
MICHAEL S. REDDY, DMD, DMSc

Dean
UAB School of Dentistry
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Curriculum Vitae

M S R

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M S R

CURRICULUM VITAE

PERSONAL INFORMATION

Name: Michael S. Reddy
Place of Birth: East Hartford, Connecticut
Married to: Alyssa T. Reddy
Children: Alexander, Rachael, Brooks

Home Address: 132 Memory Court
Birmingham, AL 35213-2917
(205) 868-9104

Office Address: UAB School of Dentistry
Office of the Dean
1919 7th Avenue South, SDB 406
Birmingham, AL 35294-0007
(205) 934-4720

EDUCATION

1977-1981 Bachelor of Science University of Hartford
summa cum laude

1981-1986 Doctorate of Dental Medicine Harvard School of Dental Medicine
magna cum laude in a special field

1985-1989 Certificate in Periodontology Harvard School of Dental Medicine
Clinical Training

1985-1989 Doctorate of Medical Science Harvard University

LICENSURE AND CERTIFICATION

1985 Massachusetts License #16137
1989 Alabama License #4318
1991 American Academy of Periodontology Board Eligible
1993 American Academy of Periodontology Board Certified

POSTDOCTORAL TRAINING

1985-1989 Research Fellow in Periodontology,
Harvard School of Dental Medicine

1985-1987 Periodontal Resident, Children's Hospital
Medical Center, Boston, Massachusetts

1988-1989 Research Fellow, Division of Radiology
Brigham and Woman's Hospital, Boston, Massachusetts

EXECUTIVE/ADMINISTRATIVE

1. Administrative Appointments

2012-	Dean, UAB School of Dentistry
2011-2012	Interim Dean, UAB School of Dentistry
2004-2011	Chairman, Department of Periodontology, UAB School of Dentistry
2003-2004	Interim Chair, Department of Periodontology, UAB School of Dentistry
1998-2004	Assistant Dean for Planning and Clinical Activity, UAB School of Dentistry
1996-2003	Director, Advanced Education Programs in Periodontics, UAB School of Dentistry

2. Leadership Philosophy

I believe the first and foremost responsibility of an academic leader and administrator is to create and promote a shared vision among the team; one that is consistent with the mission of the larger organization and aligned with the university system. Universities serve a wide variety of constituencies including students, parents, alumni, faculty, staff, administration, taxpayers, legislators, funders, and others. The leadership team must be willing and able to work collaboratively and with one vision, both within the university and beyond. Those in leadership must embrace every opportunity to advocate for the university's goals, principles, and practices. In order to succeed within such a context, a leader must be a lively mix of facilitator, cheerleader, public relations specialist, and coach to engage stakeholders and help everyone reach their goals.

I believe an academic leader should look constantly to the future for opportunities to "push the envelope" and innovate for the sake of developing strong, vital programs. In doing so, a leader should stay abreast of the latest developments in the field, keep a watchful eye on the unit as a whole, and look for opportunities to move forward.

I believe an academic leader must always remain a role model, a teacher, a scholar, and a researcher who seeks the opportunity to mentor the next generation. A scholarly approach to academic administration is the foundation upon which solid programs are built and maintained; and playing an active role in the profession gives the institution a face, a voice, and an ever-widening circle of influence. Posing questions, designing methodologies, writing research protocols, interpreting data, and reporting findings should be a standard administrative practice. Ongoing assessment provides more than reassurance; it also provides exigency and allows for intentionality in relation to growth and development. Ultimately, an academic administration should constantly be looking to develop future leaders who have outstanding communication, education, research, and engagement skills to ensure the future of the university.

3. Leadership Accomplishments

Upon becoming Dean of the UAB School of Dentistry, I worked with my core leadership team to create vision, mission, and values statements and develop a five-year strategic plan. Centered on our vision of *leading oral healthcare*, we have accomplished the following outcomes:

- We restructured administrative and academic departments to align functions and strengths.
- We vaulted from 15th place to a first place ranking among US dental schools in National Institutes of Health (NIH) funding. This was accomplished by directing focus to several major research themes and building critical mass in those areas.
- We enhanced the student experience and alumni engagement through comprehensive communications strategy and programs. This has resulted in an increased alumni association membership, 40% of alumni making a gift to the capital campaign, and our surpassing capital campaign goals.
- We achieved significant growth in clinical revenue, including a 17% increase in fiscal year 2016 alone, and improved the patient satisfaction score from 65% to 98%.
- Our students attained outstanding academic performance, as demonstrated by a first-time pass rate of 97% and an average score of 1.8 standard deviations above the national average on the National Board of Dental Examiners exam.
- We accomplished a 90% satisfaction rating on the faculty's evaluation of administrative effectiveness in the areas of communicating to appropriate constituencies, having a visionary plan, and contributing positively to the institution's image.

4. Service

A. UAB School of Dentistry Committees

1989-1990	Curriculum Committee
1990-1994	Research Committee
1991-1994	Recall Committee
1991-1995	Honors Committee
1991-2000	Intramural Professional Practice Committee
1994-1996	Faculty Status Committee
1995-1998	Academic Council
1996-2000	Comprehensive Care Committee
1996-2003	Clinical Affairs Committee
1996-2000	Committee for Equipment Evaluation and Selection
1996-2000	Committee on Postgraduate Education
1996-1997	Omicron Kappa Upsilon, President
1996-2002	Ad hoc Steering Committee
1997-1998	Faculty Financial Allocation Committee
1998-	Executive Council
1998-2004	Dean's Council
1998-2000	Strategic Planning Committee, Chair

1998-1999	Academic Development Committee
1999-2003	Postgraduate Education Committee
1999	Search Committee for Chair of Diagnostic Sciences, Chair
2000-2001	Accreditation Steering Committee
2000	Faculty Practice Facility Task Force
2000-2002	Space Planning Committee
2002-2004	Clinical Patient Management Software Committee
2003-2004	HIPAA Implementation Committee
2004-2005	Alabama Dental Association Council on Dental Education and Licensure
2006-2009	Intramural Professional Practice Committee
2008-	Dental Academic Training Research (DART) Program, Co-Director
2008-2009	Promotion and Tenure Committee
2009-2011	Promotion and Tenure Committee, Chair
2010-2011	Implant Task Force, Chair
2014-	Strategic Planning and Assessment Committee, Chair

B. UAB University-Wide Committees

1990-1995	Learning Technologies Committee
1993-1996	Distinguished Faculty Lecturer Committee
1994-1995	President's Committee on Faculty Governance
1994-1999	University Grievance Committee
1995-1996	University Faculty Senate
1996-1999	Graduate Council Advisory Committee
2004-2005	Graduate School Committee
2007-	Conflict of Interest Review Board
2009-2011	Distinguished Faculty Lecturer Committee
2011-	Comprehensive Cancer Center Internal Advisory Committee
2011-	Health Oversight Committee
2013	Search Committee for Dean of School of Engineering, Chair
2013	Search Committee for Dean of School of Medicine
2013	Search Committee for President
2014	Search Committee for Dean of Libraries
2016	Search Committee for Chief Financial Officer, Chair
2016-	Search Committee for Vice President for Development and Alumni Affairs
2017-	Council for Innovation and Entrepreneurship

C. National Committees

1994-1995	Alabama Section President, American Association for Dental Research (AADR)
1995-2000	NIH Small Business Innovation Research (SBIR) Grant Review Committee
1995-	NIH Scientific Review Consultant
1996-	American Academy of Periodontology Research Sub-committee
1996-1997	AADR Councilors

1997-1998 International Association for Dental Research (IADR) Councilor
 2000-2003 IADR Membership and Recruitment Committee
 2002-2005 American Dental Association (ADA) Commission on Dental Accreditation
 2002-2004 American Academy of Periodontology (AAP) Committee on Emerging Clinical Science
 2003-2009 Commission on Dental Accreditation (CODA), Periodontal Consultant
 2004-2008 ADA Joint Commission on National Dental Examinations (JCNDE)
 2006-2007 Committee on Examination Development, ADA JCNDE, Chair
 2005-2007 AAP Tarrson Oral Plastic Surgery Research Award Committee
 2006-2014 AAP Examiner
 2008-2010 AAP Tarrson Oral Plastic Surgery Research Award Committee
 2008-2011 AAP Leadership Development and Qualifications Committee, Chair (2011)
 2009-2010 AAP Task Force on Future Science
 2010-2013 AAP Scientific Oversight Committee, Chair
 2014- ADEA Student Financial Aid Advisory Committee
 2014- ADEA Council of Deans, Chair-elect (2016-17), Chair (2017-18)
 2014- AADR Government Affairs Committee
 2015- AAP Scientific Oversight Committee
 2016 AAP Publications Task Force

