

## CURRICULUM VITAE

### I. PERSONAL DATA

Name: Mark Allan Reynolds

Correspondence: University of Maryland, School of Dentistry  
Department of Advanced Oral Sciences and Therapeutics  
650 West Baltimore Street  
(410) 706-7461  
mreynolds@umaryland.edu

### II. EDUCATION

B.A. University of Maryland Baltimore County, Catonsville, MD  
*Psychology*

M.A. University of Maryland Baltimore County, Catonsville, MD  
*Community-Clinical Psychology*

D.D.S. University of Maryland, Dental School, Baltimore, MD

Certificate University of Maryland, Dental School, Baltimore, MD  
*Periodontics*

Ph.D. University of Maryland, Graduate School, Baltimore, MD  
*Oral and Experimental Pathology*

### III. EXPERIENCE IN HIGHER EDUCATION

1996-2000 Assistant Professor, Departments of Oral & Maxillofacial Pathology and Periodontics, University of Maryland, Dental School

2001-2008 Associate Professor, Departments of Oral & Maxillofacial Pathology and Periodontics, University of Maryland, Dental School

2001- 2013 Director, Advanced Dental Education Program in Periodontics, University of Maryland, Dental School

2001- present Regular Member, Graduate School, University of Maryland, Baltimore

2005- 2015 Chair, Department of Periodontics, University of Maryland, School of Dentistry

2009- present Professor, Department of Advanced Oral Sciences and Therapeutics (formerly Dept. of Periodontics), University of Maryland, School of Dentistry

2013- 2014 Interim Dean, University of Maryland, School of Dentistry

2014- present Dean, University of Maryland, School of Dentistry

## **Course Lectures**

### **Dental**

#### **Biomedicine**

Inflammation I. Acute	1996-01
Inflammation II. Chronic	1996-01
Wound Repair	1996-01
Neoplasia 1. Introduction	1996-01
Nutritional Disorders	1996-01
Connective Tissue Lesions	1996-01
Ulcerative Conditions	1999-01
Diseases of the Periodontium	1999-01
Small Group CPC Sessions	1996-01
Normal Oral Physiology of Aging	1999-00

#### **Periodontics**

Connective Tissue Biology and Extracellular Matrix	1995-13
Examination and Diagnosis of Periodontal Disease	1995-10
Treatment Planning the Type III and Type IV Case— The Role of Periodontics in the General Practice	1995-06
Treatment of Mucogingival Problems	2001
Evaluation of Initial Periodontal Therapy & Periodontal Maintenance	1995-13
Periodontal Regeneration: Bone Replacement Grafts	2010
Treatment Algorithms in Periodontics	2008-11
Gingival Diseases	2011-11

#### **Microbiology & Immunology**

Molecular Biology of Microbial Interactions with the Host in Periodontal Disease	2010-present
Modulation of the Host Response in Destructive Periodontal Disease	2010-present

#### **Professionalism**

Contemporary Periodontics	2005-2008
Ethics	1996-01

### **Dental Hygiene**

Inflammation	1997-00
Wound Repair	1997-00
Temporomandibular Disorders and Dental Implants	1997-00
Periodontal Infection and Systemic Disease	2006

### **Graduate**

#### **Pathology**

Current Classification of Periodontitis	1999-01
Diseases and Conditions Involving the Periodontium	1999-01
Inflammation and Repair I	1996-01
Inflammation and Repair II	1996-01
Traumatic and Regressive Changes	1996-01

Biology of Bone, Cementum, and Periodontal Ligament	1996-01
<u>Immunology &amp; Oral Diseases</u>	
Cell-Mediated Reactions: Effector Molecules and Effector Mechanisms	1999-05
Lymphokines, Cytokines, and Interleukins	1996-05
Cell Migration Patterns & Inflammation	1996-05
<u>Pain</u>	
Nonsteroidal Inflammatory Drugs	2003-06
Management of Chronic Pain	2007-14
<b>Post-Graduate</b>	
Bone Biology and Osseointegration	2008-10
Cell Migration Patterns & Inflammation	1996-05
Growth Factors in Tissue Engineering of Bone	2008-10
Lymphokines, Cytokines, and Interleukins	1996-05
<b>Course Director</b>	
<u>Dental</u>	
Principles of Biomedicine	2000-01
<u>Post-graduate Periodontics (Program Director 2001-13)</u>	
Introduction to Periodontal Therapy and Molecular Biology	2001-13
Literature Review (Yrs I, II, III)	2001-13
Diagnosis, Prognosis and Treatment Planning (Yrs I, II, III)	2001-13
Surgical Techniques (Yrs I, II, III)	2001-13
Research Methodology (Yrs I, II, III)	2001-13

**Invited Lectures (Selected, 1997- present)**

1. Impact of Cigarette Smoking on Periodontal Regeneration Following Surgical Therapy. *83<sup>rd</sup> Annual Meeting of the American Academy of Periodontology*, San Diego, CA (1997, October)
2. Regeneration—Human Histological Studies Regarding the Effects of Inflammation and DFDBA Particles. *83<sup>rd</sup> Annual Meeting of the American Academy of Periodontology*, San Diego, CA (1997, October)
3. Adjunctive Chemotherapeutics in Periodontal Therapy: New Directions. *Maryland State Dental Association Annual Symposium*, Columbia, MD (1997, December)
4. Biomedical Markers for Gingival Hyperplasia. Distinguished Scientist Lecture Series, University of Florida, Gainesville, FL (2000, March)
5. Comparison of Bone Replacement Grafts and Tissue Modulators for Periodontal Regeneration. *86<sup>th</sup> Annual Meeting of the American Academy of Periodontology*, Honolulu, HI (2000, September)
6. Clinical Management of Furcation Defects. *87<sup>th</sup> Annual Meeting of the American Academy of Periodontology*, Philadelphia, PA (2001, October)
7. Avoiding the Great Barrier Grief. *88<sup>th</sup> Annual Meeting of the American Academy of Periodontology*, New Orleans, LA (2002, September)

8. American Board Review—Part I. *88<sup>th</sup> Annual Meeting of the American Academy of Periodontology*, New Orleans, LA (2002, September)
9. Biology of Bone, Collagen, and Regeneration. *14<sup>th</sup> Annual Maryland Periodontal Board Review and Preparation Course*, Baltimore, MD (2002, July)
10. American Board Review—Part II. *88<sup>th</sup> Annual Meeting of the American Academy of Periodontology*, New Orleans, LA (2002, September)
11. Evidence-Based Understanding of Bone Replacement Therapy. *89<sup>th</sup> Annual Meeting of the American Academy of Periodontology*, San Francisco, CA (2003, September)
12. Immunology. *17<sup>th</sup> Annual Review of the Biologic and Clinical Aspects of Endodontology*. (Board Review Course) University of Michigan, Ann Arbor, MI (2003, March)
13. Biology of Bone, Collagen, and Regeneration. *15<sup>th</sup> Annual Maryland Periodontal Board Review and Preparation Course*, Baltimore, MD (2003, July)
14. American Board Review—Part I. *89<sup>th</sup> Annual Meeting of the American Academy of Periodontology*, San Francisco, CA (2003, September)
15. American Board Review—Part II. *89<sup>th</sup> Annual Meeting of the American Academy of Periodontology*, San Francisco, CA (2003, September)
16. Immunology. *18<sup>th</sup> Annual Review of the Biologic and Clinical Aspects of Endodontology*. (Board Review Course) University of Michigan, Ann Arbor, MI (2004, March)
17. Biology of Bone, Collagen, and Regeneration. *16<sup>th</sup> Annual Maryland Periodontal Board Review and Preparation Course*, Baltimore, MD (2004, July)
18. American Board Review—Part I. *90<sup>th</sup> Annual Meeting of the American Academy of Periodontology*, Orlando, FL (2004, November)
19. Immunology. *19<sup>th</sup> Annual Review of the Biologic and Clinical Aspects of Endodontology*. (Board Review Course) University of Michigan, Ann Arbor, MI (2005, March)
20. Biology of Bone, Collagen, and Regeneration. *17<sup>th</sup> Annual Maryland Periodontal Board Review and Preparation Course*, Baltimore, MD (2005, July)
21. American Board Review—Part I. *91<sup>st</sup> Annual Meeting of the American Academy of Periodontology*, Denver, CO (2005, September)
22. Interactive General Session—Treatment Planning. Treatment Planning: The Intrabony Defect. *91<sup>st</sup> Annual Meeting of the American Academy of Periodontology*, Denver, CO (2005, September)
23. Implant Dentistry: Emerging Technologies and Changing Paradigms. *Montgomery Bucks County Dental Society*, PA (2006, November)
24. Immunology. *20<sup>th</sup> Annual Review of the Biologic and Clinical Aspects of Endodontology*. (Board Review Course) University of Michigan, Ann Arbor, MI (2006, March)
25. Biology of Bone, Collagen, and Regeneration. *18<sup>th</sup> Annual Maryland Periodontal Board Review and Preparation Course*, Baltimore, MD (2006, June)
26. American Board Review—Part I. *92<sup>nd</sup> Annual Meeting of the American Academy of Periodontology*, San Diego, CA (2006, September)

