T. Zero 90/11 \$494,089
99.	Sponsor: Title: P.I.: 07/1/10 – 06/30 Total Award:	GlaxoSmithKline (T3450972/IU 10-I-069) Clinical Efficacy of Fluoride Toothpastes Using an In situ Caries Model D. T. Zero /11 \$256,827
100.	Sponsor: Title: P.I.: 07/01/2010 – 12 Total Award:	GlaxoSmithKline (Z3170978/10-i-067) Exploratory Study to Evaluate the Remineralization Effectiveness of Modified Dentifrices in an In situ Erosion Model D. T. Zero 1/30/2010 \$47,184
101.	Sponsor: Title: P.I.: Co-PI: 09/01/10-03/23/ Total Award:	GlaxoSmithKline (Z6961036/10-i-070) A Placebo Controlled Study to Evaluate the Effectiveness of Experimental Foaming Toothpastes Using an In situ Erosion Remineralization Model A.T. Hara D.T. Zero 11 \$239,017
102.	Sponsor: Title: P.I.: Role: 02/01/11-10/31/ Total Award:	GlaxoSmithKline (Z6381243/11-I-72) An Exploratory Study Evaluating the Effects of Toothpastes on Tooth Enamel Surface Loss in a Long Term Erosion/Abrasion In situ Model A.T. Hara Co-PI /11 \$158,961
103.	Sponsor: Title: P.I.: 04/01/11-10/31/ Total Award:	GlaxoSmithKline (T7331311) Project to Increase the Partial Denture Wearer Panel/Database D.T. Zero /11 \$29,440

103.	Sponsor: Title:	GlaxoSmithKline (11-d-203) Pilot Study on the Feasibility of Saliva and Plaque Collection in Young Children Ages 4 to 5
	P.I.: 06/25/11-09/30/ Total Award:	D.T. Zero 11 \$89,157
104.	Sponsor: Title:	GlaxoSmithKline (11-i-074) Pilot Study on the Feasibility of Using a Palatal Caries Remineralization Model in Children
	P.I.: 06/14/11-10/31/ Total Award:	D.T. Zero 11 \$116,328
105.	Sponsor: Title:	GlaxoSmithKline (T7331311/IU 11-i-073) Exploratory Study to Evaluate the Remineralization Potential of a Non-Aqueous Dentifrice in an In situ Caries Model
	P.I.: 06/20/11-04/30/ Total Award:	D.T. Zero
106.	Sponsor: Title: P.I.: 09/14/11-03/30/ Total Award:	Johnson & Johnson In situ Anticaries Evaluation of Sodium Fluoride Mouthrinses D. T. Zero 12 \$158,528
107.	Sponsor: Title:	GlaxoSmithKline (Z6961385/11-I-076) A Placebo Controlled Study to Evaluate the Effectiveness of Two Gel to Foam Toothpastes Using a Modified In situ Model of Dental Erosion and Remineralization
	P.I.: Role: 11/09/11-05/31/ Total Award:	A.T. Hara Co-PI
108.	Sponsor: Title:	GlaxoSmithKline (RH01381/11- i -078) A Clinical Study to Evaluate the Effect of Brushing Duration on Fluoride Levels in Plaque Fluid and Saliva in Children
	P.I.: Role: 10/01/11-03/31/ Total Award:	
109.	Sponsor: Title: P.I.: 11/08/11-03/31/ Total Award:	GlaxoSmithKline (RH01381) Project to Increase the Partial Denture Wearer Panel/Database for Study D.T. Zero 12 \$93,970
110.	Sponsor: Title:	GlaxoSmithKline (RH01404/ IU 11-i-079) Exploratory Study to Evaluate the Remineralization Potential of two Experimental Dentifrices in an In situ Caries Model GSK Study
	P.I.: 11/04/11-08/31/ Total Award:	D.T. Zero 12 \$509,220
111.	Sponsor: Title:	GlaxoSmithKline (RH01390/11-i-081) A Clinical Study to Evaluate Experimental Children's Toothpastes in In situ Caries Model
	P.I.: 12/01/11-07/31/	D.T. Zero 12

