

CURRICULUM VITAE

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Full time Associate Professor, tenured.

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PROFESSIONAL BACKGROUND:

Education:

1985-1990 D.D.S., Universidad Central de Venezuela (UCV), Dental School, Caracas, Venezuela

1992-1996 Ph.D. in Dental Sciences (Major: Preventive Dentistry/Minor: Life Sciences), Indiana University, School of Dentistry (IUSD), Indianapolis, Indiana, USA

2011-2012 Fellow of the *Hedwig van Ameringen* Executive Leadership in Academic Medicine (ELAM) Program for Women.

Academic Appointments:

1989-1990 Teaching Assistant, Department of Oral Pathology, Dental School, UCV

1991-1992 Research Assistant, "Dr. Raul Vicentelli" Dental Research Institute, Dental School, UCV

1992-1994 Research Assistant, Oral Health Research Institute, IUSD

1997-1998 Visiting Assistant Scientist, Oral Health Research Institute, IUSD

1997-present Director Microbial Caries Facility, IUSD

1998-2004 Assistant Professor in Preventive and Community Dentistry, tenure-track

1999-2005 Associate member of the Indiana University Graduate Faculty

1999-2009 Member of IUSD Graduate Faculty

2004-2009 Associate professor with tenure (tenure granted 2005)

2005-2009 Graduate School endorsement to direct doctoral dissertations

2009-present Associate professor with tenure, University of Michigan (UoM)

2009-present Affiliate professor, IUSD

2012-present Cariology Discipline Co-coordinator

Other Appointments and Professional Consultantships:

1990-1992 Dentist (Private practice), Caracas and Puerto la Cruz, Venezuela

1999, 2003 Consultant (Procter and Gamble)

2002 Consultant (Gillette)

2003 Consultant-Dental Decks Reviewer

2004-present Consultant, Centers for Disease Control and Prevention (CDC): School based sealant programs

- 2005, 2009 Consultant, American Academy of Pediatric Dentistry, Caries Risk Assessment Tool Review
- 2006-07 Consultant, American Dental Association, Caries Risk Assessment Tool and Sealant Panel Review
- 2006-present Member, Delta Dental National Scientific Advisory Committee
- 2006-2009 Member, IUSD Alumni Board of Directors
- 2007-2009 IUSD Liaison to ADEA Commission, Change and Innovation (CCI) in Dental Education.
- 2007–present Consultant, ADA Council on Scientific Affairs
- 2008 Consultant, Pfizer
- 2010-present Consultant on ADA’s Caries Terminology Group
- 2012 Consultant Delta Dental of Michigan

Licensure and Certification:

- 1991 Dentist, Dental License, Venezuela
- 2010 Limited Dental license (teaching license), Michigan, USA

Honors and Awards:

Dental School:

- 1986-1990 Fundayacucho Scholarship for Undergraduate Dental School, UCV, Caracas, Venezuela
- 1990.11 Outstanding Achievements Award, UCV
- 1990.11 Outstanding Student of the Year, UCV
- 1990.12 Magna Cum Laude, UCV
- 1990.12 Special Graduation Award, Dental School, UCV

Graduate School:

- 1992-1996 "CONICIT" (Caracas, Venezuela) Scholarship for graduate studies
- 1994.03 Maynard K. Hine Award for Excellence in Dental Research, IUSD
- 1994.05 Garner Award, Third place; Annual Meeting, Indiana Branch, American Society for Microbiology
- 1995.05 Garner Award, Second place; Annual Meeting, Indiana Branch, American Society for Microbiology
- 1996.05 Post-doctoral AADR Edward H. Hatton Award
- 1996.05 Garner Award, Second place; Annual Meeting, Indiana Branch, American Society for Microbiology

Academic:

- 1999.03 Basil G. Bibby Award in Cariology, IADR Cariology Research Group, Vancouver, Canada.
- 2000.02 Honorary member of the OKU (Omicron Kappa Upsilon) Honor dental society, Theta Theta Chapter
- 2002.03 IUPUI 2002 Outstanding female faculty and staff leader nominee
- 2003.09 Indiana Dental Association/IUSD Outstanding Teacher of the Year Award
- 2004.04 Trustees Teaching Award, Indiana University (IU)
- 2005.04 IUSD Alumni Association Distinguished Faculty Award for Research
- 2005.04 Trustees Teaching Award, IU
- 2006.04 Trustees Teaching Award, IU

- 2006.10 Outstanding Faculty Member of the Year, IUSD and Indiana Dental Association
- 2007.04 Trustees Teaching Award, IU
- 2007.08 World Congress of Minimal Invasive Dentistry-CAMBRA (caries management by risk assessment) Award
- 2008.04 Trustees Teaching Award, IU
- 2008.08 World Congress of Minimal Invasive Dentistry-CAMBRA (caries management by risk assessment) Award
- 2011.4 Outstanding teacher-First year DDS class (University of Michigan School of Dentistry)
- 2012.4 Nominated by NIH for the Presidential Early Career Award in Science and Technology (PECASE)

Professional Memberships:

- 2000-present Hispanic Dental Association
- 1992-present American Association for Dental Research (AADR)
- 1992-present International Association for Dental Research (IADR)
- 2003-present American Dental Education Association (ADEA)
- 2000-present Hispanic Dental Association (HDA)
- 1991-present Venezuelan Society of Oral Pathology
- 1993-1998 American Society for Microbiology
- 1996-present European Organisation for Caries Research (ORCA)
- 2005-2009 Community-Campus Partnerships for Health (CCPH)

TEACHING:**Courses:****Indiana University:** *[Over 1500h of teaching, including lecture, lab and clinic]*

2002	293, Elective: Spanish I (Guest Lecturer, 3h)
2004-2005	A172, Clinical Seminar (Guest Lecturer, 1h)
2003-2004	D700, Clinical Procedures (Clinic Supervision)
2003-2004	D800, Clinical Procedures (Clinic Supervision)
2003	G655, Research (Student Supervision)
2000-2009	G910, Seminar: Preventive Dentistry (Guest lecturer, 1-2h)
2001-2002	G921, Research: Dental Materials, Dental Student's Master Thesis
1999-2009	G922, Research: Pediatric, Student's Master Theses
2001-2009	G925, Research: Operative, Student's Master Theses
1998-1999	G928, Research: Periodontics, Student's Master Theses
2002-2007	G930, Research: Preventive, Student's Masters Theses (DDS, Predental)
2007-2009	G931, Advanced Pediatric Dentistry (Lecturer, 6h)
2001-2009	G959, Graduate Oral Microbiology (Guest Lecturer, 1-2h)
1999-2009	H216, Hygiene: Chemistry (Lecturer, Cariology, 4h)
2003-2006	H999, Dental Hygiene Research (Assisted with Table Clinics)
1998-2009	R909, Advanced Preventive I, Lecture and Lab (Guest Lecturer, 9-18h)
2001-2009	R910, Advanced Preventive II (Guest Lecturer, 4-9h)
2001-2009	R911, Advanced Preventive III (Guest Lecturer, 2-4h)
1998-2005	R955, Graduate Oral Biology (Guest Lecturer, 2-4h)
1998-2009	R956, Current Topics Seminar (Guest Lecturer, 2-4h)
2001-2009	R958, Research: Oral Biology (Student's PhD thesis)
2006-2007	T501, Critical Analysis (PBL Tutor, 6h/w)
1998, 2000	T520, Critical Thinking (PBL Tutor, 6-8h/w)
1998-2000	T530, Molecular Cell Biology (PBL Tutor, 6-8h/w)
2001-2009	T540, Dental Sciences I (Guest Lecturer, 1-2h)
1998-1999	T551, Systems Approaches (PBL Tutor, 6-8h/w)
1999-2009	T562, Orofacial Biology (Director Cariology Modules, over 19h)
1998-2009	T642, Fixed Partial Dentures (Guest Lecturer, 3-14h)
1996; 2008	T720, Advanced Restorative (Guest Lecturer, 2h)
2001-2007	T740, Clinical Sciences III (Clinical Instructor, 4h/w)
2003-2009	T750, Clinical Sciences III (Clinical Instructor, 4h/w)
2001	T820, Dental Sciences IV (Guest Lecturer, 1h)
2002-2009	T840, Intramural Research (Predoctoral Research)
2002-2009	T840, Clinical Sciences IV (Clinical Instructor, 4h/w)
2003-2006	T840, Elective: Spanish (Lecturer, 1-3h)
2003-2009	T850, Clinical Sciences III (Clinic Instructor, 4h/w)
2006-2009	T850, Clinical Sciences IV (Clinic Instructor, 4h/w)

University of Michigan:

2009-2010	520, Clinical Foundations (Lab Instructor 2½ days/week)
2010	519, Clinical Foundations (Lab Instructor, 2 days/week)
2010	515, Ground Round (Organized 1 session- 4h)
2010-11	532, Cariology I (Course Director and Lecturer; including labs and clinic, ~83h)

- 2010 501, Introduction to the Profession (Mentored 2 students, ~4h)
- 2011-present 542, Cariology II (Course Director and Lecturer; including labs and clinic, ~111h)
- 2011-present 524, Pathways Program (Mentor 5 students: Jami Ballantine-Research Pathway; Demat Fazil-Clinical Pathway; Sarah Baxter- Research Pathway; Seth Dawson-Research Pathway; Jessica Schuwarz-Research Pathway)
- 2011-present 789 MCOHR Clinical Rotation Course (2h of lecture)
- 2011 UC151:05 The Art and Science of Dentistry in the 21st Century (2h lecture)
- 2012 INTMED606 Clinical and Translational Research-Preparaing for the Future (Seminar “Panel DisucssioN; T3-T4 translations research-questions and answers”); School of Public Health (2h)

Student Research Advisement:

Some relevant student projects:

- 1997-1998 Research co-mentor: Hart S (DDS). Measurement of root caries demineralization using microradiography and confocal microscopy.
- 1997-1998 Research mentor: Austin MS (DDS). An in vitro microbial model for studying root caries formation.
- 1997-1998 Research Mentor: Yang L (DDS). Secondary caries formation: Streptococcus mutans fluoride resistant and sensitive strains
- 1998-2000 Research co-mentor: Erickson J (DDS). In vitro secondary caries/microbial growth around different dental materials. [1999 ADA/Dentsply International Student Clinician Award; 2000 Quintessence Publishing Research Award; 2000 Pierre Fauchard Academy Award; 2000 Cyril S. Carr Dental Student Research Fellowship; 2000 1st place in ESPE clinical presentation award at Research Day]
- 1998-2000 Research Committee Member: Selders RJ (MSD Periodontics). Role of fimbriation in root caries: an in vitro study.
- 1999-2000 Research co-mentor: Edwards M (DDS). The penetration of Streptococcus mutans through dentin tubules.
- 1999-2000 Research mentor: Henn L (DDS). Effect of heated fluoride treatment on secondary carious lesions.
- 1999-2000 Research Mentor: Sordelli AE (MSD Periodontics). In vitro adherence of *Streptococcus mutans* to root surfaces.
- 1999-2001 Research co-mentor: Dunn E (DDS). Measurement of early dentin lesions using QLF. [2000 2nd place in ESPE clinical presentation]
- 1999-2001 Research Co-mentor: Hervas JM (DDS), Prevention of secondary caries after thermocycling using fluoride and chlorhexidine varnishes.
- 1999-2001 Research committee member: Quackenbush B (MSD Pediatric Dentistry). An evaluation of recurrent caries using quantitative light fluorescence. [2000 American Academy of Pediatric Dentistry Graduate Student Research Award]
- 2000-2001 Research Committee member: Ferry A (DDS). Secondary caries around aged, recharged fluoride-releasing dental materials.
- 2000-2001 Research mentor: Jaret M (DDS). Inhibition of secondary caries root lesion progression with different varnishes.
- 2000-2005 Research Committee Member: Toro M (PhD). In vitro microbial root caries model to test preventive products.