27. Immunology. 21<sup>st</sup> *Annual Review of the Biologic and Clinical Aspects of Endodontology*. (Board Review Course) University of Michigan, Ann Arbor, MI (2007, March)
28. Biology of Bone, Collagen, and Regeneration. 19<sup>th</sup> *Annual Maryland Periodontal Board Review and Preparation Course*, Baltimore, MD (2007, July)
29. American Board Review—Part I. 93<sup>rd</sup> *Annual Meeting of the American Academy of Periodontology*, Washington, DC (2007, October)
30. Factors Affecting Success in Periodontal Regeneration. 93<sup>rd</sup> *Annual Meeting of the American Academy of Periodontology*, Washington, DC (2007, October)
31. Guided Tissue Regeneration: Current Concepts and Clinical Applications. 76<sup>th</sup> *Annual Nation's Capital Meeting*, Washington, DC (2008, January)
32. Implant Dentistry: Emerging Technologies, Changing Paradigms. Region V - *Academy of General Dentistry*, Washington, DC (2008, January)
33. Platelet Derived Growth Factor: Science and Clinical Applications. *Tennessee Society of Periodontists*, Nashville, TN (2008, January)
34. Chronic Inflammatory Disease: The Changing Face of Oral Health Care. *Delaware State Dental Society*, Dover, DE (2008, February)
35. Platelet Derived Growth Factor: Emerging Clinical Applications. *Annual Meeting of the Academy of Osseointegration*, Boston, MA (2008, February)
36. Chronic Systemic Inflammation. *Maryland State Society of Endodontists*, Pikesville, MD (2008, May)
37. Emerging Carrier Technologies for the Delivery of Differentiation Factors. *University Illinois at Chicago* (2008, June)
38. The Strategic Extraction in the Age of Dental Implants, *University of Maryland*, MD (2008, November)
39. Lumps, Bumps, and Sores: Diagnosis and Management of Oral Lesions. *Washington Iranian Dental Society*, Tysons Corner, VA (December, 2008)
40. Critical Analysis of Carriers for Delivery of Differentiation Factors. 95<sup>th</sup> *Annual Meeting of the American Academy of Periodontology*, Boston, MA (2009, September)
41. The Periodontal-Systemic Disease Connection: Aligning Recommendations with Evidence. 78<sup>th</sup> *Annual Nation's Capital Meeting*, District of Columbia (April, 2010)
42. Growth Factor and Cell-based Therapies. *Washington Implant Study Club*, Bethesda (April, 2010)
43. Regenerative Approaches in the Management of Furcation Defects. *Hellenic Society of Periodontology 10<sup>th</sup> International Symposium of Periodontology*, Athens, Greece (May, 2010)
44. Intrabony Defects: Developing Regenerative Algorithms for Treatment. *Hellenic Society of Periodontology 10<sup>th</sup> International Symposium of Periodontology*, Athens, Greece (May, 2010)
45. Role of Platelet Derived Growth Factor in Regenerative Therapy: New Perspectives. *10th International Symposium on Periodontics and Restorative Dentistry*, Boston, MA (June, 2010)

46. Defining Clinical Applications for Biologics. *96<sup>th</sup> Annual Meeting of the American Academy of Periodontology*, Honolulu, HA (November, 2010)
47. Contemporary Regenerative Approaches in the Management of Intrabony, Furcation, and Alveolar Ridge Defects. *17<sup>th</sup> Annual Meeting of the Alexandria International Dental Congress*, Cairo, Egypt (November, 2010)
48. Nonsurgical Therapy and Lasers. *Maryland Academy of General Dentistry*, Linthicum, MD (April, 2011)
49. Floss or Die: Aligning Practice Recommendations with Evidence. Annual Periodontics Alumni Meeting, *The Ohio State University*, Columbus, OH (April, 2011)
50. Current Evidence on the Role of Oral Infection in Systemic Disease. Journalist to Journalist Global Health Media Training, *National Press Foundation*, Washington, DC (June, 2011)
51. Periodontal-Systemic Disease Connection. *98<sup>th</sup> Annual Meeting of the National Dental Association*, Baltimore, MD (July, 2011)
52. Periodontal Diseases and Treatment. *Food and Drug Administration*, Center for Biologics Evaluation and Research, Rockville (December, 2011)
53. Are Biologic Additions for Periodontal Regenerative Care Necessary: Point-Counter Point. *97<sup>th</sup> Annual Meeting of the American Academy of Periodontology*, Miami, FL (2011, November)
54. Contemporary Periodontics: Emerging Technologies, Changing Paradigms. *22<sup>nd</sup> Annual Dr. Peter Fedi Periodontics Lecture*, *University of Missouri*. Kansas City (April, 2012)
55. Floss or Die? Aligning Practice Recommendations with Current Evidence. *The Ohio State University Post College Assembly* (May, 2012).
56. Periodontal Inflammation and Systemic Health. *Benjamin Tenenbaum Memorial Lecture*, *Columbia University College of Dental Medicine* (May, 2012)
57. Inflammation, Aging, and Disease. *91<sup>st</sup> Annual Meeting of the American Association of Women Dentists*, Chicago (June, 2012)
58. Mesenchymal Stem Cells in Osseous Reconstruction. *Annual Meeting of the Academy of Microscope Enhanced Dentistry*, San Diego (November, 2012)
59. Periodontal Treatment Recommendations under Scrutiny. *Baltimore and Washington, DC Alpha Omega Alumni Chapters* (January, 2013)
60. Periodontal Disease and Its Role in Systemic Health. *81<sup>st</sup> Annual Nation's Capital Meeting*, Washington, DC (March, 2013)
61. Inflammation: At the Intersection of Aging and Disease. *Texas A & M University, Baylor College of Dentistry*, Dallas (May, 2013).
62. Protein- and peptide-based Therapies in Bone and Periodontal Regeneration. *Federal University of Rio Grande do Sul*, Rio Grande do Sul, Brazil (October, 2013)
63. Oral Infection and Systemic Health. *Medical and Dental Center of the Military Police*, Rio Grande do Sul, Brazil (October, 2013)
64. Stem Cell Technologies in Periodontal Regeneration. *U.S. Army, Tingay Dental Clinic*, Fort Gordon, GA (December, 2013)

65. Advances in Periodontal and Bone Regeneration. *149<sup>th</sup> Annual Chicago Dental Society Midwinter Meeting*, Chicago, IL (February, 2014)
66. Is Inflammation the Tie that Binds? *149<sup>th</sup> Annual Chicago Dental Society Midwinter Meeting*, Chicago, IL (February, 2014)
67. Periodontal Regeneration in the Era of Lasers, Proteins, and Stem Cells. *57<sup>th</sup> Annual Meeting of the Midwest Society of Periodontology*, Chicago, IL (February, 2014)
68. Advances in Bone Grafting Techniques and Materials. *29<sup>th</sup> Annual Meeting of the Academy of Osseointegration*. Seattle, WA (March, 2014)
69. Emerging Technologies in Periodontics. *82<sup>nd</sup> Annual Nation's Capital Meeting*, Washington, DC (March, 2014)
70. Periodontal and Bone Regeneration in the Era of Lasers, Proteins, and Stem Cells. *College of Dentistry, King Saud bin Abdulaziz University for Health Sciences*, Riyadh, Saudi Arabia (April, 2014)
71. New Frontiers in Periodontal and Bone Regeneration. *Annual Meeting of the Academy of Microscope Enhanced Dentistry*, Baltimore, MD (June, 2014)
72. Stem Cells and Matrices in Periodontal Regeneration. *21<sup>st</sup> Annual Symposium of the Gerald M. Bowers Study Club in Periodontology*, Baltimore, MD (June, 2014)
73. Role of Lasers in Periodontal Regeneration. *100<sup>th</sup> Annual Meeting of the American Academy of Periodontology*, San Francisco, CA (September, 2014)
74. Advances in Periodontal and Bone Regeneration. *College of Stomatology, Shanghai Jiao Tong University School of Medicine*, Shanghai (June, 2014)
75. Allogeneic Cellular Bone Grafts: Caveats and Lessons. *5th Annual Columbia University/ICOI Dental Implant Symposium Cutting Edge Concepts in Implantology*, New York, NY (December, 2014)
76. Particulate Bone Grafts: Is There a Difference? *30<sup>th</sup> Annual Meeting of the Academy of Osseointegration*, San Francisco, CA (March, 2015)
77. Saving Teeth: Clinical Advances in Periodontal Regeneration. *Naval Postgraduate Dental School, NMPDC* (March, 2015)
78. Lasers: Separating Fact, Fiction, and Hype. *Naval Postgraduate Dental School, NMPDC* (March, 2015)
79. Lasers and Cell-based Allografts in Periodontal Regeneration. *American Academy of Periodontology Spring Conference, Embracing Technology to Enhance Clinical Practice*, Chicago, IL (May, 2015)
80. Floss of Die: Is Inflammation the Tie that Binds? *Annual Southwest Dental Conference*, Dallas, TX (August, 2015)
81. Clinical Advances in Bone and Periodontal Regeneration. *Annual Southwest Dental Conference*, Dallas, TX (August, 2015)
82. New Frontiers in Hard Tissue Engineering. *62<sup>nd</sup> Annual Scientific Session of the Western Society of Periodontology* (September, 2015)
83. Periodontal and Bone Regeneration: Principles to Practice. *91<sup>st</sup> Annual Greater New York Dental Meeting*, New York, NY (November, 2015)
84. Adjunctive Nonsurgical Periodontal Therapies: Best Practices? *91<sup>st</sup> Annual Greater New York Dental Meeting*, New York, NY (November, 2015)