D. Professionally-Related Community Service

2006- VA Regional Medical Center, Birmingham, AL
 2011- UAB Civitan-Sparks Center Dental Clinic, Birmingham, AL
 2012- Alabama Institute for the Deaf and Blind, Talladega, AL
 2012- Christ Health Center, Birmingham, AL
 2012- KidCheck Interprofessional Screening, Birmingham, AL
 2012- UAB Dentistry Cares Community Day, Birmingham, AL
 2012-2016 Equal Access Birmingham, Birmingham, AL
 2013- Fair Haven Retirement Community, Birmingham, AL
 2013- Franklin Primary Health Center, Mobile, Loxley, & Brewton, AL
 2013- HEALS Clinic, Huntsville, AL
 2013- Montgomery Primary Care, Montgomery, AL
 2013- Poarch Band of Creek Indians Dental Clinic, Atmore, AL
 2013- Quality of Life Health Services, Gadsden, AL
 2013- Tuscaloosa County Health Department, Tuscaloosa, AL
 2014- Cahaba Valley Health Care, Birmingham, AL
 2014- Maude Whatley Center, Tuscaloosa, AL
 2016- Alabama Department of Senior Services, Montgomery, AL
 2016- Cahaba Medical Center, Bibb County, AL
 2016- The Albert Schweitzer Fellowship, Alabama Chapter
 2017- DentaQuest, Pinson, AL
 2017- Give Kids a Smile, Birmingham, AL

ACADEMIC

1. Academic Appointments

1988-1989 Post-Doctoral Instructor in Periodontics,
Harvard School of Dental Medicine

1989-1992 Assistant Professor of Periodontology, UAB

1990- Appointed to Graduate School Faculty, UAB

1992-1997 Associate Professor of Periodontology, UAB

1996-2003 Director, Advanced Education Programs in Periodontics, UAB

1997- Scientist, Center for Metabolic Bone Disease, UAB

1997- Scientist, Center for Aging, UAB

1997- Professor of Periodontology, UAB

1998-2004 Assistant Dean for Planning and Clinical Activity, UAB

2003-2004 Interim Chair, Department of Periodontology, UAB

2004-2011 Chairman, Department of Periodontology, UAB

2011-2012 Interim Dean, UAB School of Dentistry

2011- Senior Scientist, Diabetes Research and Training Center, UAB

2011- Senior Scientist, Global Center for Craniofacial, Oral and Dental
Disorders (GC-Coded), UAB

2012- Dean, UAB School of Dentistry

2012- Co-Director, Track 1 DMD/PhD Program, UAB

2012- Co-Director, Dental Academic Research Training Program, UAB

2015- Senior Scientist, Comprehensive Arthritis, Musculoskeletal, Bone
and Autoimmunity Center (CAMBAC), UAB

2016- Senior Scientist, Microbiome Center, UAB

2. Awards and Honors

1980 Sigma Xi

1981 Who's Who Among American College and University Students

1981 Registry of Outstanding College Students

1983 Alpha Chi National Honor Society

1983 State of Connecticut Graduate Student Scholar Award

1986 Harvard Odontological Society Award

1986 American Society of Dentists Award

1989 James Shaw Award, Harvard School of Dental Medicine

1992 Omicron Kappa Upsilon

1992 Clinical Research Award, American Academy of Periodontology

1998 American Dental Education Association Institute Fellow

2000 American College of Dentists

2005 Award for Best Article Published in The International Journal of
Oral and Maxillofacial Implants, The Academy of Osseointegration

2006 R. Earl Robinson Award for Pivotal Trial Publication, American
Academy of Periodontology: "Platelet-Derived Growth Factor
Stimulates Bone Fill and Rate of Attachment Level Gain: Results of
a Large Multi-center Randomized Controlled Trial." J Periodontol
76:2205-2215, 2005

2007 International College of Dentists

2008 American Academy of Periodontology Educator Award

2011	Most Excellent Fellow, Alabama Dental Association
2011	Special Citation Award, American Academy of Periodontology: Creation of Clinical Advances in Periodontology Journal
2014	R. Earl Robinson Periodontal Regeneration Award, American Academy of Periodontology Foundation: "Platelet-Derived Growth Factor Promotes Periodontal Regeneration in Localized Osseous Defects: 36 month extension results from randomized, controlled, double-masked clinical trial." J Periodontol 84(4):456-464, 2013.
2014	Pierre Fauchard Academy International Honorary Dental Organization
2016	First Holder of the University of Alabama School of Dentistry Alumni Association Endowed Professorship
2016	William J. Gies Award -- Periodontology, American Dental Education Association (ADEA)
2017	Bell Leadership Institute

3. Teaching Philosophy

As a university professor, my teaching philosophy centers on helping students go above and beyond a fundamental understanding of the course content. It is rooted in the belief that fostering critical thinking facilitates lifelong learning skills. As a clinical instructor, my approach is to guide students in the development of evidence-based clinical problem-solving strategies, preparing them to function as highly-skilled clinicians across the broad scope of practice. Scientifically, my methodology is built upon teaching students to ask hypothesis-driven questions as a catalyst to the acquisition of new knowledge. Overall, it is my firm belief that active and experiential learning drives positive student learning outcomes.

Given that professional school learning is necessarily weighted toward acquisition of foundational clinical concepts and knowledge, I employ a combination of interactive lecture and problem-based learning formats to enrich the learning environment for students with a variety of learning styles. I utilize a variety of tools such as case studies, video, and simulation exercises to help take my classroom instruction beyond the basic didactic lecture.

Service-learning is a pedagogical approach that I believe adds value for students at all levels. It is another experiential learning tool that allows students to apply their knowledge and put a framework around the interrelationship between formal education and personal educational objectives. I also feel it is important to include writing skills and communication in curriculum. I believe this applies equally to scientific research and clinical education as it does to liberal arts and business education.

One of my favorite aspects of a career in academia is the opportunity to teach. I enjoy encouraging the pursuit of new knowledge and believe that the translation of knowledge to the next generation is among the most exciting aspects of university service.

4. Teaching Experience

A. Harvard School of Dental Medicine

1985-1989	Lectures on clinical periodontology
1985-1989	Lectures on preventive dentistry
1985-1989	Lectures on diagnosis and pathophysiology of periodontal disease
1985-1989	Clinical teaching of hygiene students, Forsyth Dental Center, Boston, MA
1987-1989	Clinical teaching of predoctoral students

B. UAB

1989-	Clinical teaching of predoctoral and post-graduate students
1990-1996	Coursemaster, Periodontology I and II
1989-	Lecturer, Periodontology I, II
1989-	Lecturer, Periodontology III, IV
1990-	Instructor, Ethics in Dentistry
1994-	Lecturer, Introduction to Surgical Implantology
1994-	Lecturer, Graduate Prosthetic Dentistry
1995-	Lecturer, Pediatric Dentistry
1996-2004	Coursemaster, Advanced Periodontal Therapeutics
1996-	Lecturer, Advanced Periodontal Therapeutics
1996-	Grand Rounds, Children's Hospital of Alabama
1996-2004	Coursemaster, Periodontal Literature Reviews
1989-	Lecturer, Periodontal Literature Reviews
1996-2004	Coursemaster, Periodontal Clinical Case Conference

C. Thesis Committees/PhD Dissertation Committees

1994	Fu, Liang-Yu	Master's Thesis
	Retrospective Investigation of Three Implant Systems	
1995	Byrd, Vetrica L.	Master's Thesis
	Semiautomated Image Registration for Digital Subtraction Radiography in Dentistry	
1995	Geurs, Nico C.	Master's Thesis
	Quantitative Analysis in Dental Radiography for Dental Implants	
1995	Haigh, Sandra J.	Master's Thesis
	Components of Error in Dental Digital Radiography	
1995	Mayfield-Donahoo, Tracy	PhD Thesis
	Three-dimensional Surface Reconstruction of Conventional Tomograms for Planning Dental Implant Placement in the Mandible	
1995	Tsurudome, Steven	Master's Thesis
	Peri-implant Bone Height Analysis Prior to Functional Loading of Endosseous Dental Implants	
1995	Wang, I-Chung	Master's Thesis
	Risk Factors in Early Implant Failure	
1996	Hamal, Rupa	Master's Thesis
	Clinical and Laboratory Evaluation of Mandibular Fixed Detachable Implant Frame-work Fidelity Using Milled VS Plastic Copings	