- 2001-2006 Research Mentor: Abazari L (DDS and MSD Pediatric Dentistry). Anticariogenic properties of aged resin modified glass ionomers.
- 2002-2003 Research mentor: Bahleda L (DDS). Evaluating the use of caries risk assessment procedures by Indianapolis area dentists. [2003 P&G Research Award].
- 2002-2004 Research Committee member: Sa LT (MSD Operative Dentistry). Fluoride releasing materials: their anticariogenic properties tested in in vitro caries models. [2003 Maynard Hine Award]
- 2002-2004 Research Mentor: Hazzelrigg CO (MSD Pediatric Dentistry). Fluoride varnish concentration gradient effects measured by quantitative light fluorescence.
- 2003-2004 Research mentor: Wilmore AM (DDS). Assessing the cariogenicity of non-diet soft drinks. [2004 Travel grant from IADR (\$500) + ADEA Listerine/Preventive Dentistry Award (\$2500); Cyril S. Carr Dental Student Research Scholarship Award During Research Day; Procter and Gamble Award for Excellence in Preventive Dentistry Oral Health Care; and IUSD Student Research Group Award]
- 2003-2005 Research committee member: Moazin E (MSD Operative Dentistry). Amalgam marginal integrity and outer lesion relationship to wall lesions.
- 2003-2006 Research mentor: Yousef M (PhD). Effects of topical fluoride and laser irradiation on caries inhibition. [Received Trident Award for Innovation in Dental Care]
- 2004-2005 Research mentor: Pflum D (DDS). In vitro evaluation of the anti-cariogenic potential of human monoclonal antibodies to *Streptococcus mutans*. [Won the Procter & Gamble Award for Excellence in preventive oral Care. Research Day 2005]
- 2004-2006 Research Committee Member: Rusnak MK (MSD Pediatric Dentistry). Oral care practices for children undergoing hematopoietic stem cell transplant.
- 2004-2006 Research mentor: Ley P (DDS). Evaluation of the implementation and effectiveness of caries risk assessment at Indiana University School of Dentistry [2006 Cyril S. Carr Dental Student Research Scholarship]
- 2004-2007 Research Committee Member: Totiam P (PhD). A new in vitro model to study the relationship of gap size and secondary caries.
- 2004-2007 Research mentor: Lee T (MSD Pediatric Dentistry). Cariogenic potential of toddler formulas: protein content and sweeteners.
- 2004-2007 Research Mentor: Swati Singh (MSD Pediatric Dentistry). Assessing the cariogenicity of soft drinks in a pediatric population. [AAPD for first place Poster Clinic presentation; Delta Dental grant]
- 2005-2007 Research Committee member: Neena Kamath (MSD Operative Dentistry). Effect of ozone therapy in arresting the progression of secondary caries.
- 2005-2007 Research Committee Member: Zheng C (PhD). *Streptococcus mutans* NG8 and PC3370 biofilm in different sucrose concentrations.
- 2005-2007 Research Mentor: Ahmer Qamar (MSD Operative Dentistry). Validation of the modified Schirmer test for unstimulated salivary flow measurement.
- 2006-2007 Research Committee Member: Stahl JM (MSD Operative Dentistry). Effects of frequency of exposure on the cariogenicity of soft drinks.
- 2006-2007 Research mentor: Joseph K, Moody (Hygiene). Catching cavities: you, your baby and xylitol.

- 2006-2008 Research Committee Member: Orbito I. Patangan (MSD Pediatric Dentistry). Title: Correlation of Parenting Styles with the Prevalence of Childhood Caries in the Pediatric Patient.
- 2006-2008 Research Committee Member: Samuel Bullard (MSD Pediatric Dentistry). Correlation Between Health Literacy and Dental Caries Prevalence in a Pediatric Population.
- 2006-2008 Research mentor: Amenah Thneibat (MSD Operative Dentistry). Anticariogenic and antibacterial properties of a copper varnish using an in vitro microbial caries model. [\$2000 grant from Cooley-Cooley]
- 2006-2008 Research mentor: Leonor Villalta (MSD Operative Dentistry). The validity and reproducibility of occlusal caries under clear sealants employing QLF devices. [AADR Travel Block Grant to present and attend 2008 IADR meeting].
- 2006-2008 Research mentor: Tamara Smith (DDS). In-vitro Remineralization Effect of MI Paste in enamel lesions [Procter and Gamble Award for Excellence in Preventive Oral Health, Second Place, 2008]
- 2006-2010 Research Mentor. Aaron Stump (DDS). The Effects of Magnification on Caries Detection. Also: Effect of Magnification on Clinical-Decision Making [2008 and 2009 IU Graduate School grant; 2009 Cyril S. Carr Research Scholarship; 2009 Johnson & Johnson Listerine Student Research Group Award, 1st Place; 2009 AADR Student Fellowship; 2010 1st place Cyril Carr Student Research Scholarship]
- 2006-2009 Research mentor: Erin Coleman (DDS). The antimicrobial effect of a copper-containing sealant. [Grant from Cooley and Cooley for \$2,500; Grant from Cooley and Cooley for \$2,000; American Dental Association/Dentsply International Student Clinician Award, Second place, 2008; 2009 Procter & Gamble Award for Excellence in Preventive Oral Health Care, 2nd Place]
- 2007-2008 Research Mentor: Jennifer Waller Smith (DDS). Restorative Treatment Decisions for Dental Caries Management.
- 2007-2009 Research Committee member: Hani Nassar (MSD Operative Dentistry): Effect of Gap Geometry on Secondary Caries in Vitro.
- 2007-2009 Mentor: Diana Catt (Post doctoral fellow). Role of plaque microflora as a dental caries predictor.
- 2007-2009 Research Comiitee member: Hartley D (PreDDS; DDS). Correlation of early caries exams and treatment plan at indiana university school of dentistry
- 2007-2009 Research Committee Member: Ahmer Senan (MSD Operative Dentistry). In Vitro Effect of Different Types of Enamel Conditioners On Retention and Penetration of Glass Ionomer Based Pit and Fissure Sealants.
- 2007-2009 Research Committee Member: Cody Hughes (MSD Pediatric Dentistry). A Comparison of Microtensile Bond Strengths of Traditional Acid Etch, Self-Etch Adhesive and Self-Etch Light Cured Pit and Fissure Sealants.
- 2007-2009 Research Committee member: Swati Chitre (MSD Operative Dentistry). Evaluation Of Two Methods Of Fissure Treatment Before Sealant Placement On Different Caries Levels. [2009 Wrigley Jr. Student Award (Master's level), 2nd Place]
- 2007-2009 Research mentor: Grant Abernathy (DDS). Comparison of different QLF instruments for caries detection under sealants.

- 2008-2009 Research co-mentor: A. Kurshuk (DDS). Effects of Sealant Thickness on Quantitative Light-induced Fluorescence Measurements. [2009 American Dental Association/Dentsply International Student Clinician Award, 1st Place; 2010 won first place in three awards: Procter & Gamble Award for Excellence in Preventive Oral Health Care; Johnson & Johnson Listerine Student Research Group Award; American Dental Association / Dentsply International Student Clinician Award]
- 2008-2009 Research mentor: Heather Hirsch (DDS): In vitro enamel remineralization of different remineralizing products. [IU Graduate School Travel fund (\$800); IU Graduate Student Organization (\$500); Grant from Cooley and Cooley \$500; 2009 American Dental Association/Dentsply International Student Clinician Award, 2nd Place]
- 2008-2010 Research Mentor: Wallace McCarlie (PhD). Influence of Human Genetics on Bacterial Colonization in Caries Experience. [CTSI-NIH Fellow (NIH-CTSI-IUPUI): 2008-2009; CTSI-NIH Fellow (NIH-CTSI-IUPUI): 2009-2010] Effects of fluoride exposure on aged resin modified glass ionomers. Secondary caries around aged, recharged fluoride-releasing dental materials.
- 2009-2010 Research mentor: Diana Wu (DDS). Evaluating the Variation in Treatment Decision of Dental Students at IUSD
- 2009-2010 Research Mentor: David Wagner (DDS). Effect of fluoride during the aging of fluoride releasing materials on secondary caries prevention.
- 2009-2010 Research Mentor: Isiutsina Volha (DDS). Evaluation of Caries Risk Assessment at IUSD. [2010; American Dental Association/Dentsply International Student Clinician Award, 2nd place; 2011 Academy of Operative Dentistry Student Award; 2011: Cyril S. Carr Research Scholarship; 2012: ADEA Award]
- 2010-2011 Research Mentor: Lauren Vainio (DDS). Variability in Restorative Treatment- Decisions of Dental School Faculty (University of Michigan)
- 2010-present Committee Member: Hani Nassar (PhD; Indiana University)
- 2011-present Research Mentor: Jamie Ballantine (DDS). Does the Use of Magnification Improve Occlusal Caries Detection and Affect Treatment Decisions in Clinicians of Varied Experience? (Research pathway, University of Michigan)
- 2011-present Research Mentor: Demat Fazit (DDS). Developing cases for an Online Cariology Virtual Clinic (Clinical pathway; University of Michigan)
- 2011 Research Committee Member: Carolina Lodi. *In Vitro* Evaluation of Probiotic Bacteria for their Efficacy in Preventing Primary Caries Development using a Multi-Species Microbial Artificial-Mouth Model. (PhD; Universidade Estadual Paulista Júlio de Mesquita Filho, Faculdade de Odontologia de Araçatuba)
- 2012 Comittee member. Two Master students Pediatric Dentistry: Lara Saleh and Litsa Karaouzas
- 2012 Research mentor: Sarah Baxter, Jessica Schuwarz, and Seth Dawson

SERVICE:

Department Committees:

Indiana University:

- 1997-2009 Director, Microbial Caries Facility (Indiana University)
- 2001-2009 Director, Cariology Undergraduate Education Program/Caries Management Program, Department of Preventive and Community Dentistry, Indiana University
- 2006-2009 Member of several Tenure Primary Committees (Indiana University)

University of Michigan:

- 2011 Chair of peer review ad hoc committee (CRSE: University of Michigan)

School of Dentistry Committees:

Indiana University:

- 1999-2000 Member of IUSD Faculty Affairs Committee
- 2002-present Member of IUSD Research Day Committee
President (2004-2005)
Past-president (2005-2006)
- 2003, 2006, Awards Committee for IUSD Research Day (Chair, 2003; 2006 as past-president
2008 of the INAADR; 2008, member)
- 2005-2009 Faculty Search Committee, Department of Oral Facial Development (Pediatric
Dentistry), 2005, 2006, 2008-2009.
- 2006 Faculty Search Committee, Department of Preventive Dentistry
- 2006-2007 Faculty Search Committee, Department of Oral Biology
- 2006-2007 Faculty Search Committee, Department of Restorative Dentistry
- 2007 Faculty Search Committee, Chair for Department of Pediatric Dentistry
- 2005-2006 Chair, Research Accreditation Ad Hoc Self-Study Committee
- 2005-2006 Member, Clinical Accreditation Ad Hoc Self Study Committee
- 2006-2009 IUSD Admissions Committee
- 1999-2009 PBL Tutor Training Committee
- 2000-2009 IUSD Research Committee
- 1999-2008 Committee to Review Undergraduate Research Proposals (previous T35 grant)
- 2006-2008 Committee to select IDA Research Faculty Award (Chair, 2006)
- 2004-2009 IUSD Executive committee
- 2005-2009 Ad Hoc Axium Clinical Forms Advisory Committee
- 2006-2009 IUSD Alumni Board
- 2008 Ad hoc Committee to review IUSD mission statement
- 2001-2009 Member Curriculum Assessment Committee
- 2007-2009 Liason between IUSD and ADEA CCI
- 2008-2009 IUSD Coordinating Committee for Curricular Reform (CCCR)
- 2008-2009 Chair of Clinical Subcommittee of CCCR
- 2009 Member of Review and Enhancement Committee