85. Inflammation: Link Between Periodontitis and Systemic Diseases. *91<sup>st</sup> Annual Greater New York Dental Meeting*, New York, NY (December, 2015)
86. Peri-implant Diseases: An Emerging Crisis? *91<sup>st</sup> Annual Greater New York Dental Meeting*, New York, NY (December, 2015)
87. Hard Tissue Engineering: Role of Cellular-Based Allografts. *12th International Symposium on Periodontics and Restorative Dentistry*, Boston, MA (June, 2016)
88. Role of Biologics in Bone Regeneration. Annual Conference of the *American Academy of Implant Dentistry*, New Orleans, LA (October, 2016)
89. Saving Teeth: Advances in Periodontal and Bone Regeneration. Nihon University, School of Dentistry, Tokyo, Japan (March, 2017)
90. Saving Teeth: Advances in Periodontal Regeneration. Nippon Dental University, School of Dentistry, Tokyo, Japan, (March, 2017)
91. Saving Teeth: Advances in Periodontal and Bone Regeneration. Tokyo Dental College, Tokyo, Japan. (March, 2017)
92. Saving Teeth: Advances in Periodontal Regeneration. Asahi University, School of Dentistry Mizuho, Japan, School of Dentistry (March, 2017)
93. Periodontal Regeneration: Principles to Practice. *California Dental Association*, San Francisco, CA (August, 2017)
94. Adjunctive Nonsurgical Periodontal Therapies: Best Practices? *California Dental Association*, San Francisco, CA (August, 2017)
95. Periodontal Disease and Systemic Health. *California Dental Association*, San Francisco, CA (August, 2017)
96. New Frontiers in Periodontal Tissue Engineering. *Dr. Leonard Abrams Distinguished Speaker Series Lecture*, Temple University, Philadelphia (October, 2017)

## **Graduate Education**

### Thesis (M.S.) Committees

21 Committees (\*Chair)  
16 Committees (Member)

### Dissertation (Ph.D.) Committees

2 Committees (\*Chair)  
8 Committees (Member)



IV. **EXPERIENCE OTHER THAN IN HIGHER EDUCATION**

Gerontology Research Center, National Institute on Aging, NIH

Private Dental Practice, Edgewood, MD

Noxell Corporation, Research Services, Hunt Valley, MD

Dixon & Williams Pharmaceutical Company, Inc. Bernardsville, NJ

Office of the Director. Addiction Research Center, National Institute on Drug Abuse

Dentsply International, York, PA

Naval Postgraduate Dental School, National Naval Medical Center (Periodontics)

Chesebrough-Pond's USA Co., Research Laboratories, Trumbull, CT

LifeNet Transplant Services, Virginia Beach, VA

The Wilkerson Group, IBM, New York, NY

OraPharma, Inc., PA

BioMimetic Pharmaceuticals, Franklin, TN

LifeCore Biomedical, Chaska, MN

Johnson & Johnson, New Brunswick, NJ

Luitpold Pharmaceuticals, Shirley, NY

LifeNet Health, Virginia Beach, VA

Office of Cellular, Tissue, and Gene Therapy, FDA, Rockville, MD

V. **PROFESSIONAL ACTIVITIES**

**Professional Affiliations**

Academy of Osseointegration

American Academy of Periodontology

American Association for Dental Research

American Dental Association

American Dental Education Association

International Congress of Oral Implantologists

Maryland State Dental Association

## **Scientific Journals**

### ***Editorial Board***

*Clinical Advances in Periodontics (2011-present)*

*International Journal of Periodontics and Restorative Dentistry (2008-present)*

*Journal of Evidence-Based Dental Practice (2006- present; Section Editor 2006-12)*

*Journal of the Indian Society of Periodontology (2014-present)*

*Journal of Periodontal Research (2007 - present)*

*Journal of Periodontology (2001-06; Peer Review Panel 2007-Present)*

### **Program Participation (Selected)**

Papers presented at State, National, and International Programs (without published proceedings)

1. Siegman, A.W., & Reynolds, M.A. *Economy and hesitation in speech*. Paper presented at the annual meeting of the Eastern Psychological Association, Washington, DC. (March, 1978)
2. Siegman, A.W., & Reynolds, M.A. *Eye contact and self-disclosure in the initial interview*. Paper presented at the annual meeting of the Eastern Psychological Association, Philadelphia, PA. (April, 1979)
3. Siegman, A.W., & Reynolds, M.A. *On the communication of intimate messages*. Paper presented at the annual conference of the Eastern Communication Association, Philadelphia, PA. (May, 1979)
4. Siegman, A.W., & Reynolds, M.A. *Vocal correlates of gender: Stable markers or situation specific?* Symposium paper presented at the annual meeting of the American Psychological Association, New York, NY. (August, 1979)
5. Siegman, A.W., & Reynolds, M.A. *Interviews without interviewers*. Paper presented at the annual meeting of the Eastern Psychological Association, Hartford, CT. (April, 1980)
6. Reynolds, M.A., & Goodrick, C.L. *Resistance to extinction of genetically obese mice and normal mice following training on continuous and partial reward schedules*. Paper presented at the annual meeting of the Eastern Psychological Association, Hartford, CT. (April, 1980)
7. Siegman, A.W., & Reynolds, M.A. *Temporal patterning of speech and person perception in the initial interview*. Paper presented at annual conference of the Eastern Communication Association, Ocean City, MD. (May, 1980)
8. Reynolds, M.A., & Siegman, A.W. *The voice of deception*. Paper presented at the annual meeting of the Eastern Psychological Association, New York, NY. (April, 1981)
9. Siegman, A.W., & Reynolds, M.A. *Self-monitoring and speech style*. Paper presented at the annual meeting of the Eastern Psychological Association, New York, NY. (April, 1981)