	Total Award:	\$367,945
112.	Sponsor: Title: P.I.: 12/15/11-07/31/ Total Award:	GlaxoSmithKline (RH01299/12/i/082) The Effect of Fluoride in an Experimental Dentifrice on Remineralization of Erosive Lesions In-situ D.T. Zero 12 \$377,611
113.	Sponsor: Title: P.I.: 12/20/11-12/31/ Total Award:	GlaxoSmithKline (RH01381/11- i -078) In situ Study to Confirm the Anti-caries Potential of a 1.1365% Sodium Monofluorophosphate (1500ppmF) Dentifrice Containing 5% w/w NovaMin D.T. Zero 12 \$681,746
114.	Sponsor: Title: P.I.: 03/30/12-3/31/1 Total Award:	GlaxoSmithKline (RH01495/11-i-085) A Clinical Study to Evaluate an Experimental Children's Toothpaste in an In situ Caries Model D.T. Zero 3 \$362,773
115.	Sponsor: Title: P.I.: 07/1/12-6/30/13 Total Award:	GlaxoSmithKline Caries Management Course Multimedia E-Learning Program (Smile-On) D.T. Zero \$60,000
116.	Sponsor: Title: P.I.: Role: 011/29/12-06/30 Total Award:	GlaxoSmithKline (RH01648/IU-12-I-088) A Proof of Technology In-situ Study to Investigate the Impact of Fluoride Dentifrices with Different Surfactant Systems on Enamel Surface Softening following Erosive Changes A. Hara Co-Investigator D/13 \$252,730
117.	Sponsor: Title: P.I. 11/20/12-05/30/ Total Award:	Unilever The Effect of Calcium-enriched Toothpaste, Standard Fluoride Toothpaste and Fluoride Free Toothpaste on Demineralized Tooth Enamel In situ D.T. Zero 13 \$229,230
118.	Sponsor: Title: P.I.: 12/01/12-10/01/ Total Award:	GlaxoSmithKline Performance of ICDAS, QLF, and Canary System to Detect Primary Caries in Permanent Teeth D.T. Zero 13 \$90,000
119.	Sponsor: Title: P.I.: Role: 09/20/13-03/01/ Total Award:	GlaxoSmithKline (RH01648/IU-12-I-088) Erosion Leadership: In vitro Pre-Clinical Studies (12-EA-16; 12-EA-12; 12-EA-07) A. Hara Co-Investigator 14 \$106,111
120.	Sponsor:	GlaxoSmithKline (RH01648/IU-12-I-088)

	Title: P.I.: Role: 08/09/13-02/09/ Total Award:	Evaluation of a Mouthrinse and Dentifrice Regimen in an In situ Remineralization Dental Erosion Short Term Model A. Hara Co-Investigator /14 \$203,562
121.	Sponsor: Title: P.I. 10/01/13-09/30/ Total Award:	Unilever (ORL-IST-1425/IU-13-i-093) The Effect of a Dual-Phase Calcium Silicate/Phosphate Plus Fluoride Gel Used in Combination with Calcium-Silicate/Phosphate Plus Fluoride Toothpaste on Demineralization Tooth Enamel Compared to Calcium Silicate/Phosphate Plus Fluoride Toothpaste, Standard Fluoride Toothpaste and Non-Fluoride Toothpaste In situ D.T. Zero /14 \$360,199
122.	Sponsor: Title: P.I.: 05/21/14- 1/21/ Total Award:	GlaxoSmithKline (RH02437/14-i-094) The Effect of Experimental Dentifrices on Remineralization of Caries Lesions In-situ D.T. Zero
123.	Sponsor: Title: P.I.: 07/21/2014-01/3 Total Award:	Johnson & Johnson (CO-140711120407-NACT/IU 14-i-098) Screening and Recruitment of Panelists Who Wear Mandibular Partial Dentures for Participation in Subsequent Study(ies) Which Will Use an In-Situ Bioflim Model D. T. Zero 30/2015 \$83,666 + \$28,343 (supplement) = \$112,009
124.	Sponsor: Title: P.I. 10/01/2014-01/3 Total Award:	Unilever (ORL-IST-1425/IU-13-i-093 The Effect of a Dual-Phase Calcium Silicate/Phosphate Plus Fluoride Gel Used in Combination with Calcium-Silicate/Phosphate Plus Fluoride Toothpaste on Erosively Challenged Tooth Enamel In situ. D.T. Zero 31/2015 \$111,386
125.	Sponsor: Title: P.I.: 10/13/14-03/31/ Total Award:	Johnson & Johnson (CO-14718090150-OCCT/14-i-097) Model Feasibility to Determine Optimal Time to Biofilm Growth D. T. Zero /15 \$74,279
126.	Sponsor: Title: P.I.: Role: 10/01/14-02/28/ Total Award:	GlaxoSmithKline (RH02534/14/i/100) An Exploratory Study to Assess the Ability of a Modified In situ Model to Evaluate the Anti-Erosion Properties of Fluoride Dentifrices A. Hara Co-Investigator /15 \$214,146 + \$5,463 (Amendment) = \$219,609
127.	Sponsor: Title: P.I.: 04/01/2015 - 10 Total Award:	GlaxoSmithKline (203160) Clinical Evaluation of Oral Hygiene Products in an In Situ Caries Model D.T. Zero //31/2015 \$462,451
128.	Sponsor: Title: P.I.:	Johnson & Johnson (CO-150115163108-NACT 15-i-104) Assessment of Fluid Dynamic Parameters for Disruption of In-situ Biofilms with and without Chemistry Treatments D. T. Zero