University of Michigan:

- 2009-2010 Member of the Clinical Implementation and Curriculum Innovation Committee
- 2010-present Member of the Curriculum Subgroup: Oral Health Sciences Core
- 2010-present Member of the Ground Rounds Curriculum Committee

- 2010-present Member of a Search and Screen Committee for Pediatric Dentistry (3 positions)
- 2010 Interviewer for dental applicants
- 2011-2014 Member of the Honor System Review Committee
- 2011-2013 Member of the Executive Committee
- 2011-present Member of COHRI Caries Risk National Committee
- 2011-present Chair, Ad hoc curriculum committee for Health Promotion and Disease Prevention

University Committees:

Indiana University:

- 1999-2009 Member of IUPUI Faculty Handbook Committee (1999-2005; 2007-2008; 2009)
- 2005-2009 Reviewer for the IUPUI, NIH Roadmap Initiative Grants and Research Support Funds Grants (RSFG); Office of the ViceChancellor for Research (2005; 2007; 2008;2009)

Journal Reviewer:

- 1995-present General Dentistry
- 1996-present Caries Research
- 1999-present Journal of Dental Research
- 1999-present Venezuelan Research Journal (Editorial Board Member)
- 1999-2000 Indiana Conference Proceedings (Assistant Editor)
- 2003 Dental Decks
- 2005-present Acta Odontologica Scandinavica
- 2005-present European Journal of Oral Sciences
- 2006 American Journal of Orthodontics & Dentofacial Orthopedics
- 2006-present American Journal of Dentistry
- 2007-present Journal of Dental Education
- 2008-present Community Dental Health
- 2009-2010 Dental Clinics of North America issue on dental caries (Co-guest Editor)
- 2009 Current Microbiology
- 2009-present Operative Dentiary
- 2009-present Journal of the American Dental Association
- 2010-present Journal of Public Health Dentistry
- 2010-present J Applied Oral Sciences
- 2011-present Revista Venezolana de Investigacion Odontologica
- 2011-present Clinical Oral Investigations

NIDCR Reviewer:

- 2005-present NIDCR
- 2008, 2009, 2010 Chair, NIDCR Special Emphasis Panel
- 2009 Invited to become member of Scientific Review Panel
- 2009-present Member of Data Safety and Monitoring Board for the Centers for Research to Reduce Disparities
- 2011 Member of R34 special review panel (Behavioral Research)
- 2012 Member of U01 special review panel

Other Grant Reviewer Roles:

- 1994-1995 Reviewer, Oral Microbiology and Immunology and Cariology, Ministry of Science and Technology, Republic of Croatia
- 2010 Reviewer for Fondecyt (Chilenean “NIH”)
- 2011 Reviewer for Venezuelan Grant Association (Venezuelan “NIH”)
- 2011 Reviewer for the Research Office of the Government of Kuwait

Other Promotion and Tenure Reviewer Roles:

- 2009-2010 Reviewer for faculty in University of California, University of Texas, University of Illinois
- 2011 Reviewer for faculty in the University of California Pacific, and University of Iowa

Professional Organization Service:

- 1991 Venezuelan Society of Oral Pathology; founding member
- 1992-1997 Indiana Branch of the American Society for Microbiology
- 1992-present International Association for Caries Research (IADR)
- 1992 Venezuelan Section of the IADR
- 2010-2013 Member IADR Young Investigator Award Committee
- 2009,2010, 2011 Reviewer for research projects for SouthAmerican Region IADR
- 2012 Nominated to Chair the 2012-2013 Young Investigator Award Committee
- 2010-present IADR Education Research group
- 2010-present Treasurer
- 2004-present IADR Cariology Group
- 1999 IADR Cariology Group Abstracts (Washington DC)
- 1999 Bibby Cariology Award committee
- 2001 AADR Cariology Group Abstracts (Chicago)
- 2004-2006 Secretary/treasurer
- 2005-2006 Group Program Chair, Cariology Group, AADR and IADR, Orlando
- 2006-2007 President-elect and Councilor
- 2006-present Bibby Cariology Award committee
- 2007-2008 President
- 2007-2008 IADR Borrow’s Memorial Award Selection Committee
- 2008-2009 Past-President and Councilor
- 2008-2009 IADR Cariology Group Program Chair (Miami IADR Annual meeting)
- 2009-2010 AADR Cariology group-Symposium and lunch and learn organizer (Washington DC)
- 2010-2012 Group Program Chair, Cariology Group, AADR and IADR (San Diego, Tampa, and Rio de Janiero)
- 1996-present European Organisation for Caries Research (ORCA)

- 2010 Cariology Curriculum planning committee-Berlin
- 2001-present Indiana Chapter, Hispanic Dental Association
 2001 Founding member
 2001-2002 President, Indiana Section of the Hispanic Dental Association
- 2002-present Indiana Section of AADR
 2005, 2006, 2008 IUSD Research Day Reviewer
 2002-2004 Secretary, Indiana Section of AADR
 2004-2005 President, Indiana Section of AADR
 2005-2006 Immediate Past-president
 2005-2006 Annual Meeting Chair, Indiana Section of AADR
- 2003-present American Dental Education Association (ADEA)
 2008-2010 Chair-elect, Cariology Special Interest Group (SIG)
 2009- Co-Chair ADEA working group on dental caries
 2009-2011 Symposium organizer (Washington DC, San Diego)
 2010-2011 First Chair, Cariology Section ADEA
 2013 Symposium organizer (Seattle, Washington)
- 2005-2009 Community-Campus Partnerships for Health (CCPH)
- 2009- Indiana Statewide Planning Council (Indiana State Department of Health)
- 2010-present Member of the State of Michigan Fluoridation Advisory Committee
- 2011-present Member of the ADA Quantifying, Understanding and Eliminating Severe Tooth Decay in AI/AN Children (QUEST) Task Force
- 2012-present Member of the International Caries Classification and Management System book group

Invited Presentations and Continuing Education:

- 1988.11 **Fontana M.** New Methods in the Diagnosis and Treatment of Dental Caries, III alumni meeting of the UCV Dental School, Caracas, Venezuela.
- 1990.07 **Fontana M.** Effectivity of Fluoride Mouthrinses Given to Kindergarten Children, XXXIII Venezuelan National Dental Congress, Venezuela.
- 1991.05 **Fontana M.** Epidemiological Study of Malnutrition and Dental Caries in a Poor Area of Caracas. II National Congress of Pediatric Dentistry, Venezuela.
- 1992.04 **Fontana M.** Effect of 0.2% NaF Mouthrinses in Kindergarten Children, II Venezuelan National Journeys of Dental Research, Venezuela.
- 1995.06 **Fontana M.** Uses in Dentistry of an *in-vitro* Microbiological Model for Caries Development and Prevention, First Meeting of the Venezuelan Branch of the International Association for Dental Research and V Venezuelan Metropolitan Dental Journeys, Venezuela.

- 1996.06 **Fontana M.** Secondary caries, confocal microscopy and dental research. Central University of Venezuela, Caracas, Venezuela.
- 1995.06 **Fontana M.** Secondary caries, confocal microscopy and dental research. Santa Maria University, Caracas, Venezuela.
- 1996.11 **Fontana M.** Antibodies to a mixture of *Streptococcus mutans* surface proteins enriched with fimbriae components: Role in dental caries prevention". Symposium on Immunology and the Oral Cavity, European Research Group of Oral Biology, Wales, UK.
- 1998.04 **Fontana M,** Gonzalez-Cabezas C. *In Vitro* Evaluation of a Novel Dental Material for its Efficacy in Preventing Secondary Caries using a Microbial Artificial-Mouth Model. Frankfurt, Germany. Sponsored by Ivoclar.
- 1999.02 **Fontana M.** Validation of *in vitro* models to test for dental materials, Naples, Italy, Sponsored by Ivoclar.
- 2000.01 **Fontana M.** Early Detection and Management of Secondary Caries. Indiana Section of the AADR, Indianapolis,.
- 2001.10 **Fontana M.** Caries Risk assessment and management training for all faculty at IUSD, 5h, sponsored by IUSD (Comprehensive Care Clinic), Indianapolis.
- 2002.01 Zandona A, **M. Fontana.** Presentation on caries risk assessment, American Association of Woman Dentists, Indiana Section.
- 2002.11 **Fontana M,** A. Ferreira Zandona, D. Zero. Caries Management Competency for Dental Students- Indiana University Model. Assessment Institute, IU
- 2002.11 **Fontana M.** New Advances in Caries Risk Activity. University of Medicine and Dentistry in New Jersey.
- 2002.12 **Fontana M.** Clinical Preventive Dentistry Leadership Conference, Cincinnati, Participant.
- 2003 González-Cabezas C, **Fontana M.** Current research using new technologies for the detection and monitoring of secondary caries. Indiana Conference for Early Caries Detection III.
- 2004 **Fontana M.** New Advances in Caries Risk Assessment. Bloomington Dental Society.
- 2004.06 Zero D, **Fontana M,** Ferreira-Zandona A, Eggertsson H, Yoder K. Techniques for tooth-surface assessment-Indications for sealant placement. I presented at the Centers for Disease Control expert panel meeting on School-based sealants programs.
- 2004.09 **Fontana M.** A new way to look at dental caries. West side dental study club. Indianapolis, IN.
- 2004.10 **Fontana M.** Host-environment interactions in caries and periodontal disease; Research Agenda for Hispanics in the 21st Century. Hispanic Dental Association, Puerto Rico.
- 2004.12 **Fontana M.** A new way to understand dental caries. Pediatric Residents at Riley Hospital.
- 2005.03 **Fontana M.** A perspective on the present and future management of dental caries. IADR symposium. [Sponsored by CDC].
- 2005.03 **Fontana M.** A new way to understand dental caries. Training program for state dentists. Ohio State University [Dr. Mark Siegal].

