

**NAME:** Kalu Ugwa Emmanuel Ogbureke

**PRESENT TITLE:** Professor and Chairman (**Tenured**)  
Department of Diagnostic and Biomedical Sciences

**OFFICE ADDRESS:** University of Texas Health Science Center at Houston  
School of Dentistry  
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Houston, TX 77054  
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[Kalu.Ogbureke@uth.tmc.edu](mailto:Kalu.Ogbureke@uth.tmc.edu)

**CITIZENSHIP:** United States of America

**UNDERGRADUATE EDUCATION:**

1980-86 University of Ibadan, School of Dentistry  
Ibadan, Nigeria  
*Bachelor of Dental Surgery (BDS)*

**GRADUATE EDUCATION:**

1991-93 University of Glasgow  
Glasgow, Scotland, U.K.  
*Master of Science (MSc, Med Sci.), Oral Pathology*

1996-01 Harvard University  
Cambridge, MA  
*Doctor of Medical Sciences (DMSc), Oral Biology*

1999-02 Suffolk University Law School  
Boston MA  
*Juris Doctoris (JD), Law*

2003-04 Johns Hopkins University  
Johns Hopkins University School of Medicine, and the Carey  
Business School, Baltimore, MD  
*Graduate Certificate in the Business of Medicine*

2011-12: McGill University  
Montreal Canada  
*Certificate of Training in Forensic Dentistry*

2014-2015 UTHealth Houston  
*Certificate, Health Educators Fellowship Program (HEFP)*

**POSTGRADUATE TRAINING:**

1986-91 Ahmadu-Bello University Teaching Hospital, Kaduna, Nigeria

University of Nigeria Teaching Hospital, Enugu, Nigeria  
 Glasgow Dental Hospital and School, Glasgow, Scotland  
*Oral and Maxillofacial Surgery*

1994-95 University of Texas at Houston  
 Dental Branch  
*Fellowship in Oral and Maxillofacial Surgery*

1996-01 Harvard University School of Dental Medicine  
 Boston MA  
*Clinical Specialty Certificate in Oral & Maxillofacial Pathology*

### **Leadership Training**

2013: Academy for Academic Leadership (AAL), *Chairs and Academic Administrators Management Program*

2015: Academy for Academic Leadership (AAL), *Chairs and Academic Administrators Management Program II*

2017: American Dental Education Association (ADEA)/Harry W, Bruce Jr. Legislative Fellowship

### **ADMINISTRATIVE APPOINTMENTS:**

2012- *Chair*, Department of Diagnostic and Biomedical Sciences University of Texas Health Science Center at Houston School of Dentistry

2011/12 *Interim Chair*, Department of Oral Biology, Georgia Health Sciences University, Augusta, Georgia

### **ACADEMIC APPOINTMENTS:**

#### **The University of Texas Health Science Center at Houston**

2012- Professor, Department of Diagnostic and Biomedical Sciences, School of Dentistry

2014- Professor, Department of Pathology and Lab Medicine, UT Medical School, Houston

2016- Professor with **Tenure**, Department of Diagnostic and Biomedical Sciences, School of Dentistry

#### **Georgia Health Sciences University, Augusta, GA**

2010- 02 Associate Professor (**tenured**), Department of Oral Biology, College of Dental Medicine, GHSU

2010- 02: Associate Professor (**tenured**), Department of Pathology, Medical College of Georgia, GHSU

- 2010- 02 Associate Professor (**tenured**), College of Graduate Studies, GHSU
- 2010- 02 Associate Professor (**tenured**), Department of Oral Health and Diagnostic Sciences, College of Dental Medicine, GHSU
- 2009- 10 Associate Professor (tenure track), Department of Oral Biology, College of Dental Medicine, GHSU
- 2009- 10 Associate Professor (tenure track), Department of Pathology, Medical College of Georgia, GHSU
- 2009- 10 Associate Professor (tenure track), College of Graduate Studies, GHSU
- 2009- 10 Associate Professor (tenure track), Department of Oral Health and Diagnostic Sciences, College of Dental Medicine, GHSU
- 2005- 09 Assistant Professor (tenure track), Georgia Health Sciences University (GHSU), College of Dental Medicine, Augusta, Georgia
- 2006- 09 Assistant Professor (tenure track), Department of Pathology, Medical College of Georgia, GHSU
- 2006- 09 Assistant Professor (tenure track), College of Graduate Studies, GHSU
- 2008- 09 Assistant Professor (tenure track), Department of Oral Health and Diagnostic Sciences, College of Dental Medicine, GHSU

**Visiting/Adjunct Academic Appointments**

- 1993/94 Visiting Assistant *Professor*, Oral Pathology, University of Texas at Houston, Dental Branch
- 2001- Visiting Lecturer, School of Dentistry, University of Ibadan, Ibadan, Nigeria, December 2000/January 2001
- 2008- Professor (Adjunct), Nebraska Institute of Forensic Sciences (NIFS)
- 2010/11 Fulbright Scholar/Visiting Professor, University of Lagos, Lagos, Nigeria
- 2013- Adjunct/Visiting Professor, College of Health Sciences, University of Port Harcourt, Port Harcourt, Nigeria

- 2013-15 Adjunct/Visiting Professor, Faculty of Medical Sciences, University of Jos, Jos, Nigeria
- 2013- Adjunct Professor, College of Dental Medicine, and College of Graduate Studies, Georgia Regents University, Augusta, Georgia
- 2014- Adjunct/Visiting Professor, Department of Forensic Sciences, Faculty of Pharmacy, Nnamdi Azikiwe University, Awka, Nigeria
- 2017/2018 Fulbright Distinguished Chair, University of Birmingham, Birmingham, U.K.

### **Other Appointments**

- 1986/87 House Surgeon in Oral & Maxillofacial Surgery, Ahmadu-Bello University Hospital, Kaduna, Nigeria
- 1987/88 Associate Dental Surgeon, Hebgreen Dental Clinic, Port Harcourt, Nigeria
- 1988/89 Dental Officer (National Youth Service Corp, Civilian), Nigerian Military Hospital, Port Harcourt, Nigeria
- 1989/91 Resident in Oral and Maxillofacial Surgery, University of Nigeria Teaching Hospital, Enugu/ Ahmadu-Bello University Hospital, Kaduna, Nigeria
- 1994/95 Clinical Research Fellow/Instructor, Department of Oral and Maxillofacial Surgery, University of Texas at Houston, Dental Branch, Houston, Texas
- 1995/96 Postdoctoral Associate, Department of Microbiology and Immunology (Immunology Section), Baylor College of Medicine, Houston, Texas
- 1996/02 Research Fellow in Oral Medicine/Postdoctoral Fellow, Harvard School of Dental Medicine/Department of Cytokine Biology, Forsyth Institute, Boston, Massachusetts
- 2002/05 Research Fellow, Matrix Biochemistry Unit, Craniofacial and Skeletal Disease Branch, National Institute of Dental and Craniofacial Research (NIDCR), National Institute of Health (NIH), Bethesda, MD.

### **LICENSURES:**

#### **Dental:**

- 2005 Georgia State Board of Dentistry, Faculty Dental License # DNF 000326

2012 Texas State Board of Dental Examiners, Faculty License #28579

**Law:**

2004 Commonwealth of the State of Massachusetts. Admission to Bar (Attorney and Counselor at Law; BBO # 659841)

2006 D.C. Court of Appeals. Admission to Bar (Attorney and Counselor at Law; Bar # 500472)

2006 State of Georgia. Admission to Bar (Attorney and Counselor at Law Bar # 280106)

2007 Admitted to Practice Law in the United States Supreme Court

**CERTIFICATIONS:**

2002 Royal College of Surgeons of England. Fellowship in Dental Surgery (FDSRCS)

2005 Fellowship of the American College of Legal Medicine (FCLM)

2006 American Board of Oral and Maxillofacial Pathology (ABOMP), *Board Certified and Diplomate* status

2010 Fellowship of the Royal College of Pathologists, United Kingdom (FRCPath)

2011 Royal College of Physicians and Surgeons of Glasgow, Fellowship in Dental Surgery (FDSRCPSG)

2011 American Board of Legal Medicine (ABLM), *Board Certified and Diplomate* American Board of Medical Malpractice (ABMM)

2014 Royal College of Surgeons of Edinburgh, Fellowship in Dental Surgery (FDSRCSEdin)

**PROFESSIONAL ORGANIZATIONS:**

1990- Associate Fellow, West African College of Surgeons (WACS)

1994- Member, International Association of Oral Pathologists (IAOP)

1998- Member, American Association for Dental Research (AADR)  
2008-Present: Member, Constitution Committee

1998- Member, International Association for Dental Research (IADR)  
2010-2014 Member, Constitution Committee

2002- Member, American Association for Cancer Research (AACR)