	04/01/2015-10/3 Total Award:	31/2015 \$127,229
129.	Sponsor: Title: P.I.:	C3-Jian, Inc. (C3J15-202-00/15-d-228) A Phase 2, Randomized, Double-blind, Placebo-controlled Study to Evaluate the Safety and Microbiology of C16G2 Administered in Multiple Oral Gel Doses to Adolescent and Adult Dental Subjects D. T. Zero
	07/15/15-06/30/	
130.	Sponsor: Title:	Johnson & Johnson (C0-150803080504-OCCT/ IU 15-i-106) An Ex-vivo Assessment of Plaque Biofilm Removal Using a Novel, Multi-Nozzle Fluid Delivery System with and without the Use of an Experimental Formulation
	P.I.: 09/30/2015-12/3 Total Award:	D. T. Zero 31/2015 \$129,314
131.	Sponsor: Title: P.I.: 11/03/15-11/03/	C3-Jian, Inc. (C3J15-203-00/15-d-230) A Phase 2, Double-blind, Placebo-controlled and Open-Label; Multi-Center Study to Evaluate the Microbiology and Safety of C16G2 Administered in Multiple Oral Gel Doses to Adult and Adolescent Dental Subjects D. T. Zero 16
	Total Award:	\$105,351
132.	Sponsor: Title:	Johnson & Johnson (CO-150921151037-OCCT/ IU 15-d-229) An Exploratory Clinical and Sensory Evaluation of the Effect of an Early Prototype Fluid Jetting Dental Cleaning System
	P.I.: 10/27/2015-01/3 Total Award:	D. T. Zero
133.	Sponsor: Title: P.I.: 12/01/2015 - 01 Total Award:	GlaxoSmithKline (RH02538/ IU 15-I-105) Clinical Efficacy of Three Experimental Toothpastes Using an In situ Caries Model D.T. Zero /31/2017 \$714,068
134.	Sponsor: Title:	Noveome Biotherapeutics (ST266-PERIO-201) A Randomized, Double-blind, Placebo-controlled Study to Evaluate the Safety, Efficacy, and Treatment Regimen of ST266 in Subjects with Moderate to Severe Periodontitis.
	P.I.: 05/05/2016 – 09 Total Award:	D.T. Zero
135.	Title: P.I.: 07/01/2016-12/3	Johnson & Johnson (C0-160504130216-OCCT/ IU 16-i-109) In situ Remineralization/Demineralization Evaluation of an Experimental Mouth Rinse D. T. Zero 31/2016 \$300,468
136.	P.I.: 08/01/2016-01/3	
407	Total Award:	\$233,085