10. Ingram, D.K., Freeman, J.R., & Reynolds, M.A. *Thirst-motivated complex maze learning in young and aged mice*. Paper presented at the annual meeting of the Eastern Psychological Association, Baltimore, MD. (April, 1981)
11. Siegman, A.W., & Reynolds, M.A. *The validity of Snyder's self-monitoring scale as a measure of self-control*. Symposium paper presented at the annual meeting of the Eastern Psychological Association, Baltimore, MD. (April, 1982)
12. Reynolds, M.A., & Siegman, A.W. *Voice of deception: Vocal correlates of unfeigned deceit*. Poster presented at the annual meeting of the American Psychological Association, Washington, DC. (August, 1982)
13. Siegman, A.W., & Reynolds, M.A. *Self-monitoring and deception skills*. Poster presented at the annual meeting of the American Psychological Association, Washington, DC. (August, 1982)
14. Spangler, E.L., & Reynolds, M.A. *On the role of gender in pain perception*. Poster presented at the annual meeting of the Eastern Psychological Association, Baltimore, MD. (April, 1984)
15. Reynolds, M.A., Spangler, E.L., & Phillips, B.L. *Locus of control: The perception of aversive events as stressful*. Poster presented at the annual meeting of the American Psychological Association, Los Angeles, CA. (August, 1985)
16. Waller, S.B., Ball, M.J., Reynolds, M.A., & London, E.D. *Muscarinic binding and acetyltransferase activity in postmortem brains of demented patients*. Poster presented at the International Symposium on Organic Dementias, London, Ontario, Canada. (June, 1986)
17. Snyder, F.R., & Reynolds, M.A. *Methodone and acetylmethadol: Systematic versus differential effects on affective states*. Paper presented at the annual meeting of the American Psychological Association, Washington, DC. (August, 1986)
18. Reynolds, M.A. *Dental changes with age*. Invited paper presented at the annual meeting of the American College of Clinical Gerontologists, New York, NY. (October, 1987)
19. Krupa, C.M., Minah, G., Rose, W., Reynolds, M., & Suzuki, J.B. *Clinical and microbial impact of simultaneous ultrasonics and subgingival irrigation in periodontitis patients*. Presentation at the annual meeting of the American Public Health Association, Washington, DC. (November, 1988)
20. Krupa, C.M., Minah, G., Rose, W., Reynolds, M.A., & Suzuki, J.B. *Clinical and microbial impact of simultaneous ultrasonics and subgingival irrigation in periodontitis patients*. Presentation at the 11<sup>th</sup> International Symposium on Dental Hygiene, Ottawa, Canada. (June-July, 1989)
21. Reynolds, M.A., Clemons, G.P., Agarwal, S., Boughman, J.A., Astemborski, J.A., Faulker, Jr., W.A., & Suzuki, J.B. *Serum antibodies and attachment loss in early-onset periodontal diseases*. Presentation at the annual meeting of The American Academy of Periodontology, Dallas, TX. (October, 1990)
22. Agarwal S., Reynolds M.A., and Suzuki J.B. *Oxidative Metabolism in neutrophils from localized juvenile periodontitis (LJP): Mechanisms of activation*. VIII International Conference for Periodontal Research, San Antonio, TX. (November, 1990)

23. Sauk, J.J., Norris, K., Hebert, C., & Reynolds, M. Cell surface expression of Hsps is mediated by multidrug-resistance modulators and reduction of intracellular pH of oral epidermoid carcinoma cells. *Keystone Symposia: Cell Immunology and Immunotherapy of Cancer III*. (January, 1997)
24. Reynolds, M.A., Guthmiller, J.M., & Sauk, J.J. Role of confounding variables in evaluating periodontal disease as a risk factor. Presentation at the Sunstar-Chapel Hill Symposium '97 entitled *Periodontal Diseases and Human Health: New Directions in Periodontal Medicine*, Chapel Hill, NC. (March, 1997)
25. Sauk, J.J., Norris, K., Hebert, C., & Reynolds, M. A. Cell surface expression of an Endoplasmic Reticulum Collagen Chaperone, Hsp47, Limits tumor cell invasion and motility. *Keystone Symposia: Cell Immunology and Immunotherapy of Cancer*. (January, 1998)
26. Davorka, S., Croft, L., Braendle, L., Crouch, K., Reynolds, M., & Wolfinbarger, Jr., L. Effect of polyglycolic/polylactic acid carriers on the osteoinductive potential of DFDBA. Presentation at the annual meeting of Cell and Tissue Bioprocessing, Arlington, VA. (September, 1999)
27. Nikitakis, N.G., Hebert, C., Reynolds, M.A., Hamburger, A.W., & Sauk, J.J. Antineoplastic Effect of NSAID Sulindac on Human Oral Squamous Carcinoma Cells. Presentation at the annual meeting of the American Academy of Oral and Maxillofacial Pathology, New Orleans, LA. (April, 2002)
28. Sarlani E., Grace E.G., Reynolds M.A., Greenspan J.D. Evidence for upregulated central processing of nociceptive input in temporomandibular disorders patients. Presentation at the 28th Annual Scientific Meeting of the American Academy of Orofacial Pain, Dorado, Puerto Rico. (April, 2003)
29. Kassolis, J.D., and Reynolds, M.A. Evaluation of the Adjunctive Benefits of Platelet Rich Plasma in Subantral Sinus Augmentation. Presentation at the annual meeting of the Academy of Osseointegration, San Francisco, CA. (March, 2004)
30. Ruth, K.L., Softic, D., Reynolds, M.A., Aichelmann-Reidy, M.E., Woodward, K., Wolfinbarger, L. Alternate Preservation Method for Bone Allografts: Evaluation in a Rat Calvarial Defect Model. Paper presented at the Annual Meeting of the American Association of Tissue Banks, Boston, MA. (September, 2007)
31. Branch-Mays, G.L., Shiau, H., Phillips, B., Aichelmann-Reidy, M., and Reynolds, M.A. Comparison of a Conventional and Partial-Credit Multiple-Choice Case-Based Clinical Competency Examination in Periodontics. Annual Meeting of the American Dental Education Association, Washington, DC. (March, 2010)
32. Shiau, H.J., Aichelmann-Reidy, M., and Reynolds, M.A. Periodontal Treatment Planning: The Application of Computer-Based Simulation Strategies in Education. Annual Meeting of the American Dental Education Association, Orlando, FL. (March, 2012)
33. Sindler, A. and Reynolds, M.A. Mesenchymal Stem Cells in Osseous Reconstruction. Annual Meeting of the Academy of Microscope Enhanced Dentistry, San Diego, CA. (November, 2012)
34. Chrisopoulos, F.N., Negron, L., Stappert, C.F., & Reynolds, M. Evidence-based evaluation of success rates of endodontic versus implant therapy in compromised

- single tooth positions. Annual Meeting of the Academy of Osseointegration, Tampa, FL. (March, 2013)
35. Chrisopoulos, F. N., Geiman, R., Stappert, C. F., Stappert, D., and Reynolds, M. A. Implant Site Preparation Utilizing Corticotomy- Facilitated Orthodontics: A Case Presentation. Annual Meeting of the Academy of Osseointegration, Seattle, WA. (March, 2014)
  36. Dagdag A, Postolache TT, Wadhawan A, Daue ML, Reynolds MA Diverging Gender Differences in the Associations between Tooth Loss and Obesity vs. Depression in the Old Order Amish 3987th International Winter-Workshop Clinical, Chemical and Biochemical Aspects of Pteridines and Related Topics Innsbruck, Austria (February, 2018)

## **Licensure and Certifications**

Diplomate, American Board of Periodontology  
Maryland Dental License, Periodontics  
Maryland Controlled Dangerous Substance Registration  
Medical Staff, University of Maryland Medical Center (2001-present)

## **VI. SERVICE ACTIVITIES AND COMMITTEE ASSIGNMENTS**

### **State and Local**

1979	Program Committee, Maryland Psychological Association
1979-80	Graduate Committee, Department of Psychology, U.M.B.C.
1984-86	Committee on Undergraduate Dental Education, U.M.A.B., Dental School
1985-86	Student Clinical Advisory Board. U.M.A.B., Dental School Asepsis Control Committee. U.M.A.B., Dental School
1990-95	Program Committee. Harford-Cecil Dental Society
1991-94	Member. Council on Dental Practice. Maryland State Dental Association
1992-93	Secretary. Harford-Cecil Dental Society
1993-94	President-Elect. Harford-Cecil Dental Society
1994-95	President. Harford-Cecil Dental Society
1994-95	Chairman. Council on Dental Practice. Maryland State Dental Association
1995-96	Member. Council on Dental Health and Public Information. Maryland State Dental Association
1995-03	Delegate. Maryland State Dental Association
1993-03	Committee on Advanced Dental and Graduate Education (U.M.A.B., Dental School)
1996	Public Information Committee. Maryland State Dental Association
1996-00	Faculty Councilor (U.M. Dental School)
1996-03	Faculty Senator (U.M., B.)
1997-01	Faculty Advisor, AADR Student Research Group
1997-00	Committee on Research (U.M. Dental School)
1999-present	Institutional Animal Care and Use Committee (U.M. Dental School)
2000-01	Committee on Predoctoral Advancement and Graduation (U.M. Dental School)
2000-02	Infection and Biohazard Committee (U.M. Dental School)
2000-01	Continuing Education Committee (U.M. Dental School)
2000-05	Research Training Committee, Short-Term Research Training Program (U.M. Dental School)
2000-04	Grievance Committee (U.M. Dental School)
2000-02	Vice Chair, Faculty Council/Faculty Assembly (U.M. Dental School)
2001-present	Committee on Advanced Dental and Graduate Education (U.M. Dental School)
2001-02.1	Secretary, Faculty Senate (U.M., B.)
2000-06	Alternate, Institutional Review Board (U.M., B.)
2003-04	Chair, Committee on Advanced Dental and Graduate Education, (U.M., B.)