- 2002- Member, American Bar Association (ABA)
- 2004- Member, American Association for Matrix Biology (ASMB)
- 2005- Fellow, American College of Legal Medicine (FCLM)
- 2007- 2012: Member, Amicus Curiae Committee
  - 2007- Present: Member, Membership and Credentials Committee
  - 2007- Present: Member, Student Awards Committee
  - 2015- Present, Member, Nominating Committee
- 2005- Member, American Dental Association (ADA)
- 2005/12- Member, Georgia State Dental Association
- 2005/12- Eastern District of Georgia Dental Association
- 2006- Member, Georgia Bar Association
- 2006- Fellow, American Academy of Oral and Maxillofacial Pathology (AAOMP)
- 2006- Fellow, International Academy of Oral Oncology (IAOO)
- 2006- Member, North American Society for Head and Neck Pathology (NASHNP)
- 2006- Member, World Association for Medical Law (WAML)
- 2010- Fellow, Royal College of Pathologists (FRCPath) United Kingdom
- 2011- Fellow, Faculty of Dental Surgery, Royal College of Surgeons of England (FDSRCS)
- 2012- Member, Texas Dental Association (TDA)
- 2014- Fellow, Faculty of Dental Surgery, Royal College of Surgeons of Edinburgh (FDSRCSEd)

**HONORS AND AWARDS:**

- 1984 Gani-Fawehinmi Undergraduate Scholarship Award
- 1991/3 University of Nigeria Postgraduate Scholarship award: towards MSc degree at the University of Glasgow, Scotland

- 1996/99 National Research Science Award (NRSA; T32) NIDCR/NIH towards doctoral and clinical specialty training at Harvard University
- 1997 Harvard University: Honors in Oral Microbiology, and Oral Pathology
- 1999 Stephen and Wanda Jones Scholarship Award by the Committee on General Scholarship, Harvard University
- 1999/01 Underrepresented Minority Supplementary Grant to R01 from the NIH for completion of doctoral research at the Forsyth Institute/Harvard School of Dental Medicine, Boston, MA
- 2000 Honorable Mention: For Excellence in Legal Writing, Suffolk University Law School
- 2000 Deans List, Suffolk University Law School
- 2002/04 Research Fellowship Award (Intramural), NIDCR, NIH Bethesda, MD
- 2002/04 Clinical Research Fellowship Award, NIDCR: towards clinical research training
- 2002/05 *Recipient*, NIH Loan Repayment Program (LRP)
- 2003 American Association for Cancer Research (AACR): *Edward A. Smucker Fellow*: The Edward A. Smucker Memorial Workshop on the Pathobiology of Cancer. Keystone Resort, Colorado Springs, Colorado. June 2003
- 2005 Gordon Research Conference (GRC) Carl Storm Underrepresented Minority Fellowship award
- 2006-08 Recipient, HRSA Faculty Loan Repayment Program (FLRP)
- 2007 American Association for Dental Research (AADR) First Neal W. Chilton Fellowship in Clinical Research, \$6,500. Role: Principal Investigator
- 2007 Recipient: American Association for Dental Research (AADR) First, *Neal Chilton Fellowship in Clinical Research*.
- 2007 Recipient: Medical College of Georgia Research Institute (MCGRI) 2007 *Emerging Scientist Award* (To MCGRI researcher who are early in their research career and who are beginning to make outstanding contributions to research that provide insights into the mechanisms of disease prevention, detection, or therapy).

- 2008 Appointed: Member, Advisory Board, Nebraska Institute of Forensic sciences (NIFS)
- 2010 Awarded *Tenure*. Georgia Regents University
- 2010 *Grantee: Fulbright Scholar*. U.S. Department of States. Research award for studies on HPV16-associated oral cancers in a Nigerian population
- 2010 Augusta Magazine: Named in the *Top Augusta Area Dentists and Specialists*
- 2011 Co-Recipient (Co-investigator): The 2011 IADR/ Glaxo-Smith Kline (GSK) Award for Innovation in Oral Care Research. "A Natural Formulation for Patients Diagnosed with Xerostomia"
- 2011 Augusta Magazine: Named in the *Top Augusta Area Dentists and Specialists*
- 2012 *Outstanding Faculty (2012) Award*, Georgia Health Sciences University
- 2012 *Finalist*. American Dental Education Association (ADEA)/Sunstar Americas Inc/Harry Bruce, Jr. Legislative Fellowship
- 2014 Reader for the Washington Fellowship for Young African Leaders, International Research and Exchanges Board (IREX).
- 2013 Houston Magazine: Named in the *Top Houston Area Dentist and Specialists*
- 2014 Fellow, American College of Dentists (FACD)
- 2014 Houston Magazine: Named in the *Top Houston Area Dentist and Specialists*
- 2015 Member, Board of Governors, American College of Legal Medicine
- 2015 Recipient, 2015 University of Texas School of Dentistry at Houston *Dean's Excellence (Scholarship of Discovery) Award*
- 09/2016 Awarded, Royal College of Surgeons of Edinburgh (RCSEd; 2016), *King James IV Professorship (First of African Descent to win this award)*
- 03/2017 2017 American Dental Education Association (ADEA), *Harry Bruce Legislative Fellow*.

2018 *Fulbright Distinguished Chair* (U.S. Department of State), University of Birmingham, Birmingham, England, U.K.

2018 Awarded, *Certificate of Congressional Recognition*, United States House of Representative

#### **EDITORIAL POSITIONS:**

*Reviewer*

2005- *Journal of Molecular Histology*

2007- *Oral Diseases* (**Editorial Board member 2008-2013**)

2007- *Archives of Oral Biology*

2007- *Clinical Medicine: Oncology*

2008- *Journal of Oral Pathology*

2007- *Oral Oncology*

2008- *Connective Tissue Research*

2009- *Journal of the American Society of Nephrology*

2010- *PLoS ONE*

2012- *American Journal of Clinical Cancer Research* (**Senior Editorial Board Member**)

2013- *Oral Biology and Dentistry* (**Editorial Board Member**)

2014- *Journal of Medicine in the Tropics*

2015- *Journal of Dental Research*

2018- *Archives of Oral Biology*

2014- *Head and Neck Pathology*

#### **CONSULTANT APPOINTMENTS:**

2010-2011 Consultant, Regional Center for Oral Health Research and Training Initiatives (RCORTI) for Africa (World Health Organization Collaborating Center), Jos, Nigeria

2014- Appointed, Member, *Board Expert Review Panel*, Texas State Board of Dental Examiners

2014- Consultant/Site Visitor, Commission on Dental Accreditation (CODA), American Dental Association (ADA).

**SERVICE ON NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS, ADVISORY PANELS AND COMMITTEES:**

**Georgia Health Sciences University (GHSU), Augusta GA**

2005-12 Member, College of Dental Medicine, Research Advisory Committee

2008-12 Member, (**Ad Hoc Reviewer**) GHSU Intramural Grant (IGP) Committee

2008-12 Member, GHSU Advisory Panel on Conflicts of Interest

2008-12 Member, College of Dental Medicine, Student Financial Aid Committee

2009-12 Member, College of Dental Medicine, Faculty Senate Steering Committee

2009-12 Member, GHSU President's Work Group on Global Health Initiative

2009-12 Member (**Chairperson**), College of Dental Medicine Strategic Planning Committee

2010-12 Member, University Faculty Senate (UFS) Faculty Grievance Subcommittee

2010-12 Member, GHSU Internal Research Advisory Committee

2011-12 Member, College of Dental Medicine, Promotion and Tenure Committee

2012 Member, GHSU President's Ad Hoc Committee on Faculty Appeals

2013 Ad Hoc Grant Reviewer, University of Missouri Research Board

2018 Ad Hoc Grant Reviewer, The Wellcome Trust/DBT India Alliance

**University of Texas School of Dentistry at Houston**

2012- Member, Continuing Education (CE) Committee

2012- Member, Advanced Education Committee

2012- Member, Research Committee

2013- Member, Craniofacial Research Strategic Planning Committee,

2013: Member, Administrative Council

- 2013- Member, Chairs Committee
- 2013- Member, Committee on Committees
- 2013- Member (Ad hoc) Search Committee for Chair, Department of General Practice and Dental Public Health
- 2017/18 Member (Chair), Search Committee for Chair, Department of Restorative Dentistry and Prosthodontics

**COMMUNITY SERVICE:**

- 1996/01 Harvard School of Dental Medicine: Annual Community Oral Cancer Screening, Boston, MA
- 2005/12 Georgia Health Sciences University, Barnyard Flea Market Dental/Oral Health screening, Augusta GA
- 2013 Oral Cancer Foundation, Oral Cancer Walk and Screening Exercise
- 2014 Oral Cancer Foundation, Oral Cancer Walk and Screening Exercise

**FACULTY MENTORING**

- 2013- Dr. Dharini van der Hoeven, Assistant Professor, Department of Diagnostic and Biomedical Sciences
- 2014- Dr. Ngozi Nwizu, Assistant Professor, Department of Diagnostic and Biomedical Sciences