1997	Sims, Kevin M. Periodontal Vertical Defect Model Development in Beagle Dogs	Master's Thesis
2000	Faler, Ragan L. Periodontitis and Cardiovascular Disease	Master's Thesis
2002	Gonzalez, Javier E. Association Between Periodontal Disease and Premature Low-Birth Weight	Master's Thesis
2004	Romanos, Alain Efficacy of Micronized Acellular Dermal Graft for the Use in Interproximal Papillae Regeneration	Master's Thesis
2005	Chaddad, Karim Immediate Loading of Two Temporary Anchorage Devices	Master's Thesis
2006	Lee, Hung-Wen Efficacy of Platelet-Rich Plasma on Wound Healing	Master's Thesis
2008	Gay, Isabel UAB Periodontal Resident,	Master's Thesis
2009	Livada, Rania, "Association between clinical measurements of bone density with radiographic and histological data"	Master's Thesis
2010	Leavitt, Curry Correlation of Bone Density using Histomorphometric and Cone Beam Computed Tomographic Analysis	Master's Thesis
2010	Reganato, Anthony Esthetic Criteria Analysis of Single-Tooth Implant-Supported Restorations in the Anterior Maxilla	Master's Thesis
2010	Bottino, Marco Cicero Membranes for Periodontal Regeneration: From Commercially Available to Spatially Designed and Functionally-Graded Materials	PhD Thesis
2011	Pardo, Juan Francisco Impact of site development techniques in the soft tissue height on single implant supported prosthesis in the anterior maxilla	Master's Thesis
2012	Abou-Arraj, Ramzi The Characteristics of Soft Tissue Following Root Coverage Procedures with Two Types of Acellular Dermal Matrix Allografts	Master's Thesis
2012	Beaudry, Kathleen A Histologic and Radiologic Analysis of Bone Formation Under the Elevated Sinus Using Venous Coagulum as the Sole Filling Material	Master's Thesis
2012	Nguyen, Michael The Influence of Growth Factors Applied During Socket Conversion on the Incidence of Spontaneous Early Dental Implant Exposure	Master's Thesis
2012	Kaur, Maninder The effect of an intensive oral hygiene regimen on gingival inflammation during pregnancy: Clinical and laboratory	Master's Thesis
2013	Ntounis, Athanasios A Prospective Study of Bone Augmentation with Growth Factors in Extraction Sockets	Master's Thesis
2013	Bain, Jennifer Targeted Delivery of Osteoinductive Molecules to Bone Grafts	PhD Thesis

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|------|---|-----------------|
| 2015 | Felts-Randall, Elizabeth | Master's Thesis |
| | A prospective randomized clinical trial to assess the performance of microtextured dental implants with or without machined collar – 1 year results | |
| 2015 | Matin, Britany | Master's Thesis |
| | The accuracy of a clinician's assessment of insertion torque at implant placement | |

D. Current Students

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|------|--|------------|
| 2018 | Curry, Andy | PhD Thesis |
| | Developing methods to anchor osteoinductive molecules to bone graft materials to improve the regenerative potential of the graft | |
| 2018 | Pensa, Nicholas | PhD Thesis |
| | Improving angiogenesis within a bone injury site by delivering proangiogenic factors bound to implanted bone grafting materials | |

M S R

RESEARCH

1. Major Research Interests

A. Mentoring

While I have a deep commitment to educating students, there are few things that match the passion I have for mentoring next-generation scientists. I see this as both an ethical obligation and a privilege. Providing expert and strategic advice, my goal is to serve as a guide, a coach, and an ally, answering questions and ensuring completion of project milestones.

As Dean, I am delighted to have the opportunity and flexibility to continue helping budding researchers engage in scientific discovery, achieving their personal and professional career goals while ensuring that dentistry remains a scientifically-based, scholarly profession. My goal is to use the power of the Dean's Office, coupled with my passion in mentoring, to empower students, postdocs, and junior faculty members to pursue exciting and innovative opportunities and navigate the landscape of academia. In return, I enjoy the many benefits of mentoring, as students and colleagues bring fresh perspectives to challenging problems. Serving as a mentor provides me with a renewed sense of purpose. As I meet the challenges of leading an educational institution, I gain immense satisfaction from creating a legacy of next-generation scientists.

B. Contributions to Science

1) Development and application of biomimetic factors for osteoinductive bony regeneration

Bone grafts are used in orthopedic medicine for nonunion fractures and spinal fusion and in neurosurgery for calvarial deformities and trauma repair. In craniofacial and dental applications, bone grafts are utilized for filling defects, for periodontal regeneration, and for implant site development. Autogenous bone is considered the ideal graft material to replace missing bone as it contains the minerals, osteoinductive proteins, and osteoprogenitor cells that promote bone growth. Unfortunately, the benefits of autogenous bone are counterbalanced by several drawbacks. Harvesting bone from the patient is associated with increased morbidity, the requirement of a second surgery, and limited quantities of donor bone. To overcome these problems, our group has been investigating methods for improving the coupling of BMP2 and developing other osteoinductive factors for bone grafting indications.

2) Periodontal regeneration translational research

Periodontal researchers and clinicians, in an effort to develop effective regenerative therapies, have sought to understand key events involved in the regeneration of the periodontium. An increased knowledge of specific cellular response and function within the periodontium has led to the development of numerous treatment modalities exhibiting varying degrees of success. Although some treatments have yielded promising results, there remains a need for treatment that leads to faster and more

predictable regeneration of the periodontium. Building on these results, as well as on the knowledge gained from within the field of tissue engineering, our group strives to enhance periodontal regeneration: appropriate matrices, biologic mediators, and/or precursor cells. By providing these building blocks, the process of regeneration may be enhanced resulting in an earlier and greater regenerative response.

3) Understanding lysosomal cysteine protease role innate immunity

The current clinical strategy in the treatment of periodontitis is focused mainly on the local elimination of bacterial pathogens. Our approach is to target bacterial infection-induced periodontal inflammation and the consequential loss of alveolar bone and teeth. Cathepsin K (CTSK) is a peptidase C1 protein family member that is known to be a lysosomal cysteine protease. Cathepsin family members are known to be crucial for the innate immune response. Studies demonstrated that CTSK is required for Toll-like receptor (TLR) 9 functions in dendritic cells which play an essential role in innate recognition of microbial products and activation of defense responses. TLRs, which are an important part of the innate and adaptive immune system, have been proposed as driving the inflammation in the development of periodontitis. Our research led to the pivotal realization that CTSK also has significant functions in the immune system during periodontal and periapical diseases.

4) Diabetes and periodontal disease interactions

Recent epidemiologic and experimental animal research provides evidence of possible associations between oral infections, particularly periodontal disease, and diabetes, cardiovascular disease, and adverse pregnancy outcomes. Our research group has focused on understanding the specific nature of these associations and the underlying mechanisms of action, particularly on the relationship between diabetes and periodontal infection and potential mechanisms involved in local and systemic disease progression.

5) Oral health and adverse pregnancy outcomes

Oral infection is associated with preterm birth. Even when an oral problem occurs, only one-half of pregnant women attend to it. This problem is compounded by complex social, economic, and educational knowledge problems in addition to a lack of national clinical guidelines for the management of common oral conditions in pregnancy. Our research group is focused on the public health understanding and intervention strategies to limit oral health-related adverse pregnancy outcomes.