2003-04 Vice Chair, Omicron Kappa Upsilon, National Dental Honor Society (U.M. Dental School)

2003-05 Chair, Faculty Council/Faculty Assembly (U.M. Dental School)

2004-05 President-Elect, Omicron Kappa Upsilon (U.M. Dental School)

2005-06 President, Omicron Kappa Upsilon (U.M. Dental School)

2006-present Chair, Implant Committee (U.M. Dental School)

2006-2009 Chair, Clinical Sciences Council (U.M. Dental School)

2008-present Representative. University of Maryland Advisory Committee on Human Research Protections (U.M., B.)

2009-2016 Scientific Review Committee on Intellectual Property (U.M., B.)

2010-2013 Member, Appointment, Promotion, and Tenure Committee (U.M. Dental School)

2011-2013 Enterprise Risk Management Steering Committee (U.M., B.)

2011-2012 Organizing Committee, University of Maryland Summit on Childhood Obesity (U.M., B.)

2012-present Interdisciplinary Research Implementation Committee (U.M., B.)

2012-2013 Chair, Appointment, Promotion, and Tenure Committee (U.M. School of Dentistry)

2013-present Chair, University of Maryland Faculty Dental Service Plan Associates, P.A.

2018 Workgroup Member. University of Maryland, Capital Region Health Task Force on Primary Care

### **National/International**

1985 Participant. *A Research Agenda on Oral Health in the Elderly*. A collaborative research project of the National Institute on Aging, the National Institute of Dental Research, and the Veterans Administration

1996-14 Councilor, American Association for Dental Research (Baltimore Section)

2000 Dental Consultant. Division of Animal Resources. Eastern Virginia Medical School, Norfolk, VA.

2000 Special Study Section, (Bioengineering Research), Musculoskeletal and Dental Sciences Integrated Review Group, Center for Scientific Review, N.I.H. (March, July)

2001 Special Study Section (Bioengineering Research), Musculoskeletal and Dental Sciences Integrated Review Group, Center for Scientific Review, N.I.H. (March)

2001 Oral Biology and Medicine-2 Study Section Center for Scientific Review Special Emphasis Panel, N.I.H. (November)

2001 Committee F04 on Medical and Surgical Materials and Devices American Society for Testing and Materials

2001-05 Fellowships Committee. American Association for Dental Research

2002 Oral Biology and Medicine-2 Study Section. Center for Scientific Review, Special Emphasis Panel, N.I.H. (March, July, November)

2002 Reparative Medicine Study Section, Center for Scientific Review, Special Emphasis Panel, N.I.H. (March, July, November)

2002 Chair, Fellowships Committee. American Association for Dental Research

2003 Participant and Reviewer. American Academy of Periodontology Workshop on Contemporary Science in Clinical periodontics: Host Modulation, Anti-Infective Agents, and Tissue Engineering (Reynolds et al., Annals of Periodontology, 2003, 8: 227-265)

2003 Skeletal Biology Development and Disease Study Section. Center for Scientific Review, Special Emphasis Panel, N.I.H. (February, October)

2003 Reparative Medicine Study Section, Center for Scientific Review, Special Emphasis Panel, N.I.H. (February, July, November)

2003 Chair, Fellowships Committee. American Association for Dental Research

2003 Spokesperson for American Academy of Periodontology at Food and Drug Administration, Medical Devices Advisory Committee, Dental Products Panel. (May 22, 2003)

2004 Reparative Medicine Study Section, Center for Scientific Review, Special Emphasis Panel, N.I.H. (March, June)

2004 Skeletal Biology Development and Disease Study Section. Center for Scientific Review, Special Emphasis Panel, N.I.H. (June, November)

2003-08 Consultant. Naval Postgraduate Dental School, National Naval Medical Center (Periodontics).

2003-05 Pfizer/Edward H. Hatton Awards Committee, American Association for Dental Research

2005- Vice President, Omicron Kappa Upsilon Supreme Chapter

2005-2011 Consultant. Commission on Dental Accreditation (Periodontology).

2005 Musculoskeletal Tissue Engineering Study Section. Center for Scientific Review, Special Emphasis Panel, N.I.H. (March, July, November)

2005 Skeletal Biology Development and Disease Study Section. Center for Scientific Review, Special Emphasis Panel, N.I.H. (February, June, July, November)

2005-06 Spokesperson for American Academy of Periodontology at Department of Health and Human Services, Centers for Medicare & Medicaid Services, ICD-9-CM Coordination and Maintenance Committee (September 29, 2005; March 9, 2006).

2005 Reviewer. Michael Smith Foundation for Health Research, Vancouver, British Columbia, Canada

Member. Strategic Task Force to review the organizational structure of the American Association of Dental Research

2006 Musculoskeletal Tissue Engineering Study Section. Center for Scientific Review, Special Emphasis Panel, N.I.H. (March)

2006 Skeletal Biology Development and Disease Study Section. Center for Scientific Review, Special Emphasis Panel, N.I.H. (February, June, October)

2006 President-Elect, Omicron Kappa Upsilon Supreme Chapter



2006-2010 Regular Member. Skeletal Biology Development and Disease Study Section, Center for Scientific Review, N.I.H.

2007-2016 Examiner, American Board of Periodontology

2007 Member, Research Submissions Subcommittee, American Academy of Periodontology

2007 Judge, Balint Orban Memorial Competition. American Academy of Periodontology

2007 President, Omicron Kappa Upsilon, Supreme Chapter (National Dental Honor Society)

2008-12 Member, Research Submissions Committee, American Academy of Periodontology

2010 Panelist, National Science Foundation, Graduate Research Fellowship Program, Bioengineering 2 Panel. (February)

2010-12 Chair, Research Submissions Committee, American Academy of Periodontology

2010-16 Director, American Board of Periodontology

2010-11 Member, Oral Exam Committee, American Board of Periodontology

2010-11 Specialty Board Representative, American Board of Periodontology

2010 Co-Chair, Special Emphasis Panel, Musculoskeletal, Oral and Skin Sciences, Center for Scientific Review, NIH (November)

2011 Chair, Special Emphasis Panel, Musculoskeletal, Oral and Skin Sciences, Center for Scientific Review, NIH (June)

2011 Chair, Special Emphasis Panel, Inflammation, Osteoarthritis, and Rheumatoid Arthritis, Center for Scientific Review, NIH (December)

2011 Temporary Voting Member, Cellular, Tissue and Gene Therapies Advisory Committee, Food & Drug Administration. (11/17/11)

2012-13 Member, Public Relations Task Force. Academy of Osseointegration

2012 Special Emphasis Panel, Skeletal Biology Development and Disease Study Section, Center for Scientific Review, NIH (February)

2013 Special Emphasis Panel, NIDCR, ZRG1 MOSS, Center for Scientific Review, NIH (March)

Special Emphasis Panel, NIDCR, MH19 DSR, Center for Scientific Review, NIH (May)

2012-14 Consultant, Research Submissions Committee, American Academy of Periodontology

2013-14 Member, Oversight Committee on Peri-Implantitis Strategy, American Academy of Periodontology

2013-17 Voting Member, Medical Devices Advisory Committee, Dental Products Panel, Food & Drug Administration (11/05/13-10/31/17)

2014 Section Chair. American Academy of Periodontology Workshop on Enhancing Periodontal Health through Regenerative Approaches. (Kao, Nares, and Reynolds, Journal of Periodontology, in review)

2014-17 Member, New Researcher Development Subcommittee, American Dental Association Foundation

- 2014-15 Member, Research Submissions Committee, American Academy of Periodontology
- 2014-15 Chair, Oversight Committee on Peri-Implantitis Strategy, American Academy of Periodontology
- 2014-16 Member, Leadership Development and Qualifications Committee, American Academy of Periodontology
- 2015-present AAP Education Scholarship/Teaching Fellowship Selection Committee, Academy of Periodontology Foundation
- 2016-18 Chair, Volunteer Qualifications and Awards Committee, American Academy of Periodontology
- 2016 Co-Chairman and Director, American Board of Periodontology
- 2016-present Member. Board of Visitors, University of Maryland Baltimore County
- 2016-18 Journal of the American Dental Association Workgroup, American Academy of Periodontology
- 2017-19 Board of Directors, Academy of Microscope Enhanced Dentistry
- 2017-present Member. Mid-Atlantic Regional Health Equity Council (Region III), National Partnership for Action