**SPONSORSHIP OF CANDIDATES FOR PRE AND POSTDOCTORAL DEGREES:****Postdoctoral Fellows:**

- 2006-07 Dr. Zhongmin Li (GHSU),
- 2008-09 Dr. Amany Tawfik (GHSU)
- 2009-11 Dr. Nneka Edeh (GHSU)
- 2012- Dr. Komal Koli (UT-SOD)
- 2014- Dr. Saxena Geetu (UT-SOD)
- 2015- Dr. Jaya Aseervatham (UT-SOD)

**Pre-doctoral Students Research Mentoring and Presentations at Meetings**

- 2008/09 Benjamin Treiber (GHSU; summer projects for sophomore at College of Charleston, Charleston, SC)

- 2010 S. PATEL, R. JOSHI, N. EDEH, A. SMITH, T. SAMPAT, V. MCCLOUD, S. LOONEY, J. LEWIS, S. HSU, and K.U. OGBUREKE, Medical College of Georgia, Augusta, GA. DSPP-silencing in oral cancer cells suppresses SIBLING-partnering MMPs and VEGF. IADR 2010; Paper #139904; 2010 AADR Bloc Travel Grant Recipient
- 2010 A. SMITH, R. JOSHI, V. MCCLOUD, N. EDEH, S. PATEL, T. SAMPAT, J. LEWIS, S. HSU, and K.U. OGBUREKE, Medical College of Georgia, Augusta, GA. Stable DSPP-silencing sensitizes oral cancer cells, OSC2, to cisplatin-induced apoptosis. IADR 2010; Paper #139822; 2010 AADR Bloc Travel Grant Recipient
- 2010 T. SAMPAT, R. JOSHI, N. EDEH, S. PATEL, A. SMITH, V. MCCLOUD, S. HSU, J. LEWIS, and K.U. OGBUREKE, Medical College of Georgia, Augusta, GA. Stable BSP-silencing has limited effect on oral cancer cell tumorigenicity. IADR 2010; Paper #139889; 2010 AADR Bloc Travel Grant Recipient
- 2013 K. TEMPLE, K. KOLI, K. OGBUREKE. The University of Texas School of Dentistry at Houston. Expression of the SIBLINGs and their Cognate MMPs in Oral Proliferative Verrucous Leukoplakia.
- 2014 B. AMAEFULE, K KOLI, S. GEETU, K. OGBUREKE. The University of Texas School of Dentistry at Houston, Research Day. Immunolocalization of MMP20 in oral cancer
- 2015 K. BARAHONA, G. SAXENA, K. OGBUREKE. The University of Texas School of Dentistry at Houston. Effects of MMP20/DSPP Silencing on Oral Squamous Cell Carcinoma Cancer Stem Cells.

**MEMBERSHIP ON THESIS AND SUPERVISORY COMMITTEES:**

**Georgia Health Sciences University (GHSU), Augusta, GA**

1. Dr. Kevin Gillespie (Graduated July 2008)
2. Dr. Jamie Hughes (Graduated May 2009)
3. Dr. Yat Ho Ma (Graduated December 2011)
4. Dr. Christopher Bingham (**Major Thesis Advisor; M.S. December 2011**)
5. Cristina Thomas
6. Dr. Komal Koli (**Major Thesis Co-Advisor; M.S. awarded November 2012**)

7. Inas Helwa (**PhD Awarded September 2014**)

**TEACHING RESPONSIBILITIES**

DENF 2705 Pathobiology (Course Director)  
 DENS 3702 Oral Disease (Contributor)  
 DBPG 1612 Graduate Oral Pathology (Course Director)  
 DBPG 1116 Advanced Basic Science II (Course Director)  
 DHCT 2206 General Oral Pathology (Contributor)  
 DHCT 3206 General Oral Pathology (Contributor)

**GRANT SUPPORT:**

**Research Grants Awarded**

**1. SIBLING family of Proteins in Oral Cancer**

Funding Agency: NIDCR/NIH (**K23DE017791; No-Cost Extension**)  
 Duration: 03/01/2012-02/28/2013  
 Start Date: 03/01/2012  
 Amount Requested: \$21,000 (**No-Cost Extension to K23DE017791**)  
 Role: PI  
 Status: **Completed**

**2. E6/E7 oncoprotein-dentin sialophosphoprotein (DSPP) interactions in oral cancer**

Funding Agency: MCGRI Pilot Study Research Project (PSRP)  
 Duration: 12/01/2010-11/30/2011  
 Anticipated Start Date: 12/01/2010  
 Amount Requested: \$50,000  
 Role: PI  
 Status: **Completed**

**3. Role of HPV-induced BSP in oral carcinogenesis**

Funding Agency: Medical College of Georgia Research Inc. (MCGRI; **STP00105W005**)  
 Duration: 06/01/2006-05/31/2009  
 Start Date: 06/01/2006  
 Amount Requested (Awarded): \$375,000;  
 Role: PI  
 Status: **Completed**

**4. SIBLING family of Proteins in Oral Cancer Transition**

Funding Agency: NIDCR/NIH (**K23DE017791**)  
 Duration: 03/01/2007-02/29/2012  
 Start Date: 03/01/2007  
 Amount Requested/Awarded: \$675,000  
 Role: PI.  
 Status: **Completed**

**4. SIBLING Family of Proteins in Oral Cancer**

Funding Agency: Wendy Will Case Cancer Fund, Inc  
 Duration: 07/01/2007-06/30/2008  
 Start Date: 07/01/2007  
 Amount Requested/Awarded: \$30,000  
 Role: PI  
 Status: **Completed.**

**5. Serum and Saliva Levels of MMP20/DSPP in Oral Cancer**

Funding Agency: Fulbright US-UK Commision  
 Duration: 04/29/2018-10/15/2018  
 Start Date: 04/29/2018-10/15/2018  
 Amount: \$35,000  
 Role: PI  
 Status: **Completed**

**Research Grants Not Funded****1. SIBLING family of proteins in oral cancer transition**

Funding Agency: NIH AARA Administrative Supplement  
 Duration: 10/01/09-09/30/11  
 Anticipated Start Date: 10/01/09  
 Amount Requested: \$50,000  
 Role: PI  
 Status: **Not funded**

Administrative supplement to parent grant K23 K23 DE017791 under the American Recovery and reinvestment Act (AARA) to enable the hiring and retention of laboratory technical personnel.

**2. Green tea polyphenols: a novel approach to modulating Sjogren's Syndrome-like symptoms**

Funding Agency: NIH (R01)  
 Duration: 10/01/09-09/30/11  
 Anticipated Start Date: 10/01/09  
 Amount Requested: \$697,800  
 Role: Co-Investigator (PI: Stephen Hsu)  
 Status: **Not Funded**

The goal of this proposed study is investigate the correlation of EGCG oral application and destruction of salivary tissues by SS and determine the molecular pathway and mechanism activated by EGCG to suppress autoantigen expression, apoptosis and inflammation.

**3. Elucidation of the mechanisms underlying the beneficial anti-apoptotic and anti-oxidant effects of EGCG using an animal model for Sjogren's syndrome**

Funding Agency: US DOD Investigator-Initiated Research Award  
 Duration: 10/01/09-09/30/12

Anticipated Start date: 10/01/09  
 Amount Requested: \$1,102,500  
 Role: Co-Investigator (PI Stephen Hsu)  
 Status: **Not Funded**

The major goals of this project are to determine if oral administration of EGCG protects the salivary gland by normalizing proliferation signals and increasing antioxidant activities, and to determine the molecular pathways and mechanisms activated by EGCG leading to these changes.

#### **4. DSPP and BSP interaction with HPV-16 oncoproteins in oral cancers**

Funding Agency: NIDCR/NIH (**R03**)  
 Duration: 09/01/2011-08/31/2013  
 Anticipated Start Date: 09/01/2011  
 Amount Requested: \$150,000  
 Role: PI  
 Status: **Not Funded**

#### **5. MMP20-Dentin Sialophosphoprotein Interaction in Oral Cancer**

Funding Agency: NIDCR/NIH (**R15DE025967-01**)  
 Duration: 04/01/2016-03/31/2019  
 Anticipated Start Date: 04/01/2016  
 Amount Requested: \$300,000 (Direct Cost)  
 Role: PI  
 Status: **Not Funded**

#### **6. Mechanisms of Matrix Metalloproteinase 20-Dentin Sialophosphoprotein Interaction in Oral Cancer**

Funding Agency: NIDCR/NIH (**R03DE025904-01**)  
 Duration: 04/01/2016-03/31/2018  
 Anticipated Start Date: 04/01/2016  
 Amount Requested: \$100,000 (Direct Cost)  
 Role: PI  
 Status: **Not Funded**

#### **7. Mechanisms of Matrix Metalloproteinase 20-Dentin Sialophosphoprotein Interaction in Oral Cancer**

Funding Agency: Cancer Prevention and Research Institute of Texas (CPRIT; **RP160647**)  
 Duration: 09/01/2015-09/01/2017  
 Anticipated Start Date: 01/01/2016  
 Amount Requested: \$900,000  
 Role: PI  
 Status: **Not Funded**