2. Funded Research

A. Previous Grants

1. NIH NSRA Fellow, Harvard School of Dental Medicine, 1985-1988.
2. Naproxen as an adjunct in the treatment of Rapidly Progressive Periodontitis. Harvard School of Dental Medicine, Syntex, Inc., 1988-1989; \$250,000 (total direct cost)
Principal Investigator
3. A study of periodontal disease activity modeling.
B R S G, 1990; \$9,780 (total direct cost)
Principal Investigator
4. A comparison of non-steroidal anti-inflammatory drug and placebo for the reduction of alveolar bone loss in periodontal disease.
Warner Lambert, 1990-1991; \$70,687 (total direct cost)
Co-Principal Investigator
5. A Study of the Effect of Ketorolac Tromethamine Oral Rinse on the Rate of Alveolar Bone Loss in Adult Periodontitis.
Procter & Gamble, 1990-1991; \$86,336 (total direct cost)
Co-Investigator
6. Flurbiprofen for the Maintenance of Bone Around Dental Implants.
The Upjohn Company, 1991-1992; \$91,174 (total direct cost)
Co-Principal Investigator
7. Implant, prosthetic and periodontal studies in monkeys.
NIH Program Project Grant (1990-1995)
Radiology Division, 1994- 1999; \$572,325 (total direct cost)
Co-Investigator
8. A Six-Month, Double-Blind, Randomized, Placebo-Controlled Study to Determine the Effectiveness of MK-217 in Reducing Alveolar Bone Loss in Patients with Periodontal Disease.
Merck Sharp and Dohme Research Labs, 1991-1992; \$123,481 (total direct cost)
Co-Investigator
9. Evaluation of MK-217 as an Inhibitor of Bone Loss Due to Periodontal Disease in Beagles.
Merck Research Company, 1992; \$100,321 (total direct cost)
Principal Investigator
10. Root Surface Calculus Detector.
Unilever Inc., 1991-1995; \$47,092 (total direct cost)
Co-Investigator

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11. A study to evaluate the efficacy of the Sustain implant.
Lifecore Biomedical, 1992-1998; \$104,300 (total direct cost)
Co-Investigator
 12. Effect of topical non-steroidal anti-inflammatory drug on periodontitis.
Procter & Gamble, 1993-1995; \$1,001,000 (total direct cost)
Co-Investigator
 13. Periodontal Disease Activity Modeling.
NIH R29 DE09698, 1993-1998; \$487,592 (total direct cost)
Principal Investigator
 14. Radiographic Analysis of Periodontal Regeneration.
Institute of Molecular Biology, 1993-1995; \$50,978 (total direct cost)
Principal Investigator
 15. Efficacy of an Anti-Inflammatory Oral Rinse for the Treatment of Periodontitis.
Procter & Gamble Co., 1996-2000; \$402,142 (total direct cost)
Co-Investigator
 16. TefGen - FD™ for the Enhancement of Periodontal Regeneration.
TefGen-USA, Inc., 1997-1999; \$8,750 (total direct cost)
Principal Investigator
 17. Evaluation of Novel Inhibitors of Bone Loss due to Periodontal Disease.
SmithKline Beecham Inc., 1999-2000; \$83,984 (total direct cost)
Principal Investigator
 18. Genotype Analysis of Periodontitis Patients in the Natural History of Disease Study.
The Procter & Gamble Co., 1999-2003; \$10,008 (total direct cost)
Principal Investigator
 19. Host Factors in Connective Tissue and Bone Loss.
NIH P20 DE12370. 1997-1998; \$144,000 (total direct cost)
Co-Investigator
 20. UAB Perinatal Emphasis Research Center
NIH P01 HD33927, 1997 – 2001; \$972,215 (total direct cost)
Co-investigator
 21. An investigation of oral hard tissue status in relation to skeletal bone mineral density measures and osteoporosis.
N01DE52605, NIH/Women's Health Initiative, 5/29/95 - 5/28/04; \$917,128 (total direct cost)
Co-Principal Investigator

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22. Oral and Skeletal Bone Loss in Older Men (a MrOS Dental Ancillary Study). 1R01DE14386, NIH/NIDCR, 5/1/02-1/31/07; \$460,133 (total direct cost)
Co-Investigator
23. Evaluation of Salicylic Acid Polymer as an Inhibitor of Bone Loss Due to Periodontal Disease in Beagles.
Polymerix, 05/02/02 – 05/01/03; \$78,985 (total direct cost)
Principal Investigator
24. Clinical Radiographic Analysis for Safety and Effectiveness of a Novel Bone Augmentation System.
BioMimetic Pharmaceuticals, Inc., 01/01/03 – 12/31/03; \$16,056 (total direct cost)
Principal Investigator
25. MOTOR: Maternal Oral Therapy to Reduce Obstetric Risk.
NIH/NIDCR, 4/1/03 – 3/31/08; \$1,819,038 (total direct cost)
Co-Investigator
26. The Efficacy of Gore Resolute Adapt LT Membranes for Use in Lateral Ridge Augmentation.
W.L. Gore & Associates, 9/1/03 – 8/31/05; \$31,879 (total direct cost)
Co-Investigator
27. Radiographic Analysis for Safety and Effectiveness of GEM 21S.
BioMimetics Pharmaceuticals, Inc., 02/01/2005-12/31/2005; \$8,100 (total direct cost)
Principal Investigator
28. Qualification of Clinical Radiographic Analysis for Safety and Effectiveness of a Novel Bone Augmentation System.
BioMimetics Pharmaceuticals, Inc., 06/01/2004 – 12/31/2006; \$25,200 (total direct cost)
Principal Investigator
29. A Study to Evaluate the Efficacy of the 3 mm Maximus Dental Implants in Areas of Limited Tooth-to-Tooth Spacing.
BioHorizons, 2/1/2004-1/31/2006; \$12,503 (total direct cost).
Principal Investigator
30. A 9-month, 3-arm multicenter clinical trial of treatment with Perioline Gel (2% minocycline HCL) for adjunctive use to scaling and root planing in adults with periodontal disease where Perioline Gel is compared to SRP and SRP with vehicle: Multicenter randomized trial using 3rd party outcome evaluation.

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31. Sunstar Butler, 07/18/2005 – 07/17/2006; \$133,513 (total direct cost)
Principal Investigator
 32. A prospective, randomized-controlled multicenter study of the Osseotite certain lateralized implant in short-span fixed bridge cases for preservation of crestal bone.
3i, 2005-2008; \$40,000 (total direct cost)
Principal Investigator
 33. A study to evaluate the Morse Taper Lock and connection of the Ace implant internal-connection and its effect of the biological gap.
Ace, 01/03/2005 – 06/30/2009; \$15,468 (total direct cost)
Principal Investigator
 34. Evaluation of NobelDirect OD Implant.
Nobel Biocare, 11/01/2004 – 12/31/2007; \$12,150 (total direct cost)
Principal Investigator
 35. Evaluation of a New Method to Detect Osteoporosis.
Imaging Therapeutics Inc., 2007 – 2008; \$173,777 (total direct cost)
Co-Investigator
 36. UAB Oral Health Research Curriculum Innovation.
NIH 5R25 DE15614-4, 04/01/2008-03/31/2009; \$144,096 (total direct cost)
Principal Investigator
 37. A study of oral health care education and therapy to reduce gingivitis during pregnancy.
Procter & Gamble, 2007-2010; \$200,000 (total direct cost)
Principal Investigator
 38. Differential healing response of growth factors for bony wound healing.
Biomimetics, 2007-2010; \$150,000 (total direct cost)
Principal Investigator
 39. A prospective study of bone augmentation techniques in extraction sockets and implant surface textures.
BioHorizons, Inc., 2008-2013; \$121,200 (total direct cost)
Principal Investigator
 40. A prospective, randomized-controlled evaluation of nanotite and osseotite surface implant performance in graduate student programs.
Biomet/3i, 2007-2012; \$145,000 (total direct cost)
Principal Investigator