**VII. HONORS**

- 1976 Membership. Psi Chi., The National Honor Society in Psychology
- 1984 Walter Nicolai Prize in Biomedical Gerontology, American Aging Association
- Special Service Award. National Institutes of Health, National Institute on Aging
- Scholarship for Young Investigators. Brookhaven National Laboratory, Associated Universities, Upton, New York
- Membership. Gamma Phi Delta Prosthodontic Honor Society
- Membership. Gorgas Odontological Honorary Society
- 1985 AADS Warner-Lambert Preventive Dentistry Scholarship Award
- American Association of Dental Schools through the Warner-Lambert Company
- Participant. American Dental Association/Dentsply Student Clinician Program
- 1986 Certificate of Merit (D.D.S., Magna Cum Laude), University of Maryland, Dental School
- Membership. Omicron Kappa Upsilon Honorary Dental Society
- Timothy O. Heatwole Chair, University of Maryland, Dental School

- Harry E. Latcham Medal, University of Maryland, Dental School
- Harry E. Kelsey Award for Professional Demeanor, University of Maryland, Dental School
- Maryland Society of Dentistry for Children Pediatric Dentistry Achievement Award, University of Maryland, Dental School
- American Academy of Gold Foil Operators Achievement Award, University of Maryland, Dental School
- Munksgaard International Publishers Award, University of Maryland, Dental School
- The Quintessence Award for Research Achievement, University of Maryland, Dental School
- Travel Grant, American Association for Dental Research
- Who's Who Among Students in American Universities and Colleges
- Marquis Who's Who Among Human Services Professionals
- 1993 The National Dean's List
- 1995 Postdoctoral Research Award. Maryland Section of the American College of Dentists
- 2001 Diplomate, American Board of Periodontology  
Young Investigator Fellowship. American Academy of Periodontology
- 2003 Fellow, American College of Dentists
- 2004 Fellow, International College of Dentists  
R. Earl Robinson Periodontal Regeneration Award, American Academy of Periodontology  
Marquis Who's Who in America
- 2007 President, Omicron Kappa Upsilon, Supreme Chapter
- 2009 List of Recommended Speakers, Regenerative/Tissue Engineering Therapies, American Academy of Periodontology
- 2010 Director, American Board of Periodontology (6-year term; Co-Chair, 2016)
- 2012 Diplomate, International Congress of Oral Implantologists  
23rd Annual Benjamin Tenenbaum Memorial Lecture, Columbia University
- 2013 Journalism Award (Special Citation). International College of Dentists  
22<sup>nd</sup> Annual Dr. Peter Fedi Periodontics Lecture, University of Missouri
- 2014 Fellowship, Pierre Fauchard Academy
- 2016 R. Earl Robinson Periodontal Regeneration Award, American Academy of Periodontology

2017 Dr. Leonard Abrams Distinguished Speaker Series Lecture, Temple University

2017 The Honor Society of Phi Kappa Phi

## VIII. PUBLICATIONS, PATENTS, AND OTHER CREATIVE EFFORTS

### A. Periodicals

1. Ingram, D.K., London, E.D., Reynolds, M.A., Waller, S.B., & Goodrick, C.L. Differential effects of aging on motor performance in two mouse strains. *Neurobiology of Aging*, 1981; **2**: 221-227.
2. Goodrick, C.L., Ingram, D.K., Reynolds, M.A., Freeman, J.R., & Cider, N.L. Effects of intermittent feeding upon growth and lifespan in rats. *Gerontology*, 1982; **28**, 233-241.
3. Ingram, D.K., Reynolds, M.A., & Goodrick, C.L. Relationship of sex, exercise, and growth rate to lifespan in the Wistar rat: A multivariate correlational approach. *Gerontology*, 1982; **28**: 23-31.
4. Ingram, D.K., Archer, J.R., Harrison, D.E., & Reynolds, M.A. Physiological and behavioral correlates of lifespan in aged C57BL/6J mice. *Experimental Gerontology*, 1982; **17**: 295-303.
5. Ingram, D.K., Reynolds, M.A., & Les, E.P. The relationship of genotype, sex, body weight, and growth parameters to lifespan in inbred and hybrid mice. *Mechanisms of Aging and Development*, 1982; **20**: 253-266.
6. Ingram, D.K., London, E.D., & Reynolds, M.A. Circadian rhythmicity and sleep: Effects of aging in laboratory animals. *Neurobiology of Aging*, 1982; **3**: 287-297.
7. Reynolds, M.A., Goodrick, C.L., & Ingram, D.K. Decreased resistance to extinction in *ob/ob* mice following operant training. *Physiology and Behavior*, 1982; **29**: 643-647.
8. Goodrick, C.L., Ingram, D.K., Reynolds, M.A., Freeman, J.R., & Cider, N.L. Differential effects of intermittent feeding and voluntary exercise on body weight and survival in adult rats. *Journal of Gerontology*, 1983; **38**: 36-45.
9. Ingram, D.K., & Reynolds, M.A. Effects of protein, dietary restriction, and exercise on survival in adult rats: A re-analysis of McCay, Maynard, Sperling, and Osgood (1941). *Experimental Aging Research*, 1983; **9**: 41-42.
10. Leiter, E.H., Coleman, D.L., Ingram, D.K., & Reynolds, M.A. Influence of dietary carbohydrate on the induction of diabetes pathogenesis in C57BL/KsJ-db/db diabetes mice. *Journal of Nutrition*, 1983; **113**: 184-195.
11. Siegman, A.W., & Reynolds, M.A. Self-monitoring and speech in feigned and unfeigned lying. *Journal of Personality and Social Psychology*, 1983; **45**: 1325-1333.
12. Siegman, A.W., & Reynolds, M.A. Effects of mutual invisibility and topical intimacy on verbal fluency in dyadic communication. *Journal of Psycholinguistic Research*, 1983; **12**: 443-455.
13. Siegman, A.W., & Reynolds, M.A. Speaking without seeing, or the effect of interviewer absence on interviewee disclosure time. *Journal of Psycholinguistic Research*, 1983; **12**: 595-602.
14. Goodrick, C.L., Ingram, D.K., Reynolds, M.A., Freeman, J.R., & Cider, N.L. Effects of intermittent feeding upon growth, activity, and lifespan in rats allowed voluntary exercise. *Experimental Aging Research*, 1983; **9**: 203-209

15. Ingram, D.K., London, E.D., Waller, S.B., & Reynolds, M.A. Age-dependent correlation of motor performance with neurotransmitter synthetic enzyme activities in mice. *Behavioral and Neural Biology*, 1983; **39**: 284-298.
16. Middaugh, L.D., Ingram, D.K., & Reynolds, M.A. Methodone effects on locomotor activity in young and aged mice. *Neurobiology of Aging*, 1983; **4**: 157-161.
17. Waller, S.B., Ingram, D.K., Reynolds, M.A., & London, E.D. Age and strain comparisons of neurotransmitter synthetic enzyme activities in the mouse. *Journal of Neurochemistry*, 1983; **41**: 1421-1428.
18. London, R., Valljos, J., Baer, D., Strummer, D., Reynolds, M., & Goldstein, P. Serum unconjugated estriol concentrations before and after oxytocin challenge test: An index of fetal well-being. *American Journal of Obstetrics and Gynecology*, 1983; **146**: 630-632.
19. Siegman, A.W., & Reynolds, M. The facilitating effects of interviewer rapport and the paralinguistics of intimate communications. *Journal of Social and Clinical Psychology*, 1984; **2**: 71-88.
20. London, R.S., Murphy, L., Reynolds, M.A., & Goldstein, P.T. Reliability of contact-thermogram services. *Journal of Reproductive Medicine*, 1984; **29**: 686-688.
21. London, R.S., Sundaram, G., Manimekalai, S., Murphy, L., Reynolds, M., & Goldstein, P. The effect of alpha-tocopherol on premenstrual symptomatology: A double-blind study. II. Endocrine correlates. *Journal of the American College of Nutrition*, 1984; **3**: 351-356.
22. Reynolds, M.A., & Ingram, D.K. Is thinner better? *International Journal of Obesity*, 1984; **8**: 285-287.
23. Reynolds, M.A., Ingram, D.K., & Cutler, R.G. Serum uric acid: Correlation with behavioral, metabolic, age, and lifespan parameters among inbred mice. *Age*, 1984; **7**: 93-99.
24. Bernstein, D., Olton, D.S., Ingram, D.K., Waller, S.B., Reynolds, M.A., & London, E.D. Radial maze performance in young and aged mice: Neurochemical correlates. *Pharmacology, Biochemistry, and Behavior*, 1985; **22**: 301-307.
25. Reynolds, M.A., Ingram, D.K., & Talan, M. Relationship of body temperature stability to mortality in aging mice. *Mechanisms of Ageing and Development*, 1985; **30**: 143-152.
26. London, R.S., Sundaram, G., Murphy, L., Manimekalai, S., Reynolds, M., & Goldstein, P.J. The effect of vitamin E on mammary dysplasia: A double blind study. *Obstetrics and Gynecology*, 1985; **65**: 104-106.
27. Lowy, A.M., Ingram, D.K., Olton, D.S., Waller, S.B., Reynolds, M.A., & London, E.D. Discrimination learning requiring different memory components in rats: Age and neurochemical comparisons. *Behavioral Neuroscience*, 1985; **99**: 638-651.
28. Ingram, D.K., & Reynolds, M.A. Assessing the predictive validity of psychomotor tests as measures of biological age in mice. *Experimental Aging Research*, 1986; **12**: 155-162.
29. Waller, S.B., Ball, M.J., Reynolds, M.A., & London, E.D. Muscarinic binding and choline acetyltransferase in postmortem brains of demented patients. *Canadian Journal of Neurological Sciences*, 1986; **13**: 528-532.
30. London, R.S., Murphy, L., Kitlowski, K.E., & Reynolds, M.A. The efficacy of alpha-tocopherol in the treatment of the premenstrual syndrome. *Journal of Reproductive Medicine*, 1987; **32**: 400-404.
31. Ingram, D.K., & Reynolds, M.A. The relationship of body weight to longevity within laboratory rodent species. *Basic Life Sciences*. 1987; **42**: 247-82.