**PRESENTATIONS:****Invited presentations at Other Universities/Professional Meetings, Conferences and Workshops**

- 1996 **Ogbureke** KUE: Suspicious lesions of the oral cavity (including the oral manifestations of HIV/AIDS). Charles George Dental Society, Houston, Texas, March, 1996.
- 2002 **Ogbureke** KUE (Invited Discussant), "NOMA in Nigeria", National Public Radio/ BBC, "The World Today" program hosted by Lisa Mullin, June 2002.
- 2004 **Ogbureke** KUE: Expression of the SIBLINGs and Their Partner MMPs in the KIDNEY. Laboratory of Kidney and Electrolyte Metabolism, National Heart Lung and Blood Institute (NHLB), NIH, Bethesda, MD.
- 2004 **Ogbureke** KUE: SIBLING Protein expression in Soft Tissues. Craniofacial developmental Biology and Regeneration Branch (CDBRB), NIH, Bethesda, MD.
- 2005 **Ogbureke** KUE: Invited Speaker, Noma: A Preventable Scourge of African Children. Operation Smile Symposium, CUSmile, Columbia University, New York, NY.
- 2005 **Ogbureke** KUE: *SIBLING and MMP Co-Localization in Soft Tissues*. Gordon Research Conference on Small Integrin-Binding Proteins, Big-Sky, Montana. September 2005.
- 2006 **Ogbureke** KUE: *Oral Pathology-An Overview for the General Dentist*. The 14<sup>th</sup> Annual James E. Carter II Midwinter Meeting of the Georgia Dental Society, Callaway Gardens, Pine Mountain, GA. October 2006.
- 2007 **Ogbureke** KUE: *Oral Pathology for the General Dentist*. "Last Chance Dental CE Course", Medical College of Georgia, Augusta, GA, December 2007.
- 2007 **Ogbureke** KUE: *Concepts and Controversies in the Diagnosis of Oral Premalignant Lesions*. 21st Annual Postgraduate Pathology Symposium, Head and Neck Pathology. Augusta GA. May 2007.
- 2007 **Ogbureke** KUE, Waller J, Fisher LW: *SIBLING expression in oral premalignant lesions predicts transition to oral-cancer*. 85<sup>th</sup> General Session of the International Association for Dental research (IADR), New Orleans. March 21-24, 2007.

- 2007 **Ogbureke KUE:** *Telepathology and the law in the era of HIPAA*. 47<sup>th</sup> Annual Conference of the American College of Legal Medicine (ACLM), Orlando, FL. March 2007.
- 2007 **Ogbureke KUE:** *Alterations of SIBLING Expression in Oral Premalignant Lesions*. Gordon Research Conference on *Small Integrin-Binding Proteins*, Biddeford, ME. August, 2007.
- 2007 **Ogbureke KUE:** *SIBLINGs and Cancer*. The Kidney Institute Symposium, Kansas University Medical Center. Phosphates, SIBLING Proteins, FGF23, Klotho, PTH and Vitamin D: A new System Biology in Chronic Kidney Disease, Kansas City, Kansas, October 18-19, 2007.
- 2007 **Ogbureke KUE (Chilton Fellow):** *SIBLINGs in Oral Cancer Transition*. Task Force on Design and Analysis in Oral Health Research, Newark NJ. November 12-13, 2007.
- 2008 **Ogbureke KUE:** *Failure to Diagnose Oral Cancer and other Oral Diseases*. 48<sup>th</sup> Annual Conference of the American College of Legal Medicine (ACLM), Houston, TX. February 28-March 2, 2008.
- 2010 **Ogbureke KUE:** *Ethical Considerations in preemptive wisdom tooth removal*. 50<sup>th</sup> Annual Conference of the American College of Legal Medicine, Orlando, Fl., March 4-7 2010
- 2010 **Ogbureke, KUE:** *The SIBLING family of Proteins in Oral cancer*. Department of Pathology, Anatomical Sciences and Cell Biology, Thomas Jefferson Medical College, Thomas Jefferson University, Philadelphia. March 31, 2010.
- 2010 **Ogbureke, KUE:** *The SIBLING family of Proteins in Oral cancer*. Institute of Oral Health Research, University of Alabama at Birmingham, School of Dentistry. May 26, 2010.
- 2010 **Ogbureke, KUE:** *Human Papilloma Virus (PHV) and Head and Neck Cancers*. Annual Conference of the Lagos University Medical Society (LUMS). Lagos University Teaching Hospital, Lagos, Nigeria. December 1, 2010.
- 2011 **Ogbureke, KUE:** *Beyond the tooth, the whole tooth, and nothing but the tooth: the dentists' role in forensic investigation*. Workshop on Forensic Odontology organized by the Regional Centre for Oral Health Research and Training Initiatives (RCORTI; World Health Organization Collaborating Center, Jos, Nigeria) for Africa. The Sheraton Hotels, Abuja, Nigeria. March 2-4, 2011

- 2011 **Ogbureke** KUE: *Concepts and Controversies in the Diagnosis of Oral Premalignant Lesions*. College Symposium, Faculty of Dentistry, College of Medicine, University of Ibadan, Ibadan, Nigeria. July 8, 2011.
- 2012 **Ogbureke** KUE: The SIBLING family of Proteins in Oral Cancer. College Seminar, University of Texas Health Science Center at Houston, School of Dentistry (UTH-SOD). April 26, 2012.
- 2013 **Ogbureke** KUE: The SIBLING family of Proteins in Oral Cancer. The University of Texas, M.D. Anderson Cancer Center, Department of Head and Neck Surgery. September, 2013.
- 2013 **Ogbureke** KUE: Update on Odontogenic Cysts. Residents Seminar, Department of Pathology, The University of Texas at Houston Medical School, October 2013.
- 2013 **Ogbureke** KUE: Update on Odontogenic Tumors. Residents Seminar, Department of Pathology, The University of Texas at Houston Medical School, December 2013.
- 2014 **Ogbureke** KUE: "Interdisciplinary Dentistry in the 21<sup>st</sup> Century." Keynote Speaker, First Dentistry Day, University of Port Harcourt, Port Harcourt, Nigeria. January 2014.
- 2015 **Ogbureke** KUE: "The Future of Forensic Dentistry in Nigeria." Keynote Speaker, 2<sup>nd</sup> Annual Dentistry Day, University of Port Harcourt, Port Harcourt, Nigeria, January 2015.
- 2016 **Ogbureke** KUE: "Interdisciplinary Approach to Forensic Sciences: Challenges for Developing Economies." Keynote Speaker, 3<sup>rd</sup> Annual Dentistry Day, University of Port Harcourt, Port Harcourt, Nigeria, January
2016. **Ogbureke** KUE. *SIBLING family of Proteins-MMP Interaction in Oral Cancer*. Annual Scientific Meeting of the British Society for Oral and Maxillofacial Pathology (BSOMP). 2016 King James IV Professorship Lecture, Royal College of Surgeons of Edinburgh. Edinburgh, Scotland, April 22, 2016.
2017. **Ogbureke** KUE. Forensic Dentistry: Centerpiece for interdisciplinary Approach to Forensic crime, Mass disaster, and other investigations. 2017 Forensic Conference, Nnamdi Azikiwe University, Awka, Nigeria, May 2017.
2018. **Ogbureke** KUE. Forensic Dentistry: historical aspects, scope, and modern forensic dental analysis. 2018 Saudi International Dental Conference, Riyadh, Kingdom of Saudi Arabia, January 9-11, 2018.

2018. **Ogbureke** KUE. Dental Malpractice: Common and subtle legal pitfalls. 2018 Saudi International Dental Conference, Riyadh, Kingdom of Saudi Arabia, January 9-11, 2018.
2018. **Ogbureke** KUE. Legal Challenges in Presenting Forensic Dental Evidence. In: Forensic Symposium and Oral Pathology Course, Keesler Air Force base, Biloxi, MS, February 16—22, 2018.
2018. **Ogbureke** KUE. Small Integrin Binding Ligand N-linked Glycoprotein-Matrix Metalloproteinase Interaction in Oral Cancer: A Precision Oncology Perspective. University of Birmingham, Birmingham, England, September 5, 2018.
2019. **Ogbureke** KUE: *Update on Failure to Diagnose Oral Cancer and other Oral Diseases*. 59<sup>th</sup> Annual Conference of the American College of Legal Medicine (ACLM), Los Angeles, CA. February 23, 2019.

