

# 2005 – 2020 ACP Education Foundation

## Research Fellowships

*Sponsored by the ACP Education Foundation and an unrestricted educational grant from GlaxoSmithKline*



### 2020 Fellowship Awardees

- *Evaluation of repair strength of conventional, milled, and printed PMMA provisional crown materials with different surface treatments and repair resins*

Principal Investigator: Bright JeSuk Chang, DMD  
School: University of Alabama At Birmingham (2022)

- *The effects of additive manufacturing technologies and finish line designs on the accuracy and dimensional stability of 3D-printed dies*

Principal Investigator: Yi-Cheng Lai, DDS  
School: Indiana University (2022)

- *Adherence of Candida albicans to digitally and conventionally fabricated acrylic resin denture bases*

Principal Investigator: William E. Linder, DMD  
School: University of North Carolina (2022)

- *Effect of Arginine-Glycine-Aspartic Acid Peptide Coating on the Adhesion of Co-cultured Fibroblasts and Epithelial Cells to Custom Abutment Materials*

Principal Investigator: Philip Mui, DMD  
School: University of Maryland (2023)

- *Effects of Screw-Channel Angulation and Titanium-base connection on the Fracture Resistance of Anterior Zirconia Implant Abutments*

Principal Investigator: Chen Xuan Wei, DDS, PhD  
School: University of Michigan (2022