32. Agarwal, S., Reynolds, M.A., Duckett, L.D., & Suzuki, J.B. Altered free cytosolic calcium changes in neutrophil chemotaxis in juvenile periodontitis. *Journal of Periodontal Research*, 1989; **24**: 149-154.
33. Reynolds, M.A., Minah, G.E., Peterson, D.E., Weikel, D.M., Williams, L.T., Overholser, C.D., DePaola, L.G., & Suzuki, J.B. Periodontal disease and oral microbial successions during myelosuppressive cancer chemotherapy. *Journal of Clinical Periodontology*, 1989; **16**: 185-189.
34. Goodrick, C.L., Ingram, D.K., Reynolds, M.A., Freeman, J.R., & Cider, N.L. Effects of intermittent feeding upon growth and lifespan in inbred mice: Interaction of genotype and age. *Mechanisms of Aging and Development*, 1990; **55**: 69-87.
35. Clemons, G.P., Reynolds, M.A., Agarwal, S., Boughman, J.A., & Suzuki, J.B. Current concepts in the diagnosis and classification of periodontitis. *Journal of the California Dental Association*, 1990; **16**: 33-38.
36. Peterson, D.E., Minah, G.E., Reynolds, M.A., Weikel, D.S., Overholser, C.D., DePaola, L.G., Wade, J.C., & Suzuki, J.B. Effect of granulocytopenia on oral microbial relationships in acute leukemia patients. *Oral Surgery, Oral Medicine, Oral Pathology*, 1990; **70**: 720-723.
37. Spangler, E.L. & Reynolds, M.A. Human pain research: Personality correlates of voluntarism among college women. *Personality and Individual Differences*, 1991; **12**: 497-500.
38. Agarwal, S., Reynolds, M.A., Pou, S., Peterson, D.E., Charon, J.A., & Suzuki, J.B. The effect of sanguinarine on human peripheral blood neutrophil viability and functions. 1991; *Oral Microbiology and Immunology*, **6**: 51-61.
39. Baer, M.L., Elias, S.A., & Reynolds, M.A. The use of psychological measures in predicting patient satisfaction with complete dentures. *International Journal of Prosthodontics*, 1992; **5**: 221-226.
40. Baer, M.L. & Reynolds, M.A. Comparison of anterior tooth width in natural and artificial dentitions. *Journal of Prosthodontics*, 1992; **1**: 84-87.
41. Reynolds, M.A. Lavigne, C.K., Minah, G.E., & Suzuki, J.B. Clinical effects of simultaneous ultrasonic scaling and subgingival irrigation with chlorhexidine. Mediating influence of periodontal probing depth. *Journal of Clinical Periodontology*, 1992; **19**: 595-600.
42. Reynolds, M.A., & Bowers, G.M. Periodontal regeneration following surgical treatment. *Current Opinion in Periodontology*, 1996; **3**: 126-139
43. Reynolds, M.A. & Bowers, G.M. Fate of demineralized freeze-dried bone allografts in human intrabony defects. *Journal of Periodontology*, 1996; **67**: 150-157.
44. Rosen, P.S., Marks, M.H., & Reynolds, M.A. Influence of smoking on long-term clinical results of intrabony defects treated with regenerative therapy. *Journal of Periodontology*, 1996; **67**: 1159-1163.
45. George, K.S., Reynolds, M.A., & Falkler, Jr., WA. Arbitrarily primed polymerase chain reaction (AP-PCR) fingerprinting of *Fusobacterium nucleatum* isolates from health and periodontal disease. *Oral Microbiology and Immunology*. 1997; **12**: 219-226.
46. Rosen, P.S., Reynolds, M.A., & Bowers, G.M. A technique report on the in situ use of Atrisorb as a barrier for combination therapy. *International Journal of Periodontics and Restorative Dentistry*, 1998; **18**: 249-255.

47. Sauk, J.J., Norris, K., Hebert, C., Ordóñez, J. & Reynolds, M. Hsp47 binds to the KDEL receptor and cell surface expression is modulated by cytoplasmic and endosomal pH. *Connective Tissue Research*, 1998; **37**: 105-119.
48. Rosen, P.S. & Reynolds, M.A. Polymer-assisted regenerative therapy: Case reports of 22 consecutively treated periodontal defects with a novel combined surgical approach. *Journal of Periodontology*, 1999; **70**: 554-561.
49. Hebert, C., Norris, K., Coletta, R.D., Reynolds, M., Ordóñez, J. & Sauk, J.J. Cell surface colligin/Hsp47 associates with tetrapanin protein CD9 in epidermal carcinoma cell lines. *Journal of Cellular Biochemistry*, 1999; **73**: 248-258.
50. Coletta, R.D., Almeida, O.P., Ferreira, L.R., Reynolds, M.A., & Sauk, J.J. Increase in expression of Hsp47 and collagen in hereditary gingival fibromatosis is modulated by stress and terminal procollagen N-propeptides. *Connective Tissue Research*, 1999; **40**: 237-249.
51. Coletta, R.D., Almeida, O.P., Reynolds, M.A., & Sauk, J.J. Alteration in expression of MMP-1 and MMP-2 but not TIMP-1 and TIMP-2 in hereditary gingival fibromatosis is mediated by TGF $\beta$ 1 autocrine stimulation. *Journal of Periodontal Research* 1999; **34**: 457-463.
52. Rosen, P.S., Reynolds, M.A., & Bowers, G.M. The treatment of intrabony defects with bone grafts. *Periodontology 2000*, 2000; **22**: 88-103.
53. Kassolis, J.D., Rosen, P.S. & Reynolds, M.A. Alveolar ridge augmentation utilizing platelet rich plasma in combination with freeze-dried bone allograft. *Journal of Periodontology*, 2000; **71**: 1654-1661.
54. Rosen, P.S. & Reynolds, M.A. Guided bone regeneration for dehiscence and fenestration defects on implants using an absorbable polymer barrier. *Journal of Periodontology*, 2001; **72**: 250-256.
55. Coletta, R.D., Reynolds, M.A., Martelli-Junior, H., Graner, E., Almeida, O.P., Sauk, J.J. Testosterone stimulates proliferation and inhibits interleukin-6 production of normal and hereditary gingival fibromatosis fibroblasts. *Oral Microbiology & Immunology*, 2002; **17**: 186-192.
56. Nikitakis N.G., Hebert C., Lopes M.A., Reynolds M.A., Sauk J.J. PPAR $\gamma$ -mediated antineoplastic effect of NSAID sulindac on human oral squamous carcinoma cells. *International Journal of Cancer*, 2002; **98**: 817-823
57. Lopes, M.A., Nikitakis, N.G., Reynolds, M.A., Ord, R.A., and Sauk, J.J. Biomarkers Predictive of Lymph Node Metastases in Oral Squamous Cell Carcinoma. *Journal of Oral and Maxillofacial Surgery*, 2002; **60**: 142-147
58. Rosen, P.S. & Reynolds, M.A. A retrospective case series comparing the use of demineralized freeze-dried bone allograft and freeze-dried bone allograft combined with enamel matrix derivative for the treatment of advanced osseous lesions. *Journal of Periodontology*, 2002; **73**: 942-949
59. Nikitakis N.G., Siavash H., Hebert C., Reynolds M.A., Hamburger A.W., Sauk J.J. 15-PGJ<sub>2</sub>, but not thiazolidinediones, inhibits cell growth, induces apoptosis, and causes downregulation of Stat3 in human oral SCCa cells. *British Journal of Cancer*, 2002; **87**: 1396-1403