#### **Continuing Education (CE) Courses Given**

1. **Ogbureke** KUE: *Oral Pathology for the General Dentist*. “Last Chance Dental CE Course”, Medical College of Georgia, Augusta, GA, December 2007.
2. **Ogbureke** KUE: *Concepts and Controversies in the Diagnosis of Oral Premalignant Lesions*. 21st Annual Postgraduate Pathology Symposium, Head and Neck Pathology. Augusta GA. May 2007.
3. **Ogbureke** KUE: *SIBLING and MMP Co-Localization in Soft Tissues*. Gordon Research Conference on Small Integrin-Binding Proteins, Big-Sky, Montana. September 2005.
4. **Ogbureke** KUE: *Oral Pathology-An Overview for the General Dentist*. The 14<sup>th</sup> Annual James E. Carter II Midwinter Meeting of the Georgia Dental Society, Callaway Gardens, Pine Mountain, GA. October 2006.
5. **Ogbureke** KUE, Waller J, Fisher LW: *SIBLING expression in oral premalignant lesions predicts transition to oral-cancer*. 85<sup>th</sup> General Session of the International Association for Dental research (IADR), New Orleans. March 21-24, 2007.
6. **Ogbureke** KUE: *Telepathology and the law in the era of HIPAA*. 47<sup>th</sup> Annual Conference of the American College of Legal Medicine (ACLM), Orlando, FL. March 2007.
7. **Ogbureke** KUE: *SIBLINGs and Cancer*. The Kidney Institute Symposium, Kansas University Medical Center. Phosphates, SIBLING Proteins, FGF23, Klotho, PTH and Vitamin D: A new System Biology in Chronic Kidney Disease, Kansas City, Kansas, October 18-19, 2007.

8. **Ogbureke KUE** (Member of Panel of Discussants): *Coordinating Federal, State and local Mass disaster Response Policy & the Legal, Constitutional and Jurisdictional Issues involved*. 4<sup>th</sup> Annual Forensic Science Symposium, Forensic Investigation and Management of Mass Disasters. University of Nebraska, Lincoln, NE. October 31-November 2, 2007.
9. **Ogbureke KUE** (*Chilton Fellow*): *SIBLINGS in Oral Cancer Transition*. Task Force on Design and Analysis in Oral Health Research, Newark NJ. November 12-13, 2007.
10. **Ogbureke KUE**: *Failure to Diagnose Oral Cancer and other Oral Diseases*. 48<sup>th</sup> Annual Conference of the American College of Legal Medicine (ACLM), Houston, TX. February 28-March 2, 2008.
11. **Ogbureke KUE**: *Ethical considerations in preemptive wisdom tooth extraction*. 50<sup>th</sup> Annual Conference of the American College of Legal Medicine (ACLM), Orlando FL. March 4-7, 2010.
12. **Ogbureke KUE**: *Failure to Diagnose Oral Cancer and other Oral Diseases*. 48<sup>th</sup> Annual Conference of the American College of Legal Medicine (ACLM), Las Vegas, NV. February, 2013.
13. **Ogbureke KUE**: *Concepts and Controversies in the Diagnosis of Oral Premalignant Lesions*. Dental Society of Southeast Texas, Beaumont, TX. April, 2013.
14. **Ogbureke KUE**, Vigneswaran N: *Concepts and Controversies in the Diagnosis of Oral Premalignant Lesions*. Greater Houston Dental Society (GHDS) Tale and Ale, September 2013.
15. **Ogbureke KUE**. *The "Sunshine" Act" Relevance to Dental Practice and Research*. 54<sup>th</sup> Annual Meeting of the American College of Legal Medicine (ACLM), Las Vegas, NV. February 2015.
16. **Ogbureke KUE**. *Failure to Diagnose Oral Cancer and other Oral Diseases*. 55<sup>th</sup> Annual Conference of the American College of Legal Medicine (ACLM), Austin, TX. February, 2016.
17. Ogbureke EI, Johnson CD, Holland N, **Ogbureke KUE**. "Cultural Consideration in Health Care practice". American Dental Education Association (ADEA) Chair of Board of Director's symposium, ADEA Annual Session, Denver, CO, March 2016.

18. **Ogbureke KUE:** *Ethical considerations in preemptive wisdom tooth extraction.* 50<sup>th</sup> Annual Conference of the American College of Legal Medicine (ACLM), Orlando FL. February 22-26, 2017.
19. **Ogbureke KUE.** Epigenetic Mechanisms in Human Oral Squamous Cell Carcinoma: An Overview. Symposium, 95<sup>th</sup> General Session of the International Association for Dental Research (IADR)/46<sup>th</sup> Annual Meeting of the American Association for Dental Research (AADR), San Francisco, CA, March 2017.
20. **Ogbureke KUE.** Small Integrin Binding Ligand N-Linked Glycoprotein-Matrix Metalloproteinase Interaction in Oral Cancer: A *Precision Oncology Perspective.* 96<sup>th</sup> General Session of the International Association for Dental Research (IADR)/47<sup>th</sup> Annual Meeting of the American Association for Dental Research (AADR), London, U.K. July 2018.
21. **Ogbureke KUE.** Small Integrin Binding Ligand N-Linked Glycoprotein-Matrix Metalloproteinase Interaction in Oral Cancer: Institute of Head and Neck Studies and Education, University of Birmingham, Birmingham, U.K. September 2018.

#### **Service as Panelist or Discussant at Professional Meetings**

- 2007 Session Chair, 85<sup>th</sup> General Session of the International Association for Dental research (IADR), New Orleans. March 21-24, 2007.
- 2007 Panelist/Discussant, *Coordinating Federal, State and local Mass disaster Response Policy & the Legal, Constitutional and Jurisdictional Issues involved.* 4<sup>th</sup> Annual Forensic Science Symposium, Forensic Investigation and Management of Mass Disasters. University of Nebraska, Lincoln, NE. October 31-November 2, 2007.
- 2011 Session Chair (Poster), 89<sup>th</sup> General Session of the International Association for Dental Research (IADR), San Diego, CA, March 2011.
- 2017 Symposium Chair, 95<sup>th</sup> General Session of the International Association for Dental Research (IADR)/46<sup>th</sup> Annual Meeting of the American Association for Dental Research (AADR), San Francisco, CA, March 2017.

#### **Other Presentations: Professional Exhibits and Audiovisual Programs**

- 2002 Discussant, "NOMA in Nigeria", National Public Radio/ BBC, "The World Today" program (**AUDIO available**) hosted by Lisa Mullin, June 2002
- 2010 Profiled by the *Augusta Chronicle* in a full-length article titled: "Professor Stays Too Busy to Count his Degrees." Available online at: <http://chronicle.augusta.com/news/metro/2010-02-21/professor-stays-too-busy-count-his-degrees>

- 2010 Quoted in an *Augusta Chronicle* article discussing research report on “Coffee and tea intake and risk of head and neck cancer: pooled analysis in the international head and neck cancer epidemiology consortium.” The article by Galeone et al. (2010) discusses the effects of coffee consumption on the risk of developing head and neck cancers, including oral cancers. Available online at: <http://chronicle.augusta.com/news/health/2010-06-21/coffee-could-greatly-cut-cancer-risk-research-says?v=1277170906>
- 2011 Research highlighted in the *Augusta Chronicles* in a full-length article: “GHSU wants to increase research, federal funding.” Available also online at: <http://chronicle.augusta.com/news/education/2011-11-09/ghsu-wants-increase-research-federal-funding>

### **Meetings**

- 1994 International Association of Oral Pathologists, York, England, July 1994
- 1995 Southwestern Society Meeting of Oral and Maxillofacial Surgeons, Colorado Springs, Colorado, March 1995
- 2000 International Association for Dental Research (IADR), Washington DC, March 2000
- 2001 American Association for Dental research (AADR), Chicago, March 2001
- 2003 International Association for Dental Research (IADR), Gothenburg, Sweden, June 2003
- 2004 International Association of Oral Pathologists (IAOP), Madrid, Spain, September 2004
- 2005 International Association for Dental Research (IADR), Baltimore, MD, March 2005
- 2006 American College of Legal Medicine (ACLM), 46<sup>th</sup> Annual Conference, Las Vegas, NV, March 2006
- 2007 American College of Legal Medicine (ACLM), 47<sup>th</sup> Annual Conference, Las Vegas, NV, March 2007
- 2007 International Association for Dental Research (IADR), New Orleans, LA. March 2007
- 2007 Summer Institute in Clinical Dental Research Methods, University of Washington, Seattle, WA., July 1-August 10, 2007