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41. Diabetes and Periodontal Therapy Trial (DPTT).
NIH/NIDCR, 2008-2013; \$2,307,071 (total direct cost)
UAB Principal Investigator
 42. Diabetes and Periodontal Therapy Trial (DPTT).
NIH/NIDCR, 2009-2010; \$83,115 (ARRA Administrative Supplement)
UAB Principal Investigator
 43. Dental Academic Research Training – DART
NIH/NIDCR DE017607, 2007-2012; \$797,544 (total direct cost)
Principal Investigator: Mary MacDougall
Co-Investigator
 44. A prospective longitudinal study of growth factor enhanced socket conversion.
Academy of Osseointegration Foundation, 2009-2010; \$15,000 (total direct cost)
Principal Investigator: Nico Geurs
Co-Investigator
 45. A Controlled, Double-Blind, Randomized, Parallel-Arm, Clinical Trial to Evaluate the Effectiveness of Laser-Ablated Implant Abutments for Enhanced Oral Mucosal Healing.
BioHorizons, Inc., 2010-2012; \$80,500 (total direct cost)
Principal Investigator
 46. Oral Health and Pregnancy Infrastructure Planning.
Procter & Gamble, 2010-2011; \$63,140 (total direct cost)
Principal Investigator
 47. Digital Solutions Agreement by Straumann.
Straumann, 2011-2013; \$140,000 (total direct cost)
Principal Investigator
 48. A randomized controlled clinical trial to evaluate late-first to mid-second trimester introduction of advanced daily oral hygiene on pregnancy gingivitis and subsequent birth outcomes: Oral hygiene and maternity outcomes multi-center study (OHMOM).
Procter & Gamble, 2011-2015; \$1,200,000 (total direct cost)
Principal Investigator
 49. Multi-center study, post-market, prospective, randomized, examiner-only-masked study of root coverage with acellular dermal matrix: Puros dermis versus Alloderm.
Zimmer Dental, 2009-2011; \$59,388 (total direct cost)
Principal Investigator: Nico Geurs
Co-Investigator

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50. Dissection of the ACPA response in African-Americans with rheumatoid arthritis.
R01 AR062376, 9/1/11 – 8/31/15; \$1,100,000 (total direct cost)
Principal Investigator: Lou Bridges
Co-Investigator
51. A randomized, controlled, multicenter, clinical study evaluating the outcomes of periodontal surgery in supra-alveolar-type defects with or without Straumann Emdogain.
Straumann USA, 2012-2014; \$74,207 (total direct cost)
Principal Investigator
52. A Randomized, double-blind, controlled, multicenter dose verification clinical trial to evaluate the safety and effectiveness of Guidor growth factor enhanced graft substitute for the treatment of periodontal defects 6-months post-surgery. (Clinical trial)
Sunstar, 2012-2014; \$72,750 (total direct cost)
Principal Investigator
53. Prospective Study for Bone Augmentation Techniques in Extraction Sockets.
BioDlogics Protocol ID: Amnio-12, 2013 – 2015; \$56,542 (total direct cost)
Principal Investigator

B. Current Grants

1. Dental Academic Research Training (DART).
NIH/NIDCR T90 DE022736-05, 7/1/2012-6/30/2017; \$2,452,728 (total direct cost)
PI: MacDougall, Mary
Co-Investigator
2. Coupling Osteoinductive Factors to Graft Materials to Promote Osteoregeneration.
R01 DE024670-01, 8/2014 – 7/2019, \$1,250,000 (total direct cost)
Principal Investigators: Reddy, Michael S. and Bellis, Susan
Co-Principal Investigator
3. Inhibiting Periodontitis by Targeting Cathepsin K and Attenuating TLR Signaling.
R01 DE023813-01, 01/2014 – 11/2019; \$1,250,000 (total direct cost)
Principal Investigator: Li, Yi-Ping
Investigator

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4. 5 Year Assessment of BioHorizons' dental implants: Retrospective review of clinical and radiographic data.
BioHorizons, 2014-2017; \$ 63,885 (total direct cost)
Principal Investigators: Kaur, Maninder and Reddy, Michael S.
Co-Principal Investigator
 5. Survey of Oral Hygiene and Health of Mother and Child at 1-4 year Recall Period (OhBABY).
Proctor & Gamble, 2016-2019; \$141,683 (total direct cost)
Principal Investigators: Giesinger, Mia and Reddy, Michael S.
Co-Principal Investigator

C. Pending Grants

1. α 13 signaling negatively regulates inflammation and bone loss in periodontitis through NF- κ B.
NIH R01
Principal Investigator: Chen, Wei
Co-Investigator
2. Effect of Periodontal Treatment on CVD.
NIH R01
Principal Investigator: Merchant, Anwar
Co-Investigator
3. Employing AAV mediated gene therapy and novel iPS cell therapy effectively treats periodontal disease and repairs alveolar bone in mouse model of periodontitis.
NIH R01 DE025842
Principal Investigator: Chen, Wei
Co-Investigator
4. Dental Academic Research Training (DART).
NIH/NIDCR T-90/R90; 2017-2022; \$3,000,000
Principal Investigator: Mary MacDougall
Co-Investigator

3. **Patents and FDA Submissions**

A. Patents

US Patent 61/262,034 High Torque Dental Implant System
Provisional US Patent Pending, Active Biomatrix

B. FDA Submissions

- 2013 "Targeted delivery of osteoinductive molecules to calcium phosphate dental implant surfaces"
- 2014 Pre-Submission application for new product entitled, "E7-BMP2pep"
- 2015 "Regenerative Bio System (RBS)," controlled delivery of osteoinductive factors for bony wound healing applications

CLINICAL

Hospital Staff Positions and Private Practice

1989-present The Children's Hospital of Alabama
1989-present UAB Faculty Group Practice

EDITORIAL BOARDS AND EDITORSHIPS

1990-1993 Journal of Periodontology, Ad hoc Reviewer
1993-2006 Journal of Periodontology, Editorial Board
1994- Journal of Dental Research, Ad hoc Reviewer
1996- Periodontal Literature Reviews, Section Editor
2001-2002 Journal of the American Dental Association, Ad hoc Reviewer
2002-2004 Journal of the American Dental Association, Editorial Board
2003- International Journal of Periodontics and Restorative Dentistry,
Ad hoc Reviewer
2003- Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology and
Endodontics, Ad hoc Reviewer
2005-2008 Journal of Dental Education, Editorial Review Board
2005-2011 Connections: Oral and Systemic Health Review,
Colgate-Palmolive Co., Advisory Board
2006- Journal of Periodontology, Associate Editor
2010- Clinical Advances in Periodontics, Editor

CONSULTANTSHIPS

1996-1998 Mississippi State University College of Veterinary Medicine
1999-2004 US Army Fort Gordon
2009- Food and Drug Administration Consultant, Center for Drugs,
Medical Devices and Radiological Health, US Department of Health
and Human Services

PROFESSIONAL SOCIETIES AND MEMBERSHIPS

1981- Alpha Chi
1981- Sigma Xi
1982- American Dental Association
1985- American Association of Dental Schools
1985- American Association for Dental Research
1985- International Association for Dental Research
1985- American Academy of Periodontology
1986-1989 Massachusetts Dental Society
1990-1994 Engineering in Medicine and Biology Society
1992- Birmingham Dental Society
1992- Alabama Dental Society
1992- Southern Academy of Periodontology
1992- Omicron Kappa Upsilon
1998- Alabama Periodontal Society
2000 American Dental Education Association Leadership Institute
2000- American College of Dentists

2002- Academy of Osseointegration
2007- International College of Dentists
2014- Pierre Fauchard Academy
2017- Bell Leadership Institute

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2. Jeffcoat MK, Williams RC, Reddy MS, English R, Holman BL, Goldhaber P. 1987. Diphosphonate bone scanning for the detection of active periodontitis. *I.E.E.E./E.M.B.S.* 2513:727-728
3. Williams RC, Jeffcoat MK, Howell TH, Reddy MS, Johnson HG, Hall CM, Goldhaber P. 1988. Topical flurbiprofen treatment of periodontitis in beagles. *J. Periodontol. Res.* 23:166-169. PMID:2969966
4. Williams RC, Jeffcoat MK, Howell TH, Reddy MS, Johnson HG, Hall CM, Goldhaber P. 1988. Ibuprofen: An inhibitor of alveolar bone resorption in beagles. *J. Periodontol. Res.* 23:225-229. PMID:2972819
5. Jeffcoat MK, Williams RC, Reddy MS, English R, Goldhaber P. 1988. Flurbiprofen treatment of human periodontitis: effect on alveolar bone height and metabolism. *J. Periodontol. Res.* 23:381-385. PMID:2975331
6. Williams RC, Jeffcoat MK, Howell TH, Rolla A, Teoh N, Reddy MS, Goldhaber P. 1989. Altering the progression of human alveolar bone loss with the non-steroidal anti-inflammatory drug flurbiprofen. *J. Periodontol.* 60:485-490. PMID:2677301
7. Lynch SE, Williams RC, Polson AM, Howell TH, Reddy MS, Zappa UE, Antoniades HN. 1989. A combination of platelet-derived and insulin-like growth factors enhances periodontal regeneration. *J. Clin. Periodontol.* 16:545-548. PMID:2778088
8. Howell TH, Reddy MS, Weber HP, Li KL, Alfano MC, Vogel R, Tanner AC, Williams RC. 1990. Sulfadiazines prevent plaque formation and gingivitis in beagles. *J. Periodontol. Res.* 25:197-200. PMID:2142727
9. Jeffcoat MK, Reddy MS, Jeffcoat RL. 1990. A morphologically aided technique for quantitative subtraction of dental radiographic images. *I.E.E.E./E.M.B.S.* 12:2060-2070.
10. Reddy MS, Webber RL, Patel JR, Jeffcoat MK. 1990. Compensating for non-linear errors in quantitative dental digital subtraction radiology. *I.E.E.E./E.M.B.S.* 12:2073-2075
11. Howell TH, Reddy MS, Weber HP, Li KL, Alfano MC, Vogel R, Tanner AC, Williams RC. 1990. Sulfadiazines reduce gingivitis and plaque formation in beagle dogs. *J. Clin. Periodontol.* 17:734-737. PMID:2262588