60. Kassolis, J.D., Baer, M.L., & Reynolds, M.A. The segmental osteotomy in the correction of malposed implants: A case report and literature review. *Journal of Periodontology*, 2003; **74**: 529-536.
61. Nikitakis N.G., Rivera H., Lopes M.A., Siavash H., Reynolds M.A., Ord R.A., Sauk J.J. Immunohistochemical expression of angiogenesis-related markers in oral squamous cell carcinomas with multiple metastatic lymph nodes. *American Journal of Clinical Pathology*, 2003; **119**: 574-586.
62. Brooks, J.K., Hooper, K.A., Reynolds, M.A. Formation of mucogingival defects associated with intraoral and perioral piercing: Case reports. *Journal of the American Dental Association*, 2003; **134**: 837-843.
63. Bowers, G.M., Schallhorn, R.G., McClain, P.K., Morrison, G.M., Morgan, R., & Reynolds, M.A. Factors influencing the outcome of regenerative therapy in mandibular class II furcations. *Journal of Periodontology*, 2003; **74**:1255-1268.
64. Reynolds, M.A., Aichelmann-Reidy, M.E., Branch-Mays, G.L., and Gunsolley, J.C. The efficacy of bone grafts in the treatment of periodontal osseous defects. A systematic review. *Annals of Periodontology*, 2003; **8**:227-265.
65. Aichelmann-Reidy, M.E., Heath, C.D., & Reynolds, M.A. Clinical evaluation of calcium sulfate in combination with demineralized freeze-dried bone allograft for the treatment of intrabony defects. *Journal of Periodontology*, 2004; **75**: 340-347.
66. Sarlani, E., Grace, E.G., Reynolds, M.A., & Greenspan, J.D. Sex differences in temporal summation of pain and aftersensations following repetitive noxious mechanical stimulation. *Pain*, 2004; **109**: 115-23
67. Sarlani, E., Grace, E.G., Reynolds, M.A., & Greenspan, J.D. Evidence for up-regulated central nociceptive processing in patients with masticatory myofascial pain. *Journal of Orofacial Pain*, 2004; **18**: 41-55.
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70. Kassolis, J.D., & Reynolds, M.A. Evaluation of the adjunctive benefits of platelet rich plasma in subantral sinus augmentation. *Journal of Craniofacial Surgery*, 2005; **16**(2): 280-287.
71. LaPorta, V.N., Nikitakis, N.G., Sindler, A.J., & Reynolds, M.A. Minocycline-Associated Intraoral Soft Tissue Pigmentation: Clinicopathologic Correlations and Review of the Literature. *Journal of Clinical Periodontology*, 2005; **32**: 119-122.
72. Nan, A. Ghandehari, H., Hebert, C., Siavash, H., Nikitakis, N., Reynolds, M., & Sauk, J.J. Water-soluble polymers for targeted drug delivery to human squamous carcinoma of head and neck. *Journal of Drug Targeting*, 2005; **13**: 189-197.
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## **B. Special Journal Issues**

1. **Annual Report Series: Periodontal and Implant Treatment**, Editor, *Journal of Evidence Based Dental Practice*, June 2013.
2. **Modifiable Risk Factors in Periodontitis**, Editor, *Periodontology 2000, Volume 64, Issue 1*, 2014.
3. **Annual Report Series: Dental Hygiene**, Editor, *Journal of Evidence Based Dental Practice*, June 2014.

## **C. Book Chapters**

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### **C. Abstracts**

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### C. Instructional Media (Selected)

Reynolds, M.A. and Moutsopoulos, N.M. (2002) Management of Periodontal Disease in HIV-Infected Patients. In *Dental Management of the Patient with HIV/AIDS -- Current Concepts*. Pennsylvania/MidAtlantic AIDS Education and Training Centers.

Reynolds, M.A. and Aichelmann-Reidy, M.E. (2009) Periodontal Regeneration. *MetLife Quality Resource Guide*. New York: Metropolitan Life Insurance Co.

Reynolds, M.A. and Aichelmann-Reidy, M.E. (2013) Periodontal Regeneration. (2<sup>nd</sup> Edition) *MetLife Quality Resource Guide*. New York: Metropolitan Life Insurance Co.

Reynolds, M.A. and Aichelmann-Reidy, M.E. (2017) Periodontal Regeneration. (3<sup>rd</sup> Edition) *MetLife Quality Resource Guide*. New York: Metropolitan Life Insurance Co.

### D. Grants and Contracts

2017-18 Dexcel Pharma Technologies Ltd.  
The Efficacy and Safety of Chlorhexidine Gluconate Chip (PerioChip®) in Therapy of Peri-implantitis.

2013-14 OraPharma, Inc.  
Multi-Center Phase 3 Trial of Minocycline HCl 1mg Microspheres for the Use in Subjects with Peri-Implantitis: Clinical and Microbiological Evaluations

2013-14 OraPharma, Inc.  
Multi-Center Phase 3 Trial of Minocycline HCl 1mg Microspheres for the Use in Subjects with Peri-Implantitis

2011-14 Millennium Dental Technologies, Inc.  
A Multi-Center Single Blind Study of the Laser Assisted New Attachment Procedure Compared to Scaling and Root Planing Alone, Modified Widman Flap Surgery, or Coronal Debridement Alone in the Treatment of Chronic Periodontitis

2008-10 Biomet 3i, Inc.  
A Prospective, Randomized-Controlled Evaluation of Nanotite and Osseotite Surfaced Implant Performance in Graduate Student Programs

2009-10 American College of Rheumatology Research and Education Foundation  
PI: [REDACTED]  
Periodontal Disease as an Initiation or Propagation Factor for RA

2005-10 N.I.D.C.R., N.I.H., R01 PI: [REDACTED]  
Biodegradable Polymeric Prodrugs

2005-13 Zimmer Dental, Inc.  
The Clinical and Histological Evaluation of the Mono-cortical J Block® Allograft for the Management of Dento-alveolar Deficiencies

- 2002-07 N.I.D.C.R., N.I.H. PI: [REDACTED]  
Aging: Effects on Infection, Inflammation, and Disease
- 2002-07 N.I.D.C.R., N.I.H., PI: [REDACTED]  
ORWH: SCOR on Sex and Gender Factors Affecting Women's Health
- 2002-04 Implant Innovations, Inc.  
A Prospective, Randomized Controlled Study of Platelet Concentrates Added to Bone Grafts in the Maxillary Sinus Lift Cases-A Safety and Efficacy Evaluation
- 1999-01 Glaxo Welcome Inc. PI: [REDACTED]  
A Multicenter, Double Blind, Placebo-Controlled Evaluation of Valaciclovir for the Reduction of the Length of Cold Sore Episodes
- 1998-01 Merck & Company, Inc.  
A 24-Month, Double-Blind, Randomized, Placebo-Controlled Study to Determine the Effectiveness of MD-0217 in Reducing Alveolar Bone Loss in Men and Women with Moderate or Severe Periodontal Disease, in the Absence of Scaling and Root Planing.
- 1998-01 LifeCore Biomedical, Inc.  
Regeneration of Intrabony Defects using a Calcium Sulfate Barrier in Combination with Demineralized Freeze-dried Bone Allograft
- 1997-98 W.L. Gore and Associates, Inc.  
The Effect of Defect Morphology and Root Configuration on the Closure of Grade II Furcation Defects After Two Years: Microbiological Analysis
- 1994-96 W.L. Gore and Associates, Inc. PI: [REDACTED]  
The Effect of Defect Morphology and Root Configuration on the Closure of Grade II Furcation Defects after Two Years
- 1992-97 N.I.D.R., N.I.H. (K15 DE 00327)  
Role of Stress proteins in Periodontal Disease
- 1992-93 Service Contract, N.I.A., N.I.H.  
Caloric Restriction in Primates: Oral Fibroblast Cultures
- 1990-93 N.I.D.R., N.I.H. PI: [REDACTED]  
Family Studies of Early Onset Periodontitis
- 1988-90 Vipont Laboratories, Inc. PI: [REDACTED]  
Effect of Viadent on Oral Delivery of Neutrophils
- 1987-89 Dentsply International, Inc. PI: [REDACTED]  
Cavimed Therapy in Periodontitis Patients