- 2008 48<sup>th</sup> Annual Conference of the American College of Legal Medicine, Houston, TX., February 29-March 2, 2008
- 2008 37<sup>th</sup> Annual Meeting of the AADR, Dallas, TX. April 2-4, 2008
- 2009 38<sup>th</sup> Annual Meeting of the AADR/IADR, Miami, FL. April 2009.
- 2010 50<sup>th</sup> Annual Conference of the American College of Legal Medicine, Orlando, FL., March 4-7, 2010
- 2011 85<sup>th</sup> General Session of the International Association for Dental Research. San Diego, CA, March 2011
- 2012 52<sup>nd</sup> Annual Conference of the American College of Legal Medicine, New Orleans, LA, February 2012
- 2012 2012 ADEA Annual session and Exhibition, Orlando, FL. March 2012
- 2012 86<sup>th</sup> General Session of the American Association for Dental Research. Tampa, FL, March 2012
- 2013 53<sup>rd</sup> Annual Conference of the American College of Legal Medicine, Las Vegas, NV, February 2013
- 2013 2013 ADEA Annual session and Exhibition, Seattle, WA, March 2013
- 2013 87<sup>th</sup> General Session of the International Association for Dental Research/American Association for Dental Research. Seattle, WA March 2013
- 2013 Annual Conference of the British Society for Oral and Maxillofacial Pathology (BSOMP), Newcastle Upon Tyne, England, May 2013
- 2013 Annual Conference of the American Academy of Oral and Maxillofacial Pathology (AAOMP). Portland, OR, June 2013
- 2014 Biannual Conference of the International Association of Oral Pathologists (IAOP). Istanbul, Turkey, May/June 2014
- 2015 55<sup>th</sup> Annual Conference of the American College of Legal Medicine, Las Vegas, NV, February 2015
- 2015 89<sup>th</sup> General Session of the International Association for Dental Research/American Association for Dental Research. Boston, MA, March 2015

- 2016 56<sup>th</sup> Annual Conference of the American College of Legal Medicine, Austin, TX, February 2016
- 2016 2016 ADEA Annual session and Exhibition, Denver, CO, March 2016
- 2016 45<sup>th</sup> Annual Meeting of the American Association for Dental Research (AADR). Los Angeles CA, March 2016
- 2016 Annual Conference of the British Society for Oral and Maxillofacial Pathology (BSOMP), Edinburgh, Scotland, April 2016
- 2016 Annual Conference of the American Academy of Oral and Maxillofacial Pathology (AAOMP). Cincinnati, OH, May 2016
- 2017 57<sup>th</sup> Annual Conference of the American College of Legal Medicine, Las Vegas, NV, February 2017
- 2017 ADEA Annual session and Exhibition, Long Beach, CA, March 2017
- 2017 Annual Conference of the International Association for Dental Research (IADR)/American Association for Dental Research (AADR), San Francisco, CA, March 2017
- 2018 96<sup>th</sup> General Session of the International Association for Dental Research (IADR)/47<sup>th</sup> Annual Meeting of the American Association for Dental Research (AADR), London, U.K. July 2018.
2019. 59<sup>th</sup> Annual Conference of the American College of Legal Medicine (ACLM), Los Angeles, CA. February 23, 2019.

**Abstracts (\* Indicates published)**

1. **\*Ogbureke** KUE, McDaniel RK, Jacobs R and Durban EM. Immunodetection of transforming growth factor alpha (TGF- $\alpha$ ) in non-neoplastic human salivary glands. International Association of Oral Pathologists, York, England. *J Oral Pathol Med* (Abstract), July 1994
2. **Ogbureke** KUE, Cruz C, Johnson JV and Helfrick JF. Perioperative angioedema of the tongue complicating ACE-inhibitor therapy. Southwestern Society Meeting of Oral and Maxillofacial Surgeons, Colorado Springs, Colorado, March 1995
3. **\*Ogbureke K**, Chen W, Isoda R, Deng W and Li Y-P. Cloning and characterization of a novel transcription factor, OBTF2 that promotes osteoblastic cell proliferation and inhibits osteocalcin expression. International Association for Dental Research (IADR), Washington DC. *J Dent Res* (Abstract), March 2000

4. \***Ogbureke K** and Li Y-P. Misexpression of smad2 in developing chick embryo results in reduced skeletal and asymmetric body development. American Association for Dental Research (AADR), Chicago. *J Dent Res* (Abstract), March 2001
5. \*Paster BJ, **Ogbureke KU**, Russell MK, Stokes LN, Mitchell PM, Dewhirst FE. Bacterial diversity in early NOMA and ANUG of malnourished children. International Association for Dental Research (IADR), San Diego, CA. *J Dent Res* (Abstract), 2002
6. \***Ogbureke KUE** and Fisher LW. Dentin sialophosphoprotein and osteopontin are expressed in salivary glands. International Association for Dental Research (IADR), Goteborg, Sweden. *J Dent Res* (Abstract) June 2003.
7. \***Ogbureke KU**, Fisher LW. SIBLING expression in salivary glands. NIH Research Festival, September 2003.
8. \*Fisher LW, Karadag A, **Ogbureke KUE**, Fedarko N. SIBLING activation of specific MMPs: an alternative mechanism of local matrix turnover? American Society for Matrix Biology (ASMB), San Diego, CA, October 2004.
9. \***Ogbureke KUE**, Fisher LW. Upregulation of three SIBLINGs and two MMPs in oral cancer. International Association for Dental Research, Baltimore MD. *J Dent Res* (Abstract), March 2005.
10. \*Hsu S, Dickinson DP, Qin JL, Borke K, **Ogbureke K**, Sharawy M, Camba A, Podolsky R, Schuster GS. Protective role of green tea in Sjogren's syndrome animal models. American Association for Dental Research, Orlando FL. *J Dent Res* (Abstract), March 2006.
11. \***Ogbureke KUE**, Waller J, Fisher LW. SIBLING expression in oral premalignant lesions predicts transition to oral-cancer. 85<sup>th</sup> General Session of the International Association for Dental Research (IADR), New Orleans. *J Dent Res* (Abstract) March, 2007.
12. \*Patel A, Lewis J, Wataha J, Messer RL, **Ogbureke K**, McCloud V, Qin H, Rainwater B, Hsu S. Blue light suppresses tumor growth and induces apoptosis. 37<sup>th</sup> Annual Meeting of the American Association for Dental Research (AADR), Dallas, TX. *J Dent Res* (Abstract), April 2008.
13. \*Camba A, Lin Y, Gillespie K, Kodani I, Dickinson D, Wu M, Merkley M, Dynan W, Lee J, **Ogbureke K**, Looney S, Schuster GS, Hsu S. Proteomics analysis of salivary gland acinar cells from ECGC-treated NOD mice. 37<sup>th</sup> Annual Meeting of the American Association for Dental Research (AADR), Dallas, TX. *J Dent Res* (Abstract) April 2008.

**14.\*Ogbureke** KUE, Qin H, Liu Z, Tawfik A, Hsu S. Tumorigenicity of Human Oral-cancer cell-line, OSC2, is suppressed by DSPP-knockdown. 38<sup>th</sup> Annual Meeting of the American Association for Dental Research (AADR/IADR), Miami, FL, April 2009.

**15.\*Patel** A, Lewis J, Wataha J, Messer R, **Ogbureke** K, McCloud V, Lockwood P, Hsu S. Blue light treatment activates stress signaling pathway in tumor cells. 38<sup>th</sup> Annual Meeting of the American Association for Dental Research (AADR/IADR), Miami, FL, April 2009.

**16.\*Tawfik** A, Edeh N, Hsu S, Dickinson D, **Ogbureke** KU. DSPP upregulation in oral squamous cell carcinoma suppresses caspase-14 expression (IADR), Barcelona, Spain, July 2010.

**17.\*Sampat** T, Joshi R, Edeh N, Patel S, Smith A, McCloud V, Hsu S, Lewis J, **Ogbureke** K.U. Stable BSP-silencing has limited effect on oral cancer cell tumorigenicity (IADR), Barcelona, Spain, July 2010.

**18.\*Patel** S, Joshi R, Edeh N, Smith A, Sampat T, McCloud V, Looney S, Lewis J, Hsu S, **Ogbureke** K.U. DSPP-silencing in oral cancer cells suppresses SIBLING-partnering MMPs and VEGF (IADR), Barcelona, Spain, July 2010.

**19.\*Smith** A, Joshi R, Edeh N, Patel S, Sampat T, McCloud V, Lewis J, Hsu S, **Ogbureke** K.U. Stable DSPP-silencing sensitizes oral cancer cells, OSC2, to cisplatin-induced apoptosis (IADR), Barcelona, Spain, July 2010.

**20.** Downer A, Patel D, Messer R, Wataha J, **Ogbureke** K, McCloud V, Lockwood P, Hsu S, Lewis J. SCC-25 Cellular Responses to Blue Light : A Comparative Study. J Dent Res Abstract, AADR, March 2010

**21.** DeRossi S, **Ogbureke** K, Dickinson D, Ma YH, Paquin B, Kragor C, Hansford J, Looney S, and Hsu S. Green tea polyphenols: A novel approach against Sjogren's syndrome-induced xerostomia. IADR meeting, 2010, Barcelona, Spain. (Oral presentation)

**22.** Hughes J, Teng Y, Free A, Dickinson D, El-Awady A, **Ogbureke** K, Bisch F, and Hsu S. The Effects of Epigallocatechin-3-gallate on Gene Expression in NOD Mice. AADR annual meeting, March, 2010

**23.** C Kragor, B Paquin, J Hansford, D Dickinson, **K Ogbureke**, and S Hsu. EGCG normalizes antioxidant capacity in tissues affected by autoimmune diseases. AADR meeting, March, Washington DC, 2010.