	Title: P.I.: 06/15/2017 - 09 Total Award:	A Randomized, Double-Blind, Placebo-Controlled Multicenter Phase 2 Dose-Ranging Study to Assess The Safety and Efficacy of Multiple VAY736 Doses Administered Subcutaneously in Patients with Moderate to Severe Primary Sjögren's Syndrome D.T. Zero 9/30/2020 \$344,979
138.	Sponsor: Title: P.I.: 08/09/2017-12/	
139.	Total Award: Sponsor: Title: P.I.: 11/03/2017 -11. Total Award:	\$117,951 GlaxoSmithKline (GSK 00498431 / IU071041-00002B) Evaluation of the Fluoride Dose Response of a Modified In situ Caries Model D.T. Zero /02/2018 \$332,038
140.	Sponsor: Title: P.I.: Role: 10/01/2017 - 06 Total Award:	GlaxoSmithKline (GSK 208166/ IU 17-i-113) A Randomized, Examiner Blind, Crossover, In situ Erosion Study to Investigate the Effectiveness of an Experimental Dentifrice in Remineralization of Previously Softened Enamel Compared to a Fluoride Free Placebo A. Hara Co-Investigator 5/30/2018 \$324,520
141.	Sponsor: Title: P.I.: 09/25/2017 - 05 Total Award:	Johnson & Johnson (CO-170602085906-OCCT/) /IU 17-i-114) Hanami, a Study of the Enhanced Remineralization Potential of Experimental Lozenge Formulations in an In situ Biofilm Model D. T. Zero 5/31/2018 \$399,411
142.	Sponsor: Title: P.I.: 01/30/2018 - 01 Total Award:	Church and Dwight, INC (ST-7702/IU 18-D-328) Evaluation of the Dose Response of Baking Soda in Fluoride Dentifrice in Neutralizing the Plaque pH Response Associated with a Sucrose Challenge D.T. Zero I/30/2019 \$70,940
143.	Sponsor: Title: P.I. Role: 01/01/2018 - 03 Total Award:	Univ of Pennsylvania/Johnson & Johnson (071577-00002B) A Novel Anti-Plaque Approach Using Catalytic Nanoparticles Koo Site Pl 3/31/2019 \$148,000
144.	Sponsor: Title: P.I.: 09/05/2018 - 03 Total Award:	Johnson & Johnson (CCSORC000689/IU 18-i-116) A Study of the Effects of Experimental Rinse Formulation Ex Vivo in an In-situ Biofilm Model D. T. Zero 3/31/2019 \$375,328
145.	Sponsor: Title:	Hello Products LLC Evaluation of the Anticaries Efficacy of a Fluoride Dentifrice Product Using an In situ Remineralization Model

	P.I. 09/28/2018 - 09 Total Award:	PI /28/2020 \$284,372
146.	Sponsor: Title: P.I.: 01/14/2019 - 05 Total Award:	Johnson & Johnson (19-D-240/CCSORC000802) Pilot Study: The Effects on Plaque pH and Saliva of Experimental Chewable Tablets D. T. Zero /31/2019 \$193,932
147.	Sponsor: Title: P.I. 08/23/2019-12/2 Total Award:	Unilever (ORL-IST-3324/19-I-053) The Effect of a Dual-Phase Calcium Silicate/Phosphate Plus Fluoride Gel Used In Combination with Calcium-Silicate/Phosphate Plus Fluoride Toothpaste on Demineralized Tooth Enamel Compared to Calcium Silicate/Phosphate Plus Fluoride Toothpaste, Standard Fluoride Toothpaste and Non-Fluoride Toothpaste In situ. D.T. Zero 23/2020 \$356,614 (with 2 supplements)
148.	Sponsor: Title: P.I.: Role: 09/11/2019-08/3 Total Award:	Johnson & Johnson (Armor CCSORC001935/19-i-119) Effects of Potassium Oxalate Mouthrinses on Dental Erosion A. Hara Co-Investigator 31/2020 \$\$420,253
149.	Sponsor: Title: P.I.: 06/01/2019 - 06 Total Award:	Novartis Pharmaceuticals Corporation (CFZ533B2201/19-D-241) A 48-week, 6-arm, randomized, double-blind, placebo controlled multicenter trial to assess the safety and efficacy of multiple CFZ533 doses administered subcutaneously in two distinct populations of patients with Sjögren's Syndrome (TWINSS) D.T. Zero /30/2023 \$322,330
150.	Sponsor: Title: P.I.: 03/24/2020 - 03 Total Award:	Colgate-Palmolive (CRO-2020-CAR-ARG-ED/IU 20-D-243) A Phase 2 randomized, double-blind, active-controlled multi-center clinical trial to assess the safety and the anti-caries efficacy of COL101 (arginine) non-fluoride dentifrices with 1.5%, 4.0% and 8.0% arginine in comparison with 0.24% sodium fluoride (1100 ppm F) dentifrice control in 10 to 14-year-old children. D.T. Zero /23/2025 \$427,950
151.	Sponsor: Title: P.I.: 01/28/2021 - 01 Total Award:	Procter and Gamble Company (2020154 / 20-1-120) Evaluation of the Fluoride Dose Response of MPF Dentifrice Using In situ Caries Model. D.T. Zero /27/2026 \$330,545
152.	Sponsor: Title: P.I.: 04/22/2021 - 04 Total Award:	Funded by Amgen through Investigator Sponsored Studies (ISS) Program (CAMG334AUS01T) A Randomized, Double Blind, Placebo-Controlled Single Center Phase 2 Study to Assess the Safety and Efficacy of Off-label Subcutaneous Administration of Erenumab- aooe in Patients with Temporomandibular Disorder. D.T. Zero /21/2026 \$181,798
153.	Sponsor:	Novartis Pharmaceuticals Corporation (CFZ533B2201E1)