- 2005.04 **Fontana M.** Xylitol: Should we be recommending it?. Indiana Society of Pediatric Dentistry, 2005 Annual Meeting, Indianapolis.
- 2005.05 **Fontana M.** Techniques for tooth-surface assessment-Indications for sealant placement. National Oral Health Conference on Indications for Sealant Placement, Pittsburg. [Dr. Gary Rozier. Organized by CDC].
- 2005.05 **Fontana M.** Risk Assessment and Tooth Surface Assessment, University of Michigan, Ann Arbor
- 2005.08 **Fontana M,** Gonzalez C. Update on Caries Management Program at Indiana Univeristy. [Presented by Dr. Gonzalez during the 2005 Cambra meeting in San Diego].
- 2005.09 **Fontana M.** Recent Updates in caries Risk Assessment. Given as a CE course to the Dental hygiene Series, Indianapolis.
- 2005.09 **Fontana M,** Zero D. Techniques for tooth-surface assessment-Indications for sealant placement. Presented at the CDC-Grantee workshop-Austin, Texas.
- 2005.10 **Fontana M,** Zero D. Techniques for tooth-surface assessment-Indications for sealant placement, Minimal Intervention Dentistry and Caries Risk Assessment. Given as a CE course to dentists and dental hygienists in New Hampshire.
- 2005.12 **Fontana M,** Zero D. Techniques for tooth-surface assessment-Indications for sealant placement. Given to the Maternal and Child Bureau meeting in Washington DC.
- 2006.02 **Fontana M.** Techniques for tooth-surface assessment-Indications for sealant placement; caries detection and risk assessment. Hygiene Dental Association Center for Lifelong Learning Annual Meeting, Spokane, Washington (6h).
- 2006.03 **Fontana M.** Recent Advances in managing dental caries. Boston University HIV Annual Conference.
- 2006.03 **Fontana M.** Recent Advances in caries risk assessment. Delta Dental of Massachussets.
- 2006.04 **Fontana M.** What Assessment Methods Are Necessary In School Programs To Determine Which Tooth Should Be Sealed? National Oral Health Conference, Little Rock, Arkansas. [Organized by CDC]
- 2006.05 **Fontana M.** Caries Management: Beginning with Detection and Diagnosis. American Academy of Pediatric Dentistry Annual Meeting. Proceedings, p 55-67.
- 2006.05 **Fontana M.** Caries Management: Beginning with Detection and Diagnosis. Indiana Sealant Program.
- 2006.06 **Fontana M.** Techniques for tooth-surface assessment-Indications for sealant placement. Michigan Primary Care Association, Oral Health Conference.
- 2006.10 **Fontana M.** Techniques for tooth-surface assessment-Indications for sealant placement. ADA meeting, Las Vegas.
- 2006.10 **Fontana M.** Techniques for tooth-surface assessment-Indications for sealant placement. Tennessee Public Health Association Meeting: Charting the Course for Public Health.
- 2006.10 **Fontana M.** Caries detection and dental sealants. California Children's Dental Disease Prevention Program Annual Conference, Sponsored by: California Department of Health Services and University of California, San Francisco, CA.
- 2006.11 **Fontana M.** Caries Management: Transitioning from Education and Research to Improve Patient Care. Review of IUSD Cariology program -- Bridging the Gap

- Between Research and Practice Through Education. University of Florida, Gainesville, FL.
- 2006.11 **Fontana M.** Predicting Caries Risk in Underserved Toddlers. Children's Health Services Research, IU School of Medicine.
- 2006.02 **Fontana M.** Caries Management: Transitioning from Education and Research to Improve Patient Care. Review of IUSD Cariology Program -- Bridging the Gap Between Research and Practice Through Education. Midwest CAMBRA Colaition Meeting. [Meeting organizer and presenter]
- 2007.02 **Fontana M.** Recent advances in managing dental caries. West La Fayette Dental Society, LaFayette, IN.
- 2007.03 **Fontana M.** Caries Management: Transitioning from Education and Research to Improve Patient Care. IN-AADR, Indianapolis, IN.
- 2007.03 **Fontana M, Zandona A.** Recent Advances in Caries Detection and Diagnosis. University of Minnesota, Minneapolis, MN.
- 2007.03 **Fontana M** (2007) Recent advances in managing dental carie. Michigan Dental Assistants Association, Flint, MI.
- 2007.03 **Fontana M** (2007) Sealing Non-Cavitated-Lesions: Implications for Practice, NOHC, Denver, CO.
- 2007.11 **Fontana M** (2007) Sealing Non-Cavitated-Lesions: Implications for Practice. Dental public Health Web-Based Seminar, University of San Francisco, School of Dentistry.
- 2007.07 **Fontana M** (2007) Techniques of Tooth Surface Assessment: Indications for Sealant Placement. Tennessee Department of Health, Oral Health Services Section, Annual Public Dental Health Conference, Nashville, TN.
- 2007.10 **Fontana M** (2007) Recent Advances in Caries Detection, Diagnosis, Risk Assessment and Management. Florida Annual Public Health Dental Meeting, Tampa, FL.
- 2007.09 **Fontana M** (2007) Recent Advances in Caries Detection, Diagnosis, Risk Assessment and Management. Cincinnati Pediatric Dentistry meeting.
- 2007.09 **Fontana M** (2007) Techniques of Tooth Surface Assessment: Indications for Sealant Placement, 2nd Annual New England Rural Oral Health Conference, Northampton, MA.
- 2007.09 **Fontana M.** Techniques of Tooth Surface Assessment: Indications for Sealant Placement” Massachusetts Dental Hygienist’s Association Annual Meeting, Natick, MA.
- 2007.11 **Fontana M.** Use of Online Resources for Faculty Calibration and Training. November 2007, IUSD, Indianapolis, IN.
- 2007.11 Zero D, **Fontana M, Zandona A.** Caries Detection, Risk Assessment and Management. IUSD, Indianapolis, IN.
- 2008.01 **Fontana M.** Discussant. International Conference on Novel Remineralization Agents (ICNARA). Vina del Mar, Chile.
- 2008.02 **Fontana M.** Addressing terminology. February 2008. Central CAMBRA coalition meeting , American Academy of Operative Dentistry meeting, Chicago Illinois
- 2008.08 **Fontana M.** Management of dental caries throughout-life. Tennessee Dental Hygiene Association Annual Meeting.

- 2008.08 **Fontana M.** Assessing and Preventing Dental Caries. Fort Wayne Dental Hygiene. Association, Fort Wayne, IN.
- 2008.09 **Fontana M.** Recent advances in caries detection and diagnosis. Webinar, [Sponsored by Dentsply]
- 2008.10 **Fontana M.** Recent advances in caries detection, diagnosis and risk assessment: implications for sealant placement. Ester Wilkins symposium. Forsyth School of Dental Hygiene.
- 2008.11 **Fontana M,** Tratjenberg C. Caries Management by Risk Assessment-An Evidence-Based Approach. University of Texas-Houston Dental Branch.
- 2009.02 **Fontana M,** Peters M. Practical strategies/materials for clinical caries control. Academy of Operative Dentistry.
- 2009.03 Anderson M, **Fontana M** (2009) Challenges for Cariology in US dental education. ADEA meeting, Cariology SIG symposium.
- 2009.3 Gonzalez-Cabezas C, **Fontana M** (2009). Microbial models in secondary caries research-what are we modeling? IADR meeting symposium on Biological Modeling of Secondary Caries.
- 2009.05 **Fontana M,** Veronneau J. Review of diagnostic indexes for caries activity and severity. International Dental Jounies of Quebec.
- 2009.06 **Fontana M.** Advances in dental caries. ADHA meeting.
- 2009.07 **Fontana M.** Advances in dental caries risk assessment. UnderOneRoof meeting.
- 2009.08 **Fontana M.** Recent Advances in dental caries. American Dental Asissting Association (Indianapolis)
- 2009.09 **Fontana M.** Variations in tooth assessment- Eastern CAMBRA meeting.
- 2009.11 **Fontana M,** Tratjenberg C. Caries Management by Risk Assessment-An Evidence-Based Approach. University of Texas-Houston Dental Branch.
- 2009.11 **Fontana M.** Advances in cariology; How to write a Scientific Paper. Regional IADR meeting, Venezuela
- 2010.01 **Fontana M.** Caries Detection and Indications for Sealant Placement. Webinar for Delta Dental
- 2010.02 **Fontana M.** Update on dental terminology. Central CAMBRA meeting. Academy of Operative Dentistry.
- 2010.02 **Fontana M.** Recent Advances in Caries Detection and Diagnosis. Chicago Dental Society. Midwinter meeting.
- 2010.04 **Fontana M.** Horowitz Memorial Symposium. What you need to know about fluorides and fluoridation. Topical fluorides. National Oral Health Conference, St. Louis.
- 2010.05 **Fontana M.** Sealing caries – an update on new recommendations and research. Oral Health Promotion and Policy Research (OPPR) Seminar Series, UoM.
- 2010.06 **Fontana M.** Review of current sealant recommendations-Techniques for tooth surface assessment-Indications for sealant placement (Washington State Director’s meeting + State Dental Meeting)
- 2010.06 **Fontana M.** Curriculum Implementation Challenges (1h). Workshop on the Development os a European Curriculum for Cariology. Berlin, ORCA
- 2010.07 **Fontana M.** Modernizing and Harmonizing Cariology Education using Common Evidence-based Concepts and Terms: International Challenges”. Keynote talk (1h). ORCA Congress, Montpellier France, July.

- 2010.09 **Fontana M.** Review of New Sealant Recommendations: Techniques for Tooth Surface Assessment- Indications for Sealant Placement. Hygiene Faculty Retreat. UoM.
- 2010.09 **Fontana M.** Sealing caries – an update on new recommendations and research. Webinar. Willamete Dental.
- 2010.10 **Fontana M.** Review of New Sealant Recommendations: Techniques for Tooth Surface Assessment- Indications for Sealant Placement. New Zealand.
- 2010.10 **Fontana M.** In vitro Microbial Caries Model. New Zealand.
- 2010.10 **Fontana M.** Avances en Detección, Diagnóstico, y Determinación de Riesgo de Caries: Implicaciones para el uso de Estrategias para la Prevención y Manejo de Caries Dental. Keynote, IADR meeting Chile.
- 2011.01 **Fontana M.** Translating the Caries Management Paradigm into Practice: Opportunities, Needs and Challenges (1h). 2011 CDA CAMBRA meeting.
- 2011.02 **Fontana M.** Updates in Cariology Education-Survey results. Central CAMBRA meeting.
- 2011.03 **Fontana M** (2011) Challenges and opportunities in cariology. IADR Symposium, San Diego.
- 2011.03 **Fontana M** (2011). Sealing Caries. Michigan-Brazilian Symposium (Ann Arbor)
- 2011.04 **Fontana M** (2011). Cariology, risk assessment and sealants. Universidad de Antioquia International Symposim in celebration of its 70 years, Medellin, Colombia.
- 2011.05 **Fontana M.** Defining Dental Caries for the XXI century: implications for the use of strategies to control dental caries. 1st International Congress of the Colombian Association of Dental Schools, and First Latin American meeting for an Alliance for a Cavity Free World. Keynote. Cartagena, Colombia.
- 2011.06 **Fontana M.** Cariology 2011. Caries Detection, dianogiss, risk assessment and use of sealants. Universidad Rey San Carlos. Madrid, Spain
- 2011-06 **Fontana M.** A review of sealant recommendations. Michigan Department of Community health. Seal! Michigan Workshop (Lansing)
- 2011.09 Gonzalez C and **Fontana M.** Caries Management in the XXI Century –Paradigm Changes. Community and Outreach in service retreat (Battle Creek).
- 2011.09 **Fontana M** and Gonzalez C. Assessing student learning with multiple-choice questions that develop critical thinking (Faculty in training, School of Dentistry).
- 2011.09 **Fontana M.** 28th Biennial Easlick Symposium - Pediatric Caries Prevention in the 21st Century. (Ann Arbor)
- 2011.09 **Fontana M** The road to developing evidence-based recommendations. A sealant story. European Association of Dental Public Health. 16th Annual Meeting. Rome, Italy.
- 2012.01 **Fontana M.** Are we ready for definitive xylitol recommendations? 2nd international ICNARA meeting. Vina del Mar, Chile.
- 2012.02 **Fontana M.** New antibacterial and remineralization strategies: its implementation in educational programs and practice. What helps us to decide when the evidence concludes: insufficient evidence? Central CAMBRA meeting, Academy of Operative Dentistry (Chicago)

- 2012.03 **Fontana M.** Cariology Education in Dental Schools- ADEA Cariology Section members Forum meeting (Orlando).
- 2012.05 **Fontana M,** Gonzalez-Cabezs C. Assessing critical thinking and hands-on learning in cariology in a new curriculum. Center for Research on Learning and Teaching. 50th Anniversary Celebration
- 2012.06 **Fontana M.** Caries Management by Risk Assessment. 2012 Michigan Oral Health Conference. Lansing, Michigan.
- 2012.06 Twetman S, **Fontana M,** Featherstone J. Risk assessment: Can we achieve consensus? Caries Management Pathway Conference, Pittsburg, PA.
- 2012.06 **Fontana M.** Best practices and the current evidence base for effectiveness and efficacy of school-based sealant programs. Meeting: Assuring Quality in School Sealant Programs: Best Practices, Quality Assurance, and Program Implementation. Maine.
- 2012.09 **Fontana M.** Caries detection, risk assessment and management for the pediatric patient. Venezuelan Society of Pediatric Dentistry. Caracas, Venezuela.
- 2012.10 **Fontana M.** Provost's Seminar on Teaching entitled "Teaching in the Cloud: Using Google Apps & Other Online Collaboration Tools for Student Engagement".