**24.** B Paquin, C Kragor, S DeRossi, **K Ogbureke**, D Dickinson, YH Ma, J Hansford, and S Hsu. Altered glandular antioxidant capacity and proliferation in Sjogren's syndrome patients. AADR meeting, March, 2010

- 25.\*Youngs N, Hahn E, Yu H, Ohno S, Dickinson D, **Ogbureke** KU.E, DeRossi S.S, Hsu S. Possible relationship between PCNA and p21 in salivary gland dysfunction (IADR), San Diego, CA, March 2011.
- 26.\*Waters B, Varn J, Messer R, Wataha J.C, **Ogbureke** K, McCloud V, Lockwood P, Hsu S, Lewis J. The Effects of Blue Light on Keratinocyte Cytoprotection (IADR), San Diego, CA, March 2011.
- 27.\* Hanhn E, Youngs N, Yu H, Dickinson D, **Ogbureke** KUE, DeRossi SS, Hsu S. EGCG induces salivary gland antioxidant enzyme expression via MAPK pathways (IADR), San Diego, CA, March 2011.
- 28.Varn J, Waters B, Messer R, **Ogbureke** K, McCloud V, Lockwood P, Hsu S, Lewis J, Wataha JC. The Effects of Blue Light on Keratinocyte Cytoprotection. IADR Abstract, March 2011.
- 29.Waters B, Varn J, Messer R, Wataha JC, **Ogbureke** K, McCloud V, Lockwood P, Hsu S, Lewis J. HT-29 Cellular Responses to Blue Light: A Comparative Study. IADR Abstract, March 2011.
- 30.\* Ma YH, DeRossi SS, Ogbureke KUE, Dickinson D, Bisch F, Yu H, Hsu S. Immunohistochemical evaluation of labial salivary glands in xerostomic patients (IADR), San Diego, CA, March 2011.
- 31.\* Ogbureke K, Weinberger P, Looney SW, Fisher LW. DSPP, OPN, and MMP-9 expression at surgical-margins predict OSCC recurrence (IADR), San Diego, CA, March 2011.
- 32.\* Ohno S, Yu H, Dickinson D, **Ogbureke** K, DeRossi S, and Hsu S. Green tea polyphenol modulates oxidative stress-related protein expressions in a primary Sjogren's syndrome mouse model prior to disease onset. The 8<sup>th</sup> International Congress on Autoimmunity, Granada, Spain. May, 2012.
- 33.\* Ohno S, Yu H, Dickinson D, **Ogbureke** K, DeRossi S, and Hsu S. EGCG normalizes early biomarker in a primary Sjogren's syndrome model. Annual meeting of International Association for Dental Research, Iguazo Falls, Brazil. June 2012
- 34.Bingham C, Dickinson D, Cray J, **Ogbureke** KUE\*. Expression of p8 in human oral squamous cell carcinoma. Annual meeting of the American Academy of Oral and Maxillofacial Pathology, Portland, OR. June 14-19, 2013.
- 35.Temple K, Koli K, **Ogbureke** KU\*. SIBLINGs,MMPs,  $\alpha$ V $\beta$ 6 are Expressed in Oral Proliferative Verrucous Leukoplakia. Annual Meeting of the International Association for Dental Research/American Association for Dental Research, Boston, MA., March 2015

**36.** Koli K, Ajayi O, Odukoya OA, **Ogbureke** KU\*. HPV16-Associated Oral Cancers at the Lagos University Teaching Hospital, Nigeria. Annual Meeting of the International Association for Dental Research/American Association for Dental Research, Boston, MA., March 2015.

**37.** Ogbureke EI, Neumann A, Garcia D, Conn R, Johnson CD, **Ogbureke** KUE. "Developing a Curriculum emphasizing Oral medical examination for improvement of patient care in a diverse population." International Cancer Education Conference, Tucson Arizona, 2015.

**38.** Saxena G, Koli K, **Ogbureke** KUE\*. MMP20 Silencing Inhibits Key Tumorigenic Hallmarks of Oral Cancer. 45<sup>th</sup> Annual Session of the American Association for Dental Research (AADR). Los Angeles, CA, March, 2016.

**39.** Nikitakis N, Barahona K, **Ogbureke** KUE. DSPP-MMP20 gene-silencing downregulates cancer stem cells in human oral cancer cells. Annual meeting of the European Association of Oral Medicine (EAOM). Turin, Italy, September 2016.

**40.** Wu E, Lee C-T, Rao N, Angelov N, **Ogbureke** K. Dentin Sialophosphoprotein and Matrix Metalloproteinase-20 Are Present in Gingival Crevicular-Fluid. 46<sup>th</sup> Annual Session of the American Association for Dental Research, Fort Lauderdale, FL, March 2018.

**41.** Nikitakis N, Gkouveris I, Aseervatham J, **Ogbureke** KU. Interferon gamma (IFN $\gamma$ ) antitumor effects on oral cancer cells are accompanied by ER stress response modulation and DSPP activity suppression. International Association of Oral Pathologist (IAOP), Vancouver, Canada, June 2018,

**42.** **Ogbureke** KU. SIBLINGs-MMP interactions in precision oral oncology. In: Precision Oral Oncology: Head and Neck Cancer Perspective (Symposium). Annual Meeting of the International Association for Dental Research/American Association for Dental Research (IADR), London, U.K. July 2018.

#### **PUBLICATIONS IN REFEREED JOURNALS**

**1.** **Ogbureke** KUE, McDaniel RK, Jacobs R and Durban EM. Immunodetection of transforming growth factor alpha (TGF- $\alpha$ ) in non-neoplastic human salivary glands. *Histol Histopathol* 10: 691-696, 1995.

**2.** Rudolf RF and **Ogbureke** KUE. Oral myiasis: report of case and review of management modalities. *Oral Maxillofac Surg* 54: 219-220, 1996.

**3.** **Ogbureke** KUE, Cruz C, Johnson JV and Helfrick JF. Perioperative angioedema of the tongue complicating ACE-inhibitor therapy: a case report. *J Oral Maxillofac Surg* 54: 917-920, 1996.

4. Karadag A, **Ogbureke** KUE, Fedarko NS, Fisher LW. Bone sialoprotein bridges MMP-2 to the cell surface increasing metastatic properties of osteotropic cancer cells in vitro. *J Natl Cancer Inst* 96: 956-965, 2004.
5. **Ogbureke** KUE, Fisher LW. Expression of the SIBLINGs and their partner MMPs in salivary glands. *J Dent Res* 83: 664-670, 2004.
6. **Ogbureke** KUE, Fisher LW. Renal expression of SIBLING proteins and their matrix metalloproteinases (MMPs). *Kidney Int* 68: 155-66, 2005.
7. **Ogbureke** KUE, Zhao Q, Li Y-P. Human osteopetroses and the osteoclast V-H<sup>+</sup>-ATPase acidification system. *Front Biosci* 10: 2940-2954, 2005.
8. **Ogbureke** KUE, Nikitakis NG, Warburton G, Ord R, Sauk JJ, Waller JL, Fisher LW. Upregulation of SIBLING proteins and correlation with cognate MMP expression in oral cancer. *Oral Oncol* 43: 920-932, 2007.
9. **Ogbureke** KUE, Fisher LW. SIBLING expression patterns in ductal epithelia reflect the degree of metabolic activity. *J Histochem Cytochem* 55: 403-409, 2007.
10. **Ogbureke** KUE, Nashed MN, Ayoub AF. Huge peripheral osteoma of the mandible: a case report and review of literature. *Pathol Res Pract* 203: 185-188, 2007.
11. Hsu S, Dickinson DP, Qin H, Borke J, **Ogbureke** KUE, Winger JN, Camba A, Bollag WB, Stoppler HJ, Sharawy MM, Schuster GS. Green tea polyphenols reduces autoimmune symptoms in a murine model for human Sjogren's syndrome and protect human salivary acinar cells from TNF- $\alpha$ -induced cytotoxicity via p38 MAPK activation. *Autoimmunity* 40: 137-148, 2007.
12. Bellahcene A, Castronovo V, **Ogbureke** KUE, Fisher LW, Fedarko NS. Small Integrin-Binding Ligand N-linked Glycoprotein (SIBLINGs): Multifunctional tools for cancer development and metastasis. *Nat Rev Cancer* 8: 212-216, 2008.
13. Gillespie K, Kodani I, Dickinson DP, **Ogbureke** KUE, Camba AM, Wu M, Looney S, Chu T-C, Qin H, Bisch F, Sharawy M, Schuster GS, and Hsu SD. Effects of oral consumption of the green tea polyphenol EGCG in a murine model for human Sjogren's syndrome, an autoimmune disease. *Life Sciences* 83: 581-588 (2008).
14. Wu M, Kodani I, Dickinson D, Huff F, **Ogbureke** KUE, Qin H, Arun S, Dulebohn R, Al-Shabrawey M, Tawfik A, Prater S, Lewis J, Wataha J, Messer R, Hsu S. Exogenous expression of capase-14 induces tumor suppression in human salivary cancer cells by inhibiting tumor vascularization. *Anticancer Res* 29: 3811-3818 (2009).