Title:A TWINSS extension trial to evaluate the safety and tolerability of CFZ533 (iscalimab)
at two dose levels administered subcutaneously in patients with Sjögren's Syndrome

	P.I.: 08/01/2021 - 0 Total Award:	D.T. Zero 5/31/2025 \$138,447 – Budget reduced to \$4,068 due to subject's decision not to continue
154.	Sponsor: Title: P.I.: 05/03/2022 - 0 Total Award:	BIOHAVEN PHARMACEUTICALS, INC (BHV3000-317-004) Double-Blind, Randomized, Placebo Controlled, Safety and Efficacy Trial of BHV-3000 (rimgepant) Orally Disintegrating Tablet (ODT) for the Acute Treatment of Temporomandibular Disorders (TMD) D.T. Zero 5/02/2027 \$215,091
155.	Sponsor: Title: P.I.: 04/01/2022 - 1 Total Award:	Novartis Pharmaceuticals Corporation (CVAY736A2301) A randomized, double-blind, placebo controlled, 2-arm multicenter phase 3 study to assess the efficacy and safety of ianalumab in patients with active Sjögren's syndrome (NEPTUNUS-1) D.T. Zero 0/29/2028 \$369,369
156.	Sponsor: Title: P.I.: 07/10/2023 – 0 Total Award:	HALEON (14588/23-I-121) Comparison of the Remineralization Potential of an Optimized Fluoride Dentifrice with a Control Fluoride Dentifrice Using an in Situ Caries Model (Haleon #14588) D.T. Zero)6/30/2026 \$522,926

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- 5. Berkowitz RJ, **Zero D**, Edelstein B. Contributor: "Dental Caries" (chapter) in Twenty Common Problems in Preventive Health Care. Ed. D. Campos-Outcalt, McGraw-Hill, 2000, pp. 65-78.
- 6. **Zero DT**, Lussi A. Etiology of enamel erosion intrinsic and extrinsic factors. (chapter) in Tooth Wear and Sensitivity. Ed. M. Addy, G. Embery, M. Edgar, R. Orchardson, Martin Dunitz, Ltd, 2000, pp. 121-139.
- Zero D, Mol A, Sá Roriz C, Spoon M, Jacobs A, Keem S, Elbaum M. Caries detection using digital imaging fiber-optic transillumination (DIFOTI[™]) - A Preliminary Evaluation. In Early Detection of Dental Caries II. Ed. G Stookey, Indianapolis, Indiana University School of Dentistry, 2000, pp. 169-183.
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- 11. **Zero DT**, Moynihan P, Lingström P, Birkhed D. The role of dietary control. In Dental Caries: The Disease and its Clinical Management. Eds. Fejerskov O and Kidd E, Blackwell Munksgaard, 2008, pp. 329-352.
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- 13. Ekstrand K, **Zero DT**. Ecology of the oral cavity. In Caries Management Science and Clinical Practice. Eds. Meyer-Lückel H, Paris S, and Ekstrand K, Thieme, 2013, pp. 3-20.
- 14. Hara AT, **Zero DT**. Erosion Effects on Teeth. Clinical Strategies for the Prevention of Erosive Tooth Wear. In Foundations in Dentistry. Ed. Drone J, Indiana Dental Association, 2013, pp. 61-76.
- 15. Phantumvanit P, **Zero D**. Dental Caries. In Periodontal Disease, Dental Caries and Hypersensitivity: An Update for NEW GEN. Ed. Samaranayake LP, Singapore, MIMS Pte Ltd, 2013, pp. 26-37.
- 16. Jackson R, **Zero D**. Current Evidence for Caries Preventive Strategies. In Evidence-Based Dentistry for the Dental Hygienist. Ed. Fransve-Hawley, J, Quintessence Publishing Co,Inc, 2014, pp.197-221.
- 17. Scaramucci T, Carvalho JC, Hara AT, **Zero DT**. Causes of Dental Erosion: Intrinsic Factors. In Dental Erosion and Its Clinical Management. Ed. Amaechi BT, Springer International Publishing AG, Switzerland, 2015, pp. 35-68.
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