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 13. Jeffcoat MK, Reddy MS. 1991. A comparison of probing and radiographic methods for detection of periodontal disease progression. *Current Opinion in Dentistry*. 1:45-51. PMID:1912633
 14. Reddy MS, English R, Jeffcoat MK, Tumeh SS, Williams RC. 1991. Detection of periodontal disease activity with a scintillation camera. *J. Dent. Res.* 70:50-54. PMID:1991860
 15. Jeffcoat MK, Reddy MS. 1991. Progression of probing attachment loss in adult periodontitis. *J. Periodontol.* 62:185-189. PMID:2027069
 16. Jeffcoat MK, Page R, Reddy MS, Wannawisute A, Waite P, Palcanis K, Cogen R, Williams RC, Basch C. 1991. Use of digital radiography to demonstrate the potential of Naproxen as an adjunct in the treatment of rapidly progressive periodontitis. *J. Periodontol. Res.* 26: 415-421. PMID:1832454
 17. Reddy MS, Bruch JM, Jeffcoat MK, Williams RC. 1991. Contrast enhancement as an aid to interpretation of digital subtraction radiography. *Oral Surg.* 71: 763-769. PMID:2062529
 18. Lynch SE, Ruiz de Castilla G, Williams RC, Kiritsy CP, Howell TH, Reddy MS, Antoniades HN. 1991. Short-term administration of a combination of platelet-derived and insulin-like growth factors stimulates osteogenesis and periodontal regeneration in vivo. *J. Periodontol.* 62: 458-467. PMID:1920013
 19. Reddy MS, Webber RL, van den Berg R, Weems R, van der Ven R, Jeffcoat MK. 1991. A video feedback repositioning method for standardized dental radiographs. *I.E.E.E./E.M.B.S.* 13: 352-354
 20. Jeffcoat MK, Jeffcoat RL, Reddy MS. 1991. A dental implant treatment planning tool for low-cost imaging workstations. *I.E.E.E./ E.M.B.S.* 13: 348-349
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 22. Howell TH, Jeffcoat MK, Goldhaber P, Reddy MS, Kaplan ML, Johnson HG, Hall CM, Williams RC. 1991. Inhibition of alveolar bone loss in beagles with the NSAID naproxen. *J. Periodontol.* 26: 498-501. PMID:1837054

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 133. Neumeier T, Reddy MS, Geurs N, Hill J. Two-Year Outcome of Seven HIV Patients with Dental Implant Restorations in the Esthetic Zone. *Academy of Osseointegration*, 2015.
 134. Robinson MA, Reddy MS. Applying Corporate Climate Principles to Dental School Operations. *J. Dent. Educ.* 80:1413-1421, 2016.

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135. Reddy M, Geurs NC, Geisinger ML, Kaur M, Biggio J, Jeffcoat M, Tanna N, Parry S, Doyle MJ, Grender JM, Gerlach RW. Gingivitis during the first/second trimesters of pregnancy. *J. Dent. Res.* 95:213, 2016.
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4. Selected Invited Lectures and Presentations

1. Advances in periodontal disease diagnosis. Greater Worcester Dental Society, Worcester, MA. March 1988.
2. Periodontal disease activity: prospects for the future. Queens Dental Meeting, New York, NY. May 1988.
3. The Role of Anti-Inflammatory Agents in Periodontal Therapy. Inflammation Research Association, New York, NY, January 1989.
4. Periodontal Disease Diagnosis: Current Status and Future Systems. Merrimack Valley Dental Society, Lowell, MA, April 1989.
5. Diagnosis of Periodontitis. Metro West Dental Society, Cambridge, MA, April 1989.
6. Prospects for Pharmacologic Management of Periodontal Disease. Eastman Dental Center, Rochester, NY, May 1989.
7. Radiographic Methods in the Evaluation of Periodontal Therapy. ADA Methodologies in Evaluation of Periodontal Therapy Conference, Chicago, IL, October 1991.
8. Bone Loss in Periodontal Disease. Bone Metabolism Workshop. Upjohn Co. Orlando, FL, January 1992.
9. Radiographic Analysis of Dental Implants. Lifecore Biomedical, Minneapolis, MN, January 1992.
10. Computers and Electronic Imaging in Institutional Teaching and Patient Care: Today and Tomorrow. AADS Boston, MA, March 1992.
11. Radiographic Methods in Clinical Trials of Alveolar Bone Loss. Lunch and Learning, AADR Boston, MA, March 1992.
12. Dental Implantology Symposium and Workshop. King Saud University, Saudi Arabia, January 1994.
13. Periodontology Update. 8th District Alabama Dental Society, Huntsville, AL, May 1994.

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14. When to use HA coated implants. Dental Implant Research Group. St. Thomas, USVI, March 1995.
 15. Surgical Considerations and Procedures. Taiwan -- UAB Dental Implantology Symposium. Birmingham, AL, April 1996.
 16. Use of Radiographs and Periodontal Probing in Diagnostic Clinical Trials. NIH-NIDR Clinical Trials Symposium. Bethesda, MD, February 1996.
 17. Dental Implant Treatment Planning. Montgomery Study Club, Montgomery, AL, April 1996.
 18. Measurements of Implant Stability. Alabama Implant Congress. Birmingham, AL, April, 1996.
 19. Surgical Considerations of Contemporary Dental Implantology. Chang Gung Memorial Hospital International Symposium on Dentistry. Taipei, Taiwan, October 1996.
 20. Implants in Dentistry. Kaoshiung Medical College. Kaoshiung, Taiwan, October 1996.
 21. Periodontics and Esthetics. Birmingham District Dental Society, Birmingham, AL, April 1997.
 22. Contemporary Periodontics. Montgomery, AL, November 1997.
 23. Dental Implants for the General Dentist. Huntsville, AL, April 1998.
 24. Clinical Trial Design. UAB Dental School Symposium, Birmingham, AL, May 1998.
 25. Are clinical measurements indicative of progressive attachment loss? International Association for Dental Research, Nice, France, June 1998.
 26. Radiographic Determinants of Implant Performance. International Conference on Oral Biology (ICOB), Baveno, Italy, June 1998.
 27. Advances in Technology from Digital Subtraction Radiography to Dental Implants: The effect on the Practice of Periodontics. North Carolina Society of Periodontology. Blowing Rock, NC, July 1998.
 28. Technological Advances in Periodontics. Fort Gordon Periodontic Residency Program, Augusta, GA, May 1999.