15. **Ogbureke** KUE, Abdelsayed RA, Li L, Kushner H, Fisher LW. Two members of the SIBLING family of proteins, DSPP and BSP, may predict the transition of oral epithelial dysplasia to oral squamous cell carcinoma. *Cancer* 116:1709-1717 (2010).
16. Joshi R, Liu Z, Tawfik A, Edeh N, McCloud V, Looney S, Lewis J, Hsu S, **Ogbureke** KUE. Dentin sialophosphoprotein (DSPP) gene-silencing inhibits key tumorigenic activities in human oral cancer cell line, OSC2. *PLoS ONE* 5(11): e13974. doi:10.1371/journal.pone.0013974 (2010).
17. Ogbureke E.I. **Ogbureke** KUE. Noma: A preventable “scourge” of African children. *The Open Dentistry Journal* 4: 201-206 (2010).
18. Dickinson D, DeRossi S, **Ogbureke** KU, Hsu S. New targets for alternative therapeutic approaches in autoimmune-induced glandular hypofunction. *J Altern Med Res* 3(2):00-00 (2011)
19. **Ogbureke** KUE, Weinberger PM, Looney SW, Fisher LW. DSPP, OPN, and MMP-9 expression at histologically-negative resection margins predict Oral squamous cell carcinoma recurrence. *Oncotarget* 3: 286-298 (2012).
20. Ohno S, Yu H, Dickinson D, Chu TC, **Ogbureke** K, DeRossi S, Yamamoto T, and Hsu S. Epigallocatechin-3-gallate modulates oxidative stress in exocrine glands of a primary Sjogren’s syndrome mouse model prior to disease onset. *Autoimmunity* 45:540-6 (2012).
21. **Ogbureke**, KUE, Bachoura A. Oral and Maxillofacial Pathology: Case of the Month. Multiple Odontogenic Keratocysts in Association with Nevroid Basal Cell Carcinoma Syndrome. *Texas Dent J* 130: 1110-1111, 1142-1143 (2013).
22. Adibi S, Ogbureke EI, Minavi BB, **Ogbureke** KU. Why use oral splints of temporomandibular disorders (TMD)? *Texas Dent J* 131: 450-455 (2014).
23. DeRossi S, Thoppay J, Dickinson D, Looney S, Stuart M, **Ogbureke** K, Hsu S. A Phase II clinical trial of natural formulation containing tea catechins for xerostomia. *Oral Surg Oral Med Oral Pathol Oral Radiol* 118: 447-454 (2014).
24. Binghman C, Dickinson D, Cray J, Koli K, **Ogbureke** KUE. Expression of p8 in human oral squamous cell carcinoma. *Head Neck Pathol* 9: 214-222 (2015).
25. Patel AD, Rotenberg S, Messer RLW, Wataha JC, **Ogbureke** KUE, McCloud V, Lockwood P, Hsu S, Lewis JB. Blue Light activates phase 2 response proteins and slows growth of A431 epidermoid carcinoma xenografts. *Anticancer Res* (2014) 34: 6305-13.

26. Ogbureke EI, Vigneswaran N, Seals M, Frey G, Johnson CD, **Ogbureke KU**. A peripheral giant cell granuloma with extensive osseous metaplasia or a hybrid peripheral giant cell granuloma-peripheral ossifying fibroma: a case report. *J Med Case Rep* (2015) 9:14.
27. Adibi SS, Ogbureke EI, Minavi BB, **Ogbureke KU**. Why use oral splints for temporomandibular disorders (TMDs)? *J Mich Dent Assoc* (2014) 96: 42-5.
28. Ogbureke KUE, Oral and Maxillofacial Pathology: Case of the Month. Adenomatoid Odontogenic Tumor. *Texas Dent J* (2015) 132: 14, 15, 68, 69.
29. Saxena G, Koli K, de la Garza J, **Ogbureke KUE**. Matrix Metalloproteinase 20–Dentin Sialophosphoprotein Interaction in Oral Cancer. *J Dent Res* (2015) 94: 584-93
30. Koli K, Saxena G, **Ogbureke KUE**. Expression of Matrix Metalloproteinases (MMP)-20 and Co-Localization with Dentin Sialophosphoprotein (DSPP) in Human Major Salivary Glands. *J Histochem Cytochem* (2015) 63: 524-533.
31. **Ogbureke KUE**, Salha W, Nwizu N. Oral and Maxillofacial Pathology: Case of the Month. Peripheral Giant Cell Granuloma. *Texas Dent J* (2016) 133: 178, 179, 209.
32. Anunobi CC, Koli K, Saxena G, Banko, AA, **Ogbureke KUE**. Expression of the SIBLINGs and their MMP partners in human benign and malignant prostate neoplasms. *Oncotarget* (2016) 2016 Jun 16. doi: 10.18632/oncotarget.10110.
33. **Ogbureke KUE**, Koli K, Saxena G. Matrix metalloproteinase20 co-expression with dentin sialophosphoprotein in human and monkey kidneys. *J Histochem Cytochem* (2016) 64: 623-636
34. Gkouveris I, Nikitakis N, Aseervatham, J, Rao N, **Ogbureke, KUE**. Matrix metalloproteinases in head and neck cancer: current perspectives. *Metalloproteinases in Medicine* (2017) 4:1-5
35. Nwizu NN, Owosho A, **Ogbureke KUE**. Emerging Paradigm of Virtual Microscopy for Histopathology Diagnosis: Survey of U.S. and Canadian Oral Pathology Trainees. *BDJOpen* (2017) 3, 17013; doi:10.1038/bdjopen.2017.13.
36. **Ogbureke KUE**, Clark AN, Nwizu NN, McGehee J. Oral and maxillofacial pathology: Case of the month. *Tex Dent J*. 2017 Apr;134(4):226-8, 232-4, 252-3.
37. Nikitakis NG, Gkouveris I, Aseervatham J, Barahona K, **Ogbureke KUE**. DSPP-MMP20 gene silencing downregulates cancer stem cell markers in human oral cancer cells. *Cell Mol Biol Lett* (2018) 23:30 doi: 10.1186/s11658-018-0096-y. eCollection 2018.

38. Gkouveris I, Nikitakis NG, Aseervatham J, **Ogbureke** KUE. The tumorigenic role of DSPP and its potential regulation of unfolded protein response and ER stress in oral cancer cells. *Int J Oncol* (2018) 53:1743-1751
39. Gkouveris I, Nikitakis NG, Aseervatham J, **Ogbureke** KUE. Interferon gamma (IFN $\gamma$ ) suppresses dentin sialophosphoprotein in oral squamous cell carcinoma cells resulting in antitumor effect via modulation of ER-response. *Int J Oncol* (2018) 53: 2423-2432.
40. **Ogbureke** KUE, Aseervathan J, Saxena G, Koli K. Survey of dentin sialophosphoprotein and its cognate matrix metalloproteinase-20 in human cancers. *Cancer Med* (2018; in Review)
41. Brooks JM, Menezes AN, Ibrahim M, Archer L, Lal N, Bagnall CJ, von Zeidler SV, Valentine H, Spruce R, Batis N, Bryant JL, Hartley M, Kaul B, Ryan G, Bao R, Khattri A, Lee SP, **Ogbureke**, KUE, Middleton G, Tennant D, Beggs A1, Deeks J, West C, Cazier JB, Willcox B, Seiwert TY, Mehanna HM. Development and Validation of a Combined Hypoxia and Immune Prognostic Classifier for Head and Neck Cancer. *Clin Cancer Res* (2018; in Review)

#### **Books, Chapters, and Monographs**

1. Fisher LW, Karadag A, **Ogbureke** KUE, Fedarko NS. The SIBLING family of proteins; Activators of MMPs: In: Proceedings of the 8<sup>th</sup> International Conference on the Chemistry and Biology of Mineralized Tissues (ICCBMT). Sodek J, Landis WJ (eds). University of Toronto Press (Toronto, Ontario, Canada) pp 129-131. November, 2004.
2. Dickinson DP, **Ogbureke** KU, DeRossi S, Hsu S. New Targets and Approaches to Autoimmune-Induced Salivary Hypofunction. Nova Science Publishers, Inc. Hauppauge, NY. October, 2010.
3. Dickinson D, **Ogbureke** KU, DeRossi C, and Hsu S. New targets and approaches to autoimmune-induced salivary hypofunction. *Autoimmune Disorders: Symptoms, Diagnosis and Treatment*. Nova Publishers 2011.
4. **Ogbureke** KUE (Editor): *Oral Cancer*. InTech Publishers (ISBN 979-953-307-610-1; 2012) with Chapter contribution.
5. **Ogbureke** KUE, Ogbureke EI. History of Salivary Proteomics. In: *Salivary Proteomics* (Ed. Streckfus CF). Heidelberg: Springer Press; 2015, pp17-32.

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2005-2012: *Georgia Health Sciences University (GHSU)*.

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