GRANTS AND FELLOWSHIPS: (Information below is in many cases confidential)

NIH or Federal Grants and Contracts:

Past:

1. Early caries detection and intervention.
Role: PI Project 1-Indiana: M Fontana; Program Project PI: James Wefel
Sponsor: NIH (P01 DE13540)
Dates: 2001-2005
Total:\$5,999,879/5 year (\$570,110 for my project/5 years)
2. Caries Risk Prediction in Underserved Toddlers
Role: PI: Fontana M
Sponsor: NIH (R21 DE016451)
Dates: 2004-2006
Total Direct: \$250,000
3. Health Literacy in an Ethically Mixed Panel of Mothers of Toddlers
Role: Co-investigator: Fontana M
Sponsor: NIH
Dates: 2005-2006
Total: \$75,750
4. Clinical Validation of Combined ICDAS/QLF Exam for Early Caries Detection.
Role: Co-investigator: M. Fontana [10% Y1-3; 5 % Y 4-5 Effort]
Sponsort: NIH(R01 DE017890-01)
Dates: 2006-2010
Total Direct: ~\$767,730/Year
5. Tracking DNA transfer in oral biofilms.
Role: Co-Investigator: M Fontana; PI: Dr. D. Galli
Sponsor: NIH R01
Dates: 2006-2008
Total: \$378,750
6. Effectiveness of Sealing Caries: A Way to Reduce Disparities in Dental Caries.
Role: PI: M. Fontana [20 % Effort]
Sponsor: NIH, R21 (R21DE018115-01)
Dates: 2007-2009
Total Direct: \$516,125
7. Caries Risk Assessment Instrument for Young Adults
Role: Consultant
Sponsor: NIH (R43 DE016767-01), SBIR Phase I grant application
Dates: 2005-2007
Total: 250,000

Active:

1. Quantitative and Qualitative Assessment of Caries Activity
Role: Co-investigator: M. Fontana [10 % Effort]
Sponsor: NIH (R21DE018390-01A2)
Grant Number: R21
Dates: 2009-2011 (no year extension 2012)
Total Direct: \$275,000
2. Assessing caries risk in underserved toddlers in primary healthcare settings
Role: PI [45% effort]
Sponsor: NIH; R01(1-U01-DE-021412-01-A1)
Dates: 2011-2016
Total Direct: \$7,569,792.00

Submitted and Pending:

1. Monitoring of Dental Sealants' Optical Coherence Tomography (OCT)
Role: Fontana-Co-Investigator [10% effort]
Sponsor: NIH-R21
Dates: 2011-2013
Total Direct: \$42,417
2. Sealing caries: A way to address disparities in dental caries
Role PI: Fontana
Sponsor: NIH (R01)
Dates: 2011-2016
Total Direct: ~\$500K/year
Will resubmit in 2013 (RCT, 2-3 sites)

Corporate Grants and Contracts: (List does not include grants received by my students for any of projects or Masters or PhD theses. Those other awards and grants are available upon request.)

Past:

1. Analysis of samples for cotinine.
Role: PI
Sponsor: Yiming Li laboratory, IUSD
Dates: 1997
Total: ~\$2000
2. Evaluation of a microbial model
Role: PI
Sponsor: Dentsply
Dates: 1997
Total= \$2475
3. Evaluation of Enamelon

- Role: PI
Sponsor: Enamelon
Date: 1997
Total: \$13,164
4. In vitro microbial model testing of fluoride varnish
Role: PI
Sponsor: Ivoclar
Date: 1997
Total: \$6,872
5. *In vitro* evaluation of an improved novel dentifrice for its efficacy in preventing primary caries (study #3).
Role: PI: Fontana M
Sponsor: Enamelon Research
Dates: March 9-May 1 1998
Total: \$7,095
6. In vitro evaluation of an improved novel dentifrice for its efficacy in preventing primary caries (study #4).
Role: PI: Fontana M
Sponsor: Enamelon Research
Dates: May 25-July 10 1998
Total: \$7,095
7. An in vitro evaluation of several dentifrices for their efficacy in preventing primary caries development (MCM-1/C98-3).
Role: PI: Fontana M
Sponsor: Proctor and Gamble
Dates: September-November 98
Total: \$10,000
8. An in vitro evaluation of several dentifrices for their efficacy in preventing primary caries development (MCM-2/C98-4).
Role: PI: Fontana M
Sponsor: Proctor and Gamble
Dates: September-November 1998
Total: \$10,000
9. Measurement of inhibition of demineralization after application of a fluoride-containing varnish to sound teeth (C98-5),
Role: PI: Fontana M
Sponsor: Ivoclar
Dates: November-December 1998
Total: \$8,000

10. Measurement of inhibition of demineralization progression after application of a fluoride-containing varnish to white spot lesions (C98-6).
Role: PI: Fontana M
Sponsor: Ivoclar
Dates: November-December 1998
Total: \$8,000
11. *In vitro* evaluation of hen egg IgY antibody to 65 kDa protein antigen of *Streptococcus mutans* for its efficacy in preventing primary caries development using a microbial artificial-mouth model (C99-6).
Role: PI: Fontana M
Sponsor: Procter and Gamble
Dates: 02/99-3/00
Total: \$18,400
12. *In vitro* evaluation of dentifrices for their efficacy in remineralizing and preventing primary caries progression using natural-surface enamel specimens in a microbial caries model (C99-1, C99-2, C99-3).
Role: PI: Fontana M
Sponsor: Procter and Gamble
Dates: 01/99-3/99
Total: \$30,000 (3 studies)
13. Teeth preparation
Role: PI: Fontana M
Sponsor: Procter and Gamble
Dates: 03 and 06/1999
Total: \$1,920
14. Early detection and intervention of secondary caries.
Role: Co-investigator: Fontana M, PI: George K. Stookey
Sponsor: Delta Dental Fund
Dates: 01/2000-12/2000
Total: \$55,429
15. *In vitro* evaluation of an antibody preparation for its efficacy in preventing primary caries development using a microbial caries model (C00-03).
Role: PI: Fontana M, Sponsor:
Sponsor: Galagen and Wyeth Nutritionals
Dates: 05/2000-6/2000
Total: \$13,000
16. *In vitro* evaluation of several dentifrices for their efficacy in preventing primary caries development using a microbial artificial-mouth model (C00-10).
Role: PI: Fontana M
Sponsor: Procter and Gamble

Dates: 06/2000-07/2000
Total: \$13,000

17. *In vitro* evaluation of several solutions for their efficacy in preventing primary caries development using a microbial artificial-mouth model (C00-11).
Role: PI: Fontana M
Sponsor: Proctor and Gamble
Dates: 09/00-10/00
Total: \$14,000
18. *In vitro* evaluation of several dentifrices for their efficacy in preventing primary caries development using a microbial artificial-mouth model (C00-19).
Role: PI: Fontana M
Sponsor: Proctor and Gamble
Dates: 10/00-11/00
Total: \$14,000
19. Advanced imaging technology for disease detection and control.
Role: Co-investigator: Fontana M
Sponsor: 21st Century Research and Technology Grant
Dates: 2000-2001
Total: \$1.65 million
20. Early detection and intervention of secondary root caries.
Role: PI: Fontana M
Sponsor: Delta Dental Fund
Dates: 01/2001-12/2001
Total: \$35,000
21. *In-vitro* development of carious lesions and plaque using a microbial artificial-mouth model for evaluation of a new diagnostic material (C00-12).
Role: PI: Fontana M
Sponsor: ESPE
Dates: 01/2001-03/2001
Total: \$15,000 (Total project cost \$27,405)
22. *In-vitro* evaluation of several dentifrices for their efficacy in preventing primary caries development using a microbial artificial-mouth model (C01-02).
Role: PI: Fontana M
Sponsor: Unilever
Dates: 01/2001-03/2001
Total: \$14,000
23. *In-vitro* evaluation of several dentifrices for their efficacy in preventing primary caries development using a microbial artificial-mouth model (C01-04).
Role: PI: Fontana M

Sponsor: Procter and Gamble
Dates: 02/2001-04/2001
Total: \$16,400

24. *In-vitro* microbial model study of demineralization prevention due to buffered hard boiled candy (C01-03).
Role: PI: Fontana M
Sponsor: Warner Lambert Consumer Products (Pfizer)
Dates: 03/2001
Total: \$16,000
25. *In-vitro* evaluation of an antibody preparation for its efficacy in preventing primary caries development using a microbial caries model (Study #2, C00-13).
Role: PI: Fontana M
Sponsor: Galagen and Wyeth Nutritionals
Dates: 03/2001-05/2001
Total: \$24,099
26. *In vitro* evaluation of an antibody preparation for its efficacy in preventing primary caries development using a microbial caries model (Study #2; C00-13).
Role: PI: Fontana M
Sponsor: Galagen and Wyeth Nutritionals
Dates: 03/2001-05/2001
Total: \$24,099
27. *In-vitro* microbial model study of demineralization prevention due to buffered heard boiled candy (C01-07).
Role: PI: Fontana M
Sponsor: Warner Lambert Consumer Products (Pfizer)
Dates: 05/2001-06/2001
Total: \$9,000
28. *In vitro* evaluation of several dentifrices for their efficacy in preventing primary caries development using a microbial artificial-mouth model (C01-05).
Role: PI: Fontana M
Sponsor: Procter and Gamble
Dates: 05/2001-8/2001
Total: \$16,400
29. *In vitro* evaluation of several dentifrices for their efficacy in preventing primary caries development using a microbial artificial-mouth model (C01-06).
Role: PI: Fontana M
Sponsor: Procter and Gamble
Dates: 06/2001-08/2001
Total: \$16,400

30. *In-vitro* microbial model study of demineralization prevention due to buffered hard boilded candy (C01-12).
Role: PI: Fontana M
Sponsor: Warner Lambert Consumer Products (Pfizer)
Dates: 06/2001-08/2001
Total: \$16,000
31. Measurement of detection of acid production adjacent to secondary carious lesions developed around composite restorations (C01-11).
Role: PI: Fontana M
Sponsor: ESPE
Dates: 07/2001-11/2001
Total: \$9000
32. *In-vitro* evaluation of several dentifrices for their efficacy in preventing primary caries development using a microbial artificial-mouth model (C01-08).
Role: PI: Fontana M
Sponsor: Procter and Gamble
Dates: 08/2001-11/2001
\$16,400
33. *In vitro* evaluation of formula components for their efficacy in preventing primary caries development using a microbial caries model (C01-18).
Roles: PI: Fontana M
Sponsor: Wyeth Nutritonals
Dates: 11/2001-12/2001
Total: \$16,000
34. *In vitro* evaluation of formula components for their efficacy in preventing primary caries development using a microbial caries model (C02-01).
Role: PI: Fontana M
Sponsor: Wyeth Nutritonals
Dates: 12/2001-03/2002
Total: \$15,000
35. Evaluation of the efficacy of a fluoride dentifrice using a short-term intra-oral appliance caries model (OHRI#02-I-002).
Role: Co-Investigator: Fontana M
Sponsor: Colgate-Palmolive
Dates: 09/2002
Total: \$5,000
36. Anne E. Dyson Pediatrics Training Initiative
Role: Consultant, Indiana University School of Medicine
Dates: 2002-2007
Total: \$2,342,029.00

[Program Area: An Anne E. Dyson Community Pediatrics Training Initiative multi-year award to develop residency training programs for physicians, which instill an interest in community-based medicine, advocacy, and the capacity to improve the well-being of all children in their communities.]

37. *In vitro* evaluation of several dentifrices for their efficacy in preventing primary caries development using a microbial artificial-mouth model (C03-01).
Role: PI: Fontana M
Sponsor: Procter and Gamble
Dates: 02/2003-03/2003
Total: \$16,500
38. *In vitro* evaluation of several dentifrices for their efficacy in preventing primary caries development using a microbial artificial-mouth model (C03-06).
Role: PI: Fontana M
Sponsor: Procter and Gamble
Dates: 05/2003-06/2003
Total: \$16,500
39. Effects of fluoride exposure on aged resin modified glass ionomers.
Role: PI: Fontana M
Sponsor: Delta Dental Fund
Dates: 2003-2004
Total: \$3,000
40. The cariogenic potential of toddler formulas: protein content and sweeteners.
Role: PI: Fontana M
Sponsor: Deltal Dental Fund
Dates: 2003-2004
Total: \$3,000
41. Effect of xylitol on an infant's acquisition of 40 microbial species
Role: PI: Fontana M
Sponsor: American Academy of Pediatric Dentistry
Dates: 2004-2005
Total: \$99,497
42. Grant Venezuela on Fluoride Intake
Role: Co-investigator: Fontana
Sponsor: CDCH
Dates: 2004
Total: \$50,000
43. Title: Confocal Microcopy analysis of remineralization technology
Role: Co-Investigator with University of Florida (Dr. Ken Anusavice)
Sponsor: Novamin Technologies

- Dates: 2004
Total: \$1,882
44. Effect of xylitol on an infant's acquisition of 40 microbial species.
Role: PI
Sponsor: American Academy of Pediatric Dentistry
Dates: 2004-2006
Total: \$99,497
45. Assessing the cariogenicity of diet and non diet soft drinks in a pediatric population.
Role: PI: M. Fontana, Student: Swati Singh;
Sponsor: Delta Dental Fund
Dates: 2005-2006
Total: \$3,000
46. Title: Confocal Assessment of Demineralized Teeth Contract University of Florida
Role: Collaborator, (PI: Dr. Ken Anusavice, University of Florida)
Sponsor: University of Florida
Date: 2005
Total: \$1,813
47. Study of new antimicrobial agent
Role: PI: M Fontana
Sponsor: Church & Dwight
Dates: 2005
Total: \$6,000
48. The effect of the whitening agents on caries susceptibility of human enamel using a microbial caries model.
Role: PI: Fontana M
Sponsor: Ultradent
Dates: 2006
Total: \$18,000
49. Risk assessment validation using new caries detection methods.
Role: Co-investigator: Fontana M
Sponsor: Delta Dental Fund
Dates: 2006-2007
Total: \$29,955.57
50. Xylitol: effects on the acquisition of cariogenic species and caries development in toddlers.
Role: PI: Fontana M
Sponsor: Delta Dental Fund
Dates: 2007-2008
Total: \$30,000

51. *In vitro* evaluation of a new dentifrice for its efficacy in preventing primary caries development using a microbial artificial-mouth model.
Role: PI: Fontana, M
Sponsor: Procter and Gamble
Dates: 2007
Total: \$12,000
52. The antimicrobial effect of a resin-based orthodontic adhesive.
Role: PI: Fontana, M
Sponsor: Harry J. Bosworth Company
Dates: 2007
Total: \$1,500
53. Risk assessment validation using new caries detection methods.
Role: Co-investigator: Fontana M
Sponsor: Delta Dental Fund
Dates: 2006-2007
Total: \$29,955.57
54. *In-vitro* evaluation of a new dentifrice for its efficacy in preventing primary caries development using a microbial artificial-mouth model.
Role: PI: Fontana, M
Sponsor: GSK
Dates: 2008
Total: \$16,000
55. Risk assessment validation using new caries detection methods.
Role: Co-investigator: Fontana [10% effort]
Sponsor: Delta Dental Fund
Dates: 2006-2009
Total: \$30,000
56. Effect of an antimicrobial sealant.
Role: PI
Sponsor: Cooley and Cooley
Dates: 2008-2009
Total: \$2,000
57. Erin Coleman/Student Fellowship.
Role: PI: Fontana
Sponsor: Cooley and Cooley
Dates: 2008-2009
Total: \$2,000
58. Health Hirsch/Student Fellowship.

- Role: PI: Fontana
Sponsor: Cooley and Cooley
Dates; 2008-2009
Total: \$500
59. CTSI Fellow.
Role: PI: Fontana; Student: Wallace McCarlie
Sponsor: NIH-CTSI
Dates: 2008-2009
Total: \$31,292
60. Xylitol pacificer study.
Role: Co-investigator: Fontana; PI: Eva Soderling (Finland)
Sponsor: University of Turku
Dates: 2008-2009
Total: \$18,000
61. In vitro evaluation of a new dentifrice for its efficacy in preventing primary caries development using a microbial artificial-mouth model
Role PI: Fontana
Sponsor: Glaxo Smith Kline
Date: 2008
Total: \$16,000
62. In vitro microbial model study of new antimicrobial toothpaste
Sponsor: Procter and Gamble
Role PI: Fontana
Date: 2009
Total: \$12,000
63. Xylitol Pacificer Study
Role Co-I: Fontana
Sponsor: University of Turku
Date: 2009
Totals: \$6,650 + 6,449.25
64. CTSI Fellow.
Role: PI: Fontana; Student: Wallace McCarlie
Sponsor: NIH-CTSI
Dates: 2009-2010
Total: \$30,000
65. Effectiveness of sealing caries: Monitoring Early Caries Lesions
Role: Co-PI (With J. Platt) [10% effort]
Sponsor:Delta Dental
Dates: 2010

Total Direct: \$20,000

66. A study on Novamin
Role PI: Fontana
Sponsor: Dentsply
Date: 2010
Total Direct: \$41,460

67. Variation in Risk Assessment Knowledge
Role PI: Fontana
Sponsor: Wilmore Dental
Date: 2010
Total Direct: \$6,764.39

68. Effectiveness of sealing caries: monitoring sealed early lesions
Role PI: Fontana
Sponsor: Seed grant MICHR
Date: 2010
Total Direct: \$5,000

Active:

1. Development of a website and virtual clinic for caries management
Role PI: Fontana
Sponsor: CRLT
Dates: 2010-2012
Total Direct: \$6,000

2. Evaluation of plaque microflora after exposure to xylitol.
Role Co-I: Fontana (PI University of Michigan subcontract)
Sponsor: Univ. of Finland-Kuwait
Dates: 2010-2012
Total Direct: \$26, 710

3. Oral Health Baseline Needs Assessment of 0-5 year old children in Michigan
Role: Co-I (PI Dental School subcontract)
Sponsor: Early Childhood Investment Corporation
Date: 2011-2012
Total Direct: ~\$35,000

3. Collection of saliva and plaque samples for caries risk U01 study
Role: PI
Sponsor: Colgate
Date: 2012-2013
Total: \$30,000

Submitted and Pending:

1. Improving Retention and Monitoring of Dental Sealants” Optical Coherence Tomography (OCT)
Role: Fontana-Consultant
Sponsor: IADR Colgate Award
Dates: 2012
2. Active Learning and Behavior Change –Pediatric Dental Patients’ Responses to Oral Health Education during Dental Visits (Submitted at the request of Delta Dental)
Role: Fontana-Multiple PI
Sponsor: Delta Dental
Total: \$100,000
Dates: 2012-2013

University Grants and Contracts:

Past:

1. "CONICIT" (Caracas, Venezuela) Scholarship for graduate studies. [Awarded also Fundayacucho Fellowship, CDCH Fellowship (UCV), and Kellogg’s Foundation Scholarship, but declined in favor of CONICIT’s Scholarship]
Role: Awardee
Dates: 08/1992-07/1996
Total: \$150,000
2. Indiana University Research Fellowship
Role: Awardee
Sponsor: School of Dentistry
Dates: 08/1994-07/1996
Total: \$30,000
3. Indiana University Grant-in-Aid of Research Award.
Role: Awardee
Sponsor: Graduate Office
Dates: 11/1994
Total: \$600
4. Travel Grant.
Role: Traveler
Sponsor: Indiana University Graduate Office
Dates: 02/1995
Amount: \$800
5. Indiana University Grant-in-Aid of Research Award.
Role: PI
Sponsor: Graduate Office
Dates: 01/1996
Total: \$600

6. Travel Grant.
Role: Traveler
Sponsor: Indiana University Graduate Office
Dates: 05/1996
Total: \$713
7. Cloning of *Streptococcus mutans* fimbrial-associated genes.
Role: Co-investigator (Dr. Gregory-principal investigator)
Sponsor: IUSD
Dates: 1997
Total: \$2282
8. Microbial model development
Role: PI
Sponsor: IUSD
Date: 1997
Total: \$880
9. An in vitro evaluation of chlorhexidine releasing restorative Grant materials for their efficacy in preventing secondary caries.
Roles: Co-investigator: M. Fontana; PI: Sanders, B
Sponsor: Indiana University
Dates: July-September 1998
Total: \$1,400
10. *In vitro* microbial caries model-biofilm modifications.
Role: PI: Fontana M
Sponsor: IUPUI New Faculty Development Grant
Dates: 01/2002-12/2002
Total: \$10,150
11. Fluoride dentifrice effects on a multispecies caries biofilm model
Role: PI: Fontana M
Sponsor: IUSD Office of Research
Dates: 2003
Total: \$3,000
12. Faculty Development Grant [To aid in recruitment of Xylitol grant]
Role: PI
Sponsor: IUSD
Date: 2005
Total: \$3,000
13. Post doctoral position grant. [Hired: Dr. Milagros Toro]
Role: Mentor
Sponsor: IUSD

- Dates: 2005-2007
Total: \$158,140
14. Post doctoral position. (Hired: Dr. Diana Catt)
Role: Mentor
Sponsor: IUSD
Dates: 2006-2008
Total: \$158,140
 15. Acceptability of ECC preventive options in non-dental settings.
Role: PI: Fontana M; Co-PI: Gregory Zimet (Psychology)
Sponsor: IUSD
Dates: 2007-2008
Total: \$3,000
 16. Development of an on-line course to enhance student learning.
Role: PI: Fontana, M
Sponsor: Office of Professional Development Indiana University
Dates: 2007
Total: \$7,000
 17. Testing of an on-line course for training part-time clinical faculty.
Role: PI: Fontana, M. and Soto Nelson
Sponsor: Office of Professional Development Indiana University
Dates: 2007
Total: \$5,000
 18. Role of plaque microfloral as a dental caries predictor.
Role: PI: Fontana M
Sponsor: IUSD Office of Research
Dates: 2007
Total: \$3,000
 19. Development of an on-line course to enhance student learning.
Role: PI: Fontana, M
Sponsor: Office of Professional Development Indiana University
Dates: 2007-2008
Total: \$10,000
 20. Acceptability of ECC preventive options in non-dental settings
Role: PI: Fontana, M; Co-PI: Ziment, Gregory (Psychology)
Sponsor: IUSD
Dates: 2007-2008
Total: \$3,000
 21. Role of plaque microflora as a dental caries predictor.