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29. Surgical and Prosthodontic Considerations of Contemporary Dental Implantology. Chung Shan Medical and Dental College, Taichung, Taiwan, May 1999.
 30. New therapy for the treatment of bone disease. Boston, MA, June 1999.
 31. Fixed Implant Restoration for the General Dentist. Alabama Academy of General Dentistry, San Destin, FL, September 1999.
 32. Osteoporosis as a Risk Factor for Tooth Loss in the Adult Population. Birmingham District Dental Society, Birmingham, AL, November 1999.
 33. Treatment of Periodontal Pockets: What's available and what works. Alabama Dental Association, Orange Beach, AL, June 2000.
 34. Advances in Technology from Dental Subtraction Radiography to Dental Implants: The Effect on the Practice of Periodontics. Georgia Society of Periodontists,. Amelia Island, GA, July 2000.
 35. Osteoporosis and Dentistry. Arizona Department of Health Services, Phoenix, AZ, August 2000.
 36. Osteoporosis and Dentistry; Treatment of Periodontal Pockets: What's available and what works; Periodontics and Esthetics. Seventh District Dental Society, Tennessee State Dental Association, Jackson, TN, November 2000.
 37. Implant restoration influence on residual ridge resorption. American Association for Dental Research, Chicago, IL, March 2001.
 38. The Periodontal-Systemic Connection: A state-of-the-science symposium, Discussant for Osteoporosis, Bethesda, MD, April 2001.
 39. Implant restoration influence on residual ridge resorption. International Association for Dental Research, Chiba, Japan, June 2001.
 40. The association of periodontal disease and systemic diseases. 13th Annual Infectious Disease Conference, Huntsville, AL, November 2001.
 41. Technological advances in periodontal therapy. Northeast Arkansas District Dental Meeting, Jonesboro, AR, February 2002.
 42. The association of periodontal disease and systemic diseases. 3rd Annual Primary Care Health Forum Medical Center Blount, Oneonta, AL, April 2002.
 43. Oral health aspects of aging: Periodontology. Colgate Technology Center, Parsippany, NJ, May 2002.

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44. Local and systemic approaches to host modulation. American Academy of Periodontology Annual Meeting, New Orleans, LA, September 2002.
 45. 44th American Dental Education Association Dean's Conference. Pasadena, CA, November 2002.
 46. Hormone replacement therapy and alveolar bone height. AADR, San Antonio, TX, March 2003.
 47. Huntsville District Dental Society, Huntsville, AL, April 2003.
 48. Alabama Dental Association Board Meeting. Montgomery, AL, May 2003.
 49. Grafton and Alloderm Partner Day. New Jersey, May 2003.
 50. Commission on Dental Accreditation AAP Periodontal Training-Consultants meeting, Chicago, IL, May 2003.
 51. Emerging Science and Technology and Their Impact on the Practice of Periodontics. Florida National Dental Conference, Orlando, FL, June 12-13, 2003.
 52. Emerging Science and Technology and Their Impact on the Practice of Periodontics. 8th District ALDA Meeting, Huntsville, AL, November 7, 2003.
 53. Perio-Prosthodontic Treatment Planning. Academy of Osseointegration Annual Meeting, San Francisco, CA, March 20, 2004.
 54. Periodontal Disease and Its Relationship to Preterm Labor. Capital Area Healthy Start Coalition, Tallahassee FL, March 30, 2004.
 55. Salicylic Acid Polymer as an Inhibitor of Bone Loss Due to Periodontal Disease in Beagles. IADR Annual Meeting, March 10-13, 2004.
 56. The Impact of Periodontics on Anterior Esthetics. American Association of Orthodontists, May 1, 2004.
 57. Periodontal Therapy and Esthetic Considerations. Richmond, VA Dental Study Club, May 11, 2004.
 58. Alabama Medicaid Agency Pharmacy and Therapeutics Committee Meeting. Montgomery, AL, October 27, 2004.
 59. Radiographic Alveolar Bone Change as an Outcome Measure for Therapies that Inhibit Bone Loss or Foster Bone Gain in Disease Management. "Efficacy Outcome Variables For The Evaluation Of Periodontal Disease Treatment" Expert Panel. University of North Carolina. January 28, 2005.

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60. Multi-centered Radiographic Analysis of a Regenerative Medicine Approach to Periodontal Bone Destruction. Southeast Workshop on Tissue Engineering and Biomaterials, Birmingham, AL, February 11, 2005.
 61. Interfacing Orthodontic Implants in Your Periodontal Esthetics Practice. The Harrelson Master Clinician Lecture, University of North Carolina, March 18, 2005.
 62. Immediate Cost-Effective Overdentures: The Team Approach. BioHorizons International Symposium, April 14, 2005.
 63. The Dramatic Influence of Science and Technology on the Management of the Periodontal Patient. Alabama Dental Association, Orange Beach, AL, June 11, 2005.
 64. Efficacy of Immediate Function 3mm Implants in Limited Spacing Areas. American Academy of Periodontology Annual Meeting, Denver, CO, September 27, 2005.
 65. Implant Placement for the Edentulous Mandibular Overdenture. American College of Prosthodontics, Los Angeles, CA, October 28, 2005.
 66. Cost Effective Overdentures. Oral and Maxillofacial Surgery Associates PC, Iowa, April 21, 2006.
 67. Immediate Cost-Effective Overdentures: The Team Approach. Efficacy of Narrow Diameter Implants in Areas of Limited Spacing: Results from a Prospective Clinical Trial. BioHorizons Global Symposium, Scottsdale, AZ, May 4-6, 2006.
 68. Advanced in Implant Technology and Tissue Regeneration. Achieving Predictable Outcomes with Acellular Dermal Graft Techniques. International Implant Conference, Mallorca, Spain, June 8-10, 2006.
 69. American Academy of Implant Dentistry, Chicago, IL, October 25, 2006.
 70. Achieving Predictable Outcomes with Acellular Dermal Graft Techniques State University of New York, Stony Brook, NY, November 6, 2006.
 71. The Dramatic Influence of Science and Technology on the Management of the Periodontal Patient, Jackson, MS, 2006.
 72. Immediate cost effective overdentures: The team approach. BioHorizons Global Symposium, Hollywood, FL, April 12-14, 2007.
 73. Efficacy of narrow diameter implants in areas of limited spacing: Results from a prospective clinical trial. BioHorizons Global Symposium, Hollywood, FL, April 12-14, 2007.

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74. Advances in implant technology and tissue regeneration. Achieving predictable outcomes with acellular dermal graft techniques. SEPA 2007, Seville, Spain, May 10-12, 2007.
 75. Advanced Technologies and site development for restorations of dental implants. Alabama Implant Study Club, Clearwater, FL, August 1-2, 2007.
 76. A hands-on course in implant surgery and prosthodontics. San Diego, CA, September 19-22, 2007.
 77. Treatment planning solutions and prosthetic techniques for long-term success. Sarasota, FL, March 28, 2008.
 78. Treatment planning with dental implants. Jackson, MS, April 11, 2008.
 79. Interfacing periodontics and orthodontic implants in your restorative practice. Sixth District Dental Society, Tuscaloosa, AL, April 18, 2008.
 80. Soft tissue benefits of one-piece implant designs. BioHorizons Global Symposium, San Diego, CA, May 3, 2008.
 81. Dental implant regenerative medicine: past, present and future. The Toronto Osseointegration Conference Revisited, Toronto, Canada, May 9, 2008.
 82. Perspectives on Esthetic Soft Tissue Management: A Panel Discussion. BioHorizons Corporate Forum, AAP Annual Meeting, Seattle, WA, September 6, 2008.
 83. Seattle Study Club, Seattle, WA, September 10, 2008.
 84. Dental Implant Continuum: Periodontal Parameters in Implant Supported Overdenture. Research Triangle Park, North Carolina, September 19-21, 2008.
 85. UAB Oral Systemic Health Link Seminar, October 29, 2008.
 86. A hands-on course in implant surgery and prosthodontics. San Diego, CA, December 9-12, 2008.
 87. Diagnostic Markers of Periodontics, AADR Annual Session, Miami, FL, March 31-April 3, 2009.
 88. Moderator, BioHorizons Global Symposium, Chicago, IL, May 1, 2009.
 89. Moderator, Narrow Diameter Implants: Expanding the scope of your practice. AAP Annual Meeting, Boston, MA, Sept 15, 2009.