- Role: PI: Fontana, M
Sponsor: IUSD Office of Research
Dates: 2007-2008
Total: \$3,000
22. Graduate Student Organization Award (Fontana / Stump)
Role: Traveler
Sponsor: IUPUI
Dates: 07/01/08-06/30/09
Total: \$500
23. Graduate Student Organization (Fontana / Hirsch)
Role: Traveler
Sponsor: IUPUI
Dates: 2008-2009
Total: \$500
24. Graduate Travel Grant (Fontana / Hirsch)
Role: Traveler
Sponsor: IUPUI
Dates: 2008-2009
Total: \$800
25. Variations in restorative treatment decisions amongst dental school faculty
Role Mentor: Fontana; Student: Lauren Vainio
Sponsor: Student Research Grant (Univ. of Michigan School of Dentistry)
Dates: 2010-2011
Total: Fellowship + \$300
26. Role of Magnification in Caries Detection
Role Mentor: Fontana; Student: Jami Ballantine
Sponsor: Research Pathways Program, UoM School of Dentistry
27. Developing patients for a virtual clinic
Role Mentor; Student: Demat Fazit
Sponsor: Clinical Pathways Program, UoM School of Dentistry
28. Use of metabolomics in caries prediction
Role Mentor: Fontana; Student: Sarah Baxter
Sponsor: Research Pathways Program, UoM School of Dentistry
Will submit a MICHR grant to pay for part of the pilot costs.
29. Evaluation of probiotics and caries in a microbial caries model
Role Mentor: Fontana; Student: Seth Dawson
Sponsor: Research Pathways Program, UoM School of Dentistry

30. Evaluation of ATP Carfiscreeen for caries activity assessment
Role: Mentor: margherita Fontana; Student: Jessica Schuwarz
Sponsor: Research Pathways Program, UoM School of Dentistry

PUBLICATIONS:

Books, Book Chapters, Published Proceedings:

1. Twetman S, **Fontana M**. Patient caries risk assessment. Monogr Oral Sci. 21:91-101. Epub 2009 Jun 3.
2. Longbottom C, Huysmans M-Ch, Pitts N, **Fontana M**. Glossary of Key Terms. Monogr Oral Sci. 21:209-216.
3. Twetman S, **Fontana M**, Zero D and Tellez-Merchan M. Initial patient caries risk assessment. Clinical Management of Dental Caries; How to plan and deliver rational, evidence-based caries care: *the International Caries Classification and Management System (ICCMSTM)* (Under preparation-due May 2012)

Publications: Refereed

1. **Fontana M**, Hernandez S, Fermin Z, Paez M, Bustamante P, Bueno T, Harb L, Campos A. La efectividad del fluor aplicado en forma de enjuagues (English translation: Effectivity of fluorides applied as mouthrinses). *Venezuela Odontologica* 1990;55:14-16.
2. Bastidas R, Gonzalez Cabezas C, **Fontana M**, Rivera H. Esclerosis sistémica progresiva. Consideraciones clínicas, radiográficas y terapéuticas: Enfoque multidisciplinario (English translation: Multiple systemic sclerosis. Clinical, radiographic and therapeutic considerations: A multidisciplinary approach). *Practica Odontologica Mexicana* 1992;13:13-16.
3. Gonzalez Cabezas C, **Fontana M**. Estudio epidemiológico de nutrición y caries en una población preescolar de un barrio marginal de Caracas (English translation: Epidemiological study on malnutrition and caries relationship in a poor area of Caracas). *Acta Odont Venez* 1992;30:29-33.
4. **Fontana M**. Vitamin C (Ascorbic Acid): Clinical Implications for Oral Health. A review of the literature. *Compend Cont Educ Dent* 1993;7:916-929.
5. Gonzalez-Cabezas C, **Fontana M**. Uso de fluoruro tópico en las cavidades como medida preventiva de caries secundaria (English translation: Uses of topical fluorides applied to cavities as a preventive measure for secondary caries). *Acta Odont Venez* 1993;31:55-58.
6. **Fontana M**. Secondary caries: Relation with current criteria used to replace restorations. *General Dentistry* 1995;43:143-154.
7. **Fontana M**, Gonzalez Cabezas C. Topical application of stannous fluoride inside of cavity preparations: a review of the literature. *Indiana Dental Association Journal* 1995;Fall:22-24.
8. **Fontana M**, Gfell LE, Gregory RL. Characterization of preparations enriched for Streptococcus mutans fimbriae: salivary IgA antibodies in caries-free and caries-active subjects. *Clin Diagn Lab Immunol* 1995;2(6):719-725.
9. **Fontana M**, Dunipace AJ, Gregory RL, Noblitt TW, Li Y, Park KK, Stookey GK. An in-vitro microbial model for studying secondary caries formation. *Caries Res* 1996;30:112-118.
10. **Fontana M**, Li Y, Dunipace AJ, Noblitt TW, Fischer GM, Katz BP, Stookey GG. Measurement of demineralization of enamel using microradiography and confocal microscopy. A correlational study. *Caries Res* 1996;30:317-325.

11. Perrone M, Gfell LE, **Fontana M**, Gregory RL. Antigenic characterization of fimbriae preparations from *Streptococcus mutans* isolates from caries free and caries susceptible subjects. *Clin Diagn Lab Immunol* 1997;4:291-296.
12. Gonzalez-Cabezas C, **Fontana M**, Dunipace AJ, Li Y, Fischer G, Proskin Hm, Stookey GK. Measurement of enamel remineralization using microradiography and confocal microscopy. A correlational study. *Caries Res* 1998;32:385-392.
13. **Fontana M**, Dunipace AJ, Stookey GK, Gregory RL. Intranasal immunization against dental caries with a *Streptococcus mutans*-enriched fimbrial preparation. *Clin Diagn Lab Immunol* 1999;6:405-409.
14. **Fontana M**, Gonzalez-Cabezas C, Wilson M, Appert C. In vitro evaluation of a “smart” dental material for its efficacy in preventing secondary caries using a microbial artificial mouth model. *Am J Dent* 1999;12:S8-S9.
15. **Fontana M**, Yanikoglu FC, Ozturk F, Ando M, Hayran O, González-Cabezas C, Haider A, Baldrige LA, Stookey GK. Comparison of QLF, ultrasound and confocal microscopy in the measurement of demineralization/remineralization of enamel lesions developed on natural smooth surfaces. In: *Early Detection of Dental Caries II*, Indiana University 1999; p. 301-316. [proceedings]
16. González-Cabezas C, **Fontana M**, Gomes-Moosbauer D, Ando M, Analoui M, Stookey GK. Comparative studies of several methods for the early detection of secondary caries. In: *Early Detection of Dental Caries II*, Indiana University 1999; 317-342. [proceedings]
17. Gonzalez-Cabezas C, **Fontana M**, Stookey GK. Measurement of mineral gain and loss on dental enamel and dentin using confocal microscopy. *Methods of Enzymology* 1999;307:485-496.
18. **Fontana M**, Gonzalez-Cabezas C, Stookey G. QLF monitoring of therapies for early secondary caries arrestment and remineralization. *Proceedings of the Society for Photo-Optical Instrumentation Engineers: Progress in Biomedical Optics, Lasers in Dentistry VI*, 2000;1(4):261-268. [proceeding]
19. **Fontana M**, Gonzalez-Cabezas C. Secondary caries and restoration replacement. An unresolved problem in dentistry. *Compendium* 2000; 21:15-30.
20. **Fontana M**, Dunipace AJ, Stookey GK, Gregory RL. An in vitro microbial-caries model used to study the efficacy of antibodies to *Streptococcus mutans* surface proteins in preventing dental caries. *Clin Diagn Lab Immunol* 2000;7:49-54.
21. Zero D, **Fontana M**, Lennon AM. Clinical applications and outcomes of using indicators of risk in caries management. *J Dent Ed* 2001;65(10):1132-1138.
22. Zero D, Gonzalez-Cabezas C, **Fontana M**. Oral factors to consider that influence restorative treatment. Proceedings of the 5th IUSD Annual Indiana Conference: *The changing practice of restorative dentistry*, Indiana University, 2002; 87-103.
23. **Fontana M**, Gonzalez-Cabezas C, Wilson ME, Stookey GK. Inhibition of secondary caries lesion progression using fluoride varnish. *Caries Res* 2002;36:129-135.
24. Hazzelrigg CO, Dean JA, **Fontana M**. Fluoride varnish concentration gradient effects measured by quantitative light fluorescence. *Pediatric Dentistry* 2003;25(2):119-26.
25. González-Cabezas C, **Fontana M**, Gomes-Moosbauer D, Stookey GK. Early detection of secondary caries using quantitative, light-induced fluorescence. *Oper Dent* 2003;28(4):415-22.
26. González-Cabezas C, **Fontana M**. Current research using new technologies for the detection and monitoring of secondary caries. Indiana Conference for Early Caries

- Detection III. In: *Early Detection of Dental Caries II*. Editor: Stookey GK, 2003:347-62.
27. Eggertsson H, Ferreira-Zandoná AG, Ando M, González-Cabezas C, **Fontana M**, Martínez-Mier EA, Waskow-Chin JR, Jackson RD, Eckert GJ, Stookey GK, Zero D. Reproducibility of in vitro and clinical examinations with QLF (Quantitative Light-induced Fluorescence). Developing guidelines for imaging and analyzing QLF- images, and a process for training examiners. In: *Early Detection of Dental Caries II*. Editor: Stookey GK. 2003:213-28.
 28. Sa Lt, Gonzalez-Cabezas C, Cochran MA, **Fontana M**, Matis BA, Moore BK. Fluoride releasing materials: their anticariogenic properties tested in in vitro caries models. *Oper Dent* 2004;29(5):524-531.
 29. **Fontana M**, Zunt S, Eckert GE, Zero D. A screening test for unstimulated salivary flow measurement. *Oper Dent* 2005;30(1):3-8.
 30. **Fontana M**, Haider A, Gonzalez-Cabezas C. Caries lesion development and biofilm composition responses to varying demineralization times and sucrose exposures. *Biofilms* 2005;1:229-237.
 31. Jackson R, **Fontana M**. The importance of caries risk assessment, detection and diagnosis prior to dental sealant placement. *Dimensions of Dental Hygiene* 2005;3(2):16-21.
 32. Toro M, Zunt S, **Fontana M**. Dental erosion: a multi-factorial condition. *J Indiana Dent Assoc* 2006;85(2):4-11.
 33. Jackson R, **Fontana M**. The importance of caries risk assessment, detection and diagnosis prior to dental sealant placement. Part II. *Dimensions of Dental Hygiene* 2006;4(7):28-31.
 34. **Fontana M**, Zero D. Assessing patients' Caries Risk. *J Am Dent Assoc* 2006;137(9):1231-1240.
 35. Catt D, **Fontana M**. Is it plaque or is it biofilm? *The Journal of Practical Hygiene* 2006;15 (8):13-15.
 36. **Fontana M**, Zero D. Bridging the gap in caries management between research and practice through education: the Indiana University experience. *J Dent Ed* 2007;71(5):579-591.
 37. Catt DM, **Fontana M**. Xylitol – a dual role in caries prevention. *Dimensions of Dental Hygiene* 2007;3:24-26.
 38. Young D, Featherstone J, Roth JR, Anderson M, Autio-Gold J, Christensen GJ, **Fontana M**, Kutsch VK, Peters MC, Simonsen RJ, Wolff MS. Consensus statement caries management by risk assessment: implementation guidelines to support oral health. *J Calif Dent Assoc* 2007;35(11):799-805.
 39. Totiam P, González-Cabezas C, **Fontana M**, Zero D. A new in vitro model to study the relationship of gap size and secondary caries. *Caries Res* 2007;41:467-473.
 40. Thneibat A, **Fontana M**, Cochran MA, Gonzalez-Cabezas C, Moore BK, Matis BA, Lund MR. Anticariogenic and antibacterial properties of a copper varnish using an in vitro microbial caries model. *Oper Dent* 2008;33-2;142-148.
 41. Griffin SO, Oong E, Kohn W, Vidakovic B, Gooch BF, Bader J, Clarkson J, **Fontana MR**, Meyer D, Rozier RG, Weintraub JA, Zero DT. The effectiveness of sealants in managing carious lesions. *J Dent Res* 2008;87(2):169-174.

42. **Fontana M**, Catt D, Sissons C, Eckert GJ, Ofner S, Toro M, Gregory RL, Ferreira Zandona A, Eggertsson H, Jackson R, Chin J, Zero D. Xylitol: effects on the acquisition of cariogenic species in infants. *Pediatric Dent* 2009;31(3):257-266.
43. **Fontana M**, Young D, Wolff M. Evidence Based Caries Risk Assessment and Management. *Dental Clinics of North America* 2009;53: 149–161.
44. Zero DT, **Fontana M**, Martínez-Mier EA, Ferreira-Zandoná A, Ando M, González-Cabezas C, Bayne S. The biology, prevention, diagnosis and treatment of dental caries. *JADA* 2009;140(9):25S-35S.
45. Gooch BF, Griffin SO, Gray SK, Kohn WG, Rozier RG, Siegal M, **Fontana M**, Brunson D, Carter N, Curtis DK, Donly KJ, Haering H, Hill LF, Hinson HP, Kumar J, Lampiris L, Mallatt M, Meyer DM, Miller WR, Sanzi-Schaedel SM, Simonson R, Truman BI, Zero DT. Preventing dental caries through school-based sealant programs: Updated recommendations and reviews of evidence. *J Am Dent Assn* 2009;140(11):1356–1365.
46. Longbottom C, Huysmans M-Ch, Pitts N, **Fontana M**. Glossary of Key Terms. *Mongr Oral Sci* 2009; 21:209-216.
47. **Fontana M**, Zero D, Beltran-Aguilar E, Grey Sk. Techniques for tooth surface assessments in school-based sealant programs. *JADA* 2010; 141(7):854-860
48. **Fontana M**, Young D, Wolff M, Pitts N, Longbottom C. Defining Dental Caries for 2010 and beyond. *Dent Clin N Am* 2010;54: 423–440.
49. Eckert Ge, Jackson R, **Fontana M** (2010). Variation of Caries Risk Factors in Toddlers and Caregivers. *International Journal of Dentistry* (pii: 593487. Epub 2010 Sep 23).
50. Ferreira-Zandona A, Santiago E, Eckert G, **Fontana M**, Ando M, Zero D. Use Of ICDAS Combined With Quantitative Light-Induced Fluorescence As A Caries Detection Method. *Caries Res* 2010;44(3):317-322
51. **Fontana M**, Jackson R, Eckert G, Swigonski N, Chin J, Ferreira Zandona A, Ando M, Stookey GK, Downs S, Zero D. Longitudinal Assessment of Caries Risk Factors in Toddlers. *J Dent Res* 2011; 90(2):209-214.
52. Söderling E, Hirvonen A, Karjalainen S, **Fontana M**, Catt D, Seppä L. The Effect of Xylitol on the Composition of the Oral Flora: A Pilot Study. *European Journal of Dentistry* 2011; 5(1):24-31.
53. **Fontana M**, Young D, Wolff M, Pitts N, Longbottom C. Definiendo la caries dental para 2010 y en adelante. *Gaceta Dental* 2011; 226:104-129.
53. **Fontana M**, Santiago E, Eckert GJ, Ferreira Zandona AG. Risk Factors of Caries Progression in a Hispanic School-Age Population. *J Dent Res* 2011; 90:1189-1196
54. **Fontana M**, Gonzalez-Cabezas C. Evaluation du risque carieux chez l'adulte. *Réalités Cliniques*. 2011 ;22;3 : 213-19.
To be republished in English in the British Dental Journal (2012)
55. **Fontana M**, Wolff M. Opportunities and Challenges for Caries Management. *J Calif Dent Associ* 2011; 39(10):702-708
56. Young D, Ricks CS, Featherstone JDB, **Fontana M**, Fournier SM, Geiermann SP, Hurlbutt M, Kutsch VK, Loftus R, Luther JR, Nový BB, Wolff MS and Wong A. Creating a Roadmap. *Changing the Face and Practice of Dentistry: a 10-Year Plan*. *J Calif Dent Associ* 2011;39(10):746-751.
57. **Fontana M**, Gonzalez-Cabezas C. Changing paradigm. A different view of caries lesions. *Compendium* 2011;32(Special Issue 4):24-27. Accessed at: <http://www.dentalaegis.com/special-issues/Tech/2011/12/changing-paradigm>

Publications: Non-Refereed

1. **Fontana M**, Gregory RL. Streptococcus mutans fimbriae: Relationship to human dental caries. *Indiana Branch of the American Society for Microbiology Newsletter* 1994;Aug:3-4.
2. Gregory RL, Warner NA, Gfell LE, **Fontana M**. Visualization and characterization of Streptococcus mutans fimbriae by negative and immunogold bead staining in the TEM. *Microscopy Research and Technique* 1994;27:352.
3. Selders RJ, **Fontana M**, Wilson ME, Gregory RL. Role of fimbriation in root caries: An in vitro study. *Indiana Branch of the American Society for Microbiology Newsletter* 1999, MM:6-8
4. **Fontana M**. Transitioning from education and research to improve patient care. *J Dent Ed* 2007;71(5):571. [Foreword to Proceedings from the AADR/ADEA Joint Symposium on Caries Management]
5. Young DA, **Fontana M**, Wolff MS. Current concepts in cariology. Preface. *Dent Clin North Am*. 2010 Jul;54(3):xiii-xv.
6. Martinocorena JC. Gonzalez-Cabezas C, **Fontana M**. Jornada sobre la caries dental. *RCOE* 2011, Vol. 16, N°. 3

Manuscripts: Submitted or In Press

1. Swigonski N, Zimet G, Eckert G, **Fontana M** (2009). Acceptability of Early Childhood Caries Preventive Options in Non-Dental Settings. *Pediatrics* 2011 (submitted).
2. Ribeiro TR, **Fontana M**, Eckert GJ, Zero DT, Ando M. Surface and Subsurface Optical Characterization of Enamel Lesions Developed by In vitro Biofilms. *Caries Research* 2011 (submitted).
3. Ando M, Platt JA, Soto-Rojas AE, Eckert GJ, Zero DT, **Fontana MR**. Comparison of Two Thresholds for Fluorescence Image Analysis on Occlusal Caries Quantification under Clear Sealants. *Caries Research* 2011 (submitted)
4. Platt JA, **Fontana M**, Kurshuk A, Hara A, Ando M, Eckert G. Time-dependent Changes in a Clear Sealant and their Effects on QLF. *Operative Dentistry* 2011 (submitted)
5. **Fontana M**, Gooch B, Junger M. Hall Technique may be an effective treatment modality for caries in primary molars. *Journal of Evidence Based Dentistry Practice* 2012 (In press)
6. **Fontana M**, Gonzalez-Cabezas C. Evaluation of caries risk in adults. *British Dental Journal* 2012 (In press)
7. **Fontana M**, Gonzalez-Cabezas C. Are we ready for definitive guidelines for xylitol Use? *Adv Den Res* 2012 (In press).
8. González-Cabezas C, Jiang H, **Fontana M**. Effect of pH on the rehardening efficacy of high concentration fluoride treatments on non-cavitated lesions. *J of Dentistry* 2012 (In press)
9. Twetman S, **Fontana M**, Featherstone J. Risk assessment – can we reach consensus? *J Dent Res* 2012 (submitted)
10. Young DA, Nový BB, Hurlbutt M, Horlak D, **FontanaM**, Wolff M, JBD Featherstone . Implementing Caries Management by Risk Assessment (CAMBRA) in Practice. *CDA* 2012 (in preparation)

Published Abstracts: Local Proceedings

1. **Fontana M**, Zandona F, Eggertsson H, Jackson R, Zero D. (2002). Caries Management Competency for Dental Students- Indiana University Model. Assessment Institute. Indiana University.
2. Bahleda L, **Fontana M**. Evaluating the use of caries risk assessment procedures by Indianapolis area dentists. 11th Annual Research Day, Indiana University School of Dentistry (IUSD), *Proceedings* 2003;11:25, Abstract P8.
3. Bahleda L, **Fontana M**. Evaluating the use of caries risk assessment procedures by indianapolis area dentists-initial data for evaluation of cariology program at IUSD. Assessment Institute, Indianapolis 2003.
4. **Fontana M**, Ferreira Zandona A, Eggertsson H, Willis G, Dixon , Guba Cochran C, Zero D (2003). Cariology Education Program for Dental Students- Indiana University Model. *J Dent Ed* 2003;67(2):42, Abstract 132.
5. **Fontana M**. Bridging the gap between research and practice through education: the Indiana University experience. ADEA/AADR 2006 meeting. [JOINT] Caries Management: Transitioning from Education and Research to Improve Patient Care. *J Dent Res* 2006;85, Sequence 178.
6. Joseph K, Moody N, **Fontana M** . Catching cavities: you, your baby and xylitol. IUSD Research Day, *Proceedings* 2007; Abstract;T4 (page 12).
7. **Fontana M**, Waller-Smith J, Doméjean-Orliaguet S, Espelid I, Anne B. Tveit AB. Restorative Treatment-Strategies Reported by US Dental School Faculty. ADEA meeting, poster 6. *J Dent Educ* 2009; 73(2): 232-265.
8. Gonzalez-Cabezas C, **Fontana M**. Microbial models in secondary caries research-what are we modeling? IADR meeting 2009 (Abstract #5).
9. Babler W, **Fontana M**, Meadow M Platt J. In Pursuit of Enhanced Vertical Integration. ADEA 2010; Washington DC (poster 321).
10. Vainio L, **Fontana M**, Eckert G, Doméjean-Orliaguet S, Espelid I, Tveit A. Variability in Restorative Treatment-Decisions of Dental School Faculty. University of Michigan Research Day 2011 (Poster 40)

Published Abstracts: Presented as Oral Presentations:

1. **Fontana M**, Gonzalez C, Saavedra J. Efecto de enjuagues de fluoruro de sodio al 0.2% en niños preescolares. (English translation: Effect of 0.2% NaF mouthrinses in kindergarten children). *Acta Odont Venez* 1992;30(Spec Iss):26.
2. Rivera H, **Fontana M**, Gonzalez-Cabezas C, Tinoco PJ. Estudio epidemiológico y análisis histopatológico de tumores malignos de glándulas salivales menores (English translation: Epidemiological study and histopathological analysis of malignant minor salivary gland tumors). *Acta Odont Venez* 1992;30(Spec Iss):14.
3. Gonzalez Cabezas C, **Fontana M**, Aznar MA. Estudio epidemiologico de desnutricion y prevalencia de caries en ninos preescolares (English translation: Malnutrition epidemiological study and caries prevalence study in kindergarten children). *Acta Odont Venez* 1992;30(Spec Iss):24.
4. **Fontana M**, Dunipace AJ, Gregory RL, Noblitt T, Li Y, Stookey GK. Usos en odontologia de un modelo microbiologico in-vitro para desarrollar y prevenir la caries dental (English translation: Uses in dentistry of an in-vitro microbiological model for caries development and prevention). *J Dent Res* 1996;75:1321, Abstract 30. [First

- Meeting of the Venezuelan Branch of the International Association for Dental Research, 1995, p.19]
5. **Fontana M**, Dunipace AJ, Stookey GK, Gregory RL. Streptococcus mutans surface proteins-CTB intranasal immunization against dental caries. *J Dent Res* 1997;76:374, Abstract 2887. [IADR Annual Meeting, Orlando, FL.]
 6. **Fontana M**, Wilson ME, Gonzalez-Cabezas C, Stookey GK. Caries inhibition evaluation using an in vitro microbial model. *J Dent Res* 1998;77:782, Abstract 1208. [IADR Annual Meeting, Nice, FRANCE]
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