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90. The latest in implant treatment options: Beginning with the end in mind. Nobel Biocare, Gadsden, AL, April 16, 2010.
 91. Moderator, Boston Periodontal Residents Meeting. Boston, MA, May 8, 2010.
 92. Greater Houston Periodontal Society Annual Meeting. Houston, TX, May 20, 2010.
 93. ICOI World Congress XVII "Tissue Engineering for Predictable Bone Regeneration" Hamburg, Germany, August 26-28, 2010.
 94. Dental Implants: Why, When, and How. Alabama Academy of General Dentistry - 37th Annual Review of Dentistry, Destin, FL, September 8, 2010.
 95. Triangle Dental Implant Institute Continuum, Raleigh, NC, September 24-26, 2010.
 96. Treatment of Inflammatory Periodontal Disease. American Academy of Periodontology Annual Meeting, Honolulu, HI, October 31, 2010.
 97. VII European Workshop in Periodontology, Participant, Segovia, Spain, November 7-10, 2010.
 98. A prospective, randomized-controlled study of BIOMET 3i Tapered implants placed by students in graduate programs. Academy of Osseointegration 26th Annual Meeting, Washington DC, March 5, 2011.
 99. Moderator, BioHorizons Global Symposium, Phoenix, AZ, May 2011.
 100. Engineering Biologic Width for Optimal Aesthetic Outcomes. BioHorizons Home Office VIP Day, Birmingham, AL, March 9, 2012.
 101. The Future of UAB Dentistry: The Synergism of Science and Patient Care. Huntsville-Madison County District Dental Society, Huntsville, AL, April 9, 2012
 102. The Future of UAB Dentistry: The Synergism of Science and Patient Care. Birmingham District Dental Society, Birmingham, AL, May 3, 2012.
 103. The Future of UAB Dentistry: The Synergism of Science and Patient Care. UAB Leadership Cabinet, Birmingham, AL, May 7, 2012.
 104. The Future of UAB Dentistry: Why Is There So Much to Smile About? Rotary Club of Birmingham, Birmingham, AL, May 16, 2012.
 105. The Future of Health Care. Alabama Student Dental Association (ASDA) District 5 Meeting, Destin, FL, September 14, 2012.

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106. The Future of UAB Dentistry: Why Is There So Much to Smile About? Wilson Chenault Dental Study Club, Decatur, AL, September 25, 2012.
 107. Immediate vs. Delayed Placement. Alabama Implant Symposium, Birmingham, AL, December 14, 2012.
 108. Engineering Biologic Width for Optimal Aesthetic Outcomes. Alabama Implant Study Group (AISG), Birmingham, AL, January 24, 2013.
 109. Strategically Optimizing Oral Health and Medical Wellness. Birmingham District Dental Society, Birmingham, AL, March 5, 2013.
 110. Strategically Optimizing Oral Health and Medical Wellness. Huntsville-Madison County District Dental Society, Huntsville, AL, April 1, 2013.
 111. Recognizing and Mitigating the Effects of Bias. Dentistry Cultural Advancement Team (DCAT 1), Birmingham, AL, April 16, 2013.
 112. The Future of UAB Dentistry. Rotary Club of Cullman, Cullman, AL, May 16, 2013.
 113. Engineering Biologic Width for Optimal Aesthetic Outcomes. UAB Oral & Maxillofacial Surgery Grand Rounds, Birmingham, AL, May 21, 2013.
 114. Strategically Optimizing Oral Health and Medical Wellness. Alabama Dental Society, Destin, FL, June 7, 2013.
 115. The Future of UAB Dentistry – Building Excellence. Alabama Society of Periodontists, Birmingham, AL, August 9, 2013.
 116. Navigating Common Gender Blind Spots. Dentistry Cultural Advancement Team (DCAT 2), Birmingham, AL, September 12, 2013.
 117. The Role of Dentistry in Health: Understanding How Flossing and Other Behaviors Determine the Future of Health Care. Third District Dental Society, Dothan, AL, October 18, 2013.
 118. The Present and Future of Oral Health in Alabama and Beyond. Wilson Chenault Dental Study Club, Decatur, AL, October 22, 2013.
 119. The Case for ‘Lateral Sinus Window’. UAB 3rd Annual Implant Symposium, Birmingham, AL, December 13, 2013.
 120. Implantology at UAB. UAB 3rd Annual Implant Symposium, Birmingham, AL, December 13, 2013.

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121. Ask, Assess, Appraise, Apply & Advocate: The 5 A's of Meaningful Clinical Advancement. Birmingham District Dental Society, Birmingham, AL, March 4, 2014.
 122. Application of Influential Reduction Strategies for Periodontal Conditions and Overall Oral Health. Chattanooga District Dental Society, Chattanooga, TN, March 11, 2014.
 123. The Alphabet Soup of UAB Dentistry: A Review of Programs. Huntsville-Madison County Dental Society, Huntsville, AL, April 14, 2014.
 124. Overview – Identifying Risk for the Dentate and Implant Patient. AAP Spring Conference, Chicago, IL, April 26-27, 2014.
 125. The I's Have It: Bridging the Introvert-Extrovert Communication Gap. Dentistry Cultural Advancement Team (DCAT 3), Birmingham, AL, May 13, 2014.
 126. AAP Workshop on Periodontal Regenerative Medicine, Chicago, IL, June 2-4, 2014.
 127. The Future of Oral Health Care. Wilson Chenault Study Club, Decatur, AL, August 26, 2014.
 128. Preparing Students to Practice Evidence-Based Dentistry: A Mixed Methods Conceptual Framework for Curriculum Enhancement. ADEA CCI International Workshop, Barcelona, Spain, September 14, 2014.
 129. A Step-by-Step Approach to Translate Your Clinical Material into a Published CAP Practical Applications Article. AAP Annual Meeting, San Francisco, CA, September 21, 2014.
 130. Looking at Decisions in a New Way. Dentistry Cultural Advancement Team (DCAT 4), Birmingham, AL, October 30, 2014.
 131. Functional Success and Esthetic Failure. 4th Alabama Implant Symposium, UAB, Birmingham, AL, December 12, 2014.
 132. By the Numbers – State of the School. Birmingham District Dental Society, Birmingham, AL, March 3, 2015.
 133. Predicting how research today will impact oral health care in the future. National Student Research Group Workshop, Boston, MA, March 11, 2015.
 134. The Future of Oral Health Education. Huntsville-Madison County Dental Society, Huntsville, AL, May 4, 2015.

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135. Understanding Vulnerability and Exploring the Paradox of Courage. Dentistry Cultural Advancement Team (DCAT 5), Birmingham, AL, May 12, 2015.
 136. Our Many Reasons to Smile – UAB Dentistry. Alabama Dental Association House of Delegates/General Assembly, Orange Beach, AL, June 10, 2015.
 137. Understanding the Power of a Smile. Wilson Chenault Dental Study Club, Decatur, AL, August 25, 2015.
 138. State of the School. Alabama Dental Society, Birmingham, AL, October 5, 2015.
 139. Creating Winning Habits. Dentistry Cultural Advancement Team (DCAT 6), Birmingham, AL, November 11, 2015.
 140. The Building Blocks of a Great Dental Education. Birmingham District Dental Society, Birmingham, AL, March 1, 2016.
 141. From Natural to Hi-Tech Applications in Implant Dentistry. Taiwan Academy of Implant Dentistry/Pan Pacific Implant Society 2016 Annual Meeting, Kaohsiung City, Taiwan, April 10, 2016.
 142. Is Higher Education at a Crisis Point? Dentistry Cultural Advancement Team (DCAT 7), Birmingham, AL, April 14, 2016.
 143. The Role of Dentistry in Health: Understanding How Oral Health and Other Behaviors Determine Overall Health. Alabama Dental Association Second District, Montgomery, AL, April 15, 2016.
 144. From Natural to Hi-Tech Applications in Implant Dentistry. Alabama Dental Association Fifth District, Gadsden, AL, May 13, 2016.
 145. Best Places - State of the School. Alabama Dental Association House of Delegates/General Assembly, Orange Beach, AL, June 8, 2016.
 146. Gingivitis During the First/Second Trimesters of Pregnancy. IADR/APR General Session, Seoul, Republic of Korea, June 23, 2016.
 147. Panel: Nuts and Bolts of Running a Dental School. ADEA Dean's Institute, Sedona, AZ, August 1, 2016.
 148. Is Talent Overrated? Dentistry Cultural Advancement Team (DCAT 8), Birmingham, AL, September 1, 2016.
 149. The Pillars of Our Success. Alabama Dental Society Zone One, Birmingham, AL, October 10, 2016.

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150. Implant Esthetics. Third District Dental Society, Dothan, AL, December 1, 2016.
 151. Recognizing and Mitigating the Effects of Bias. Dentistry Cultural Advancement Team (DCAT) presentation for UAB Community Week, Birmingham, AL, January 10, 2017.
 152. UAB Dentistry Top 10. UAB Pre-Dental Society Meeting, Birmingham, AL, February 13, 2017.
 153. UAB Dentistry: The best place to work, learn, and be a patient. UAB Student National Dental Association Impressions Program, Birmingham, AL, February 25, 2017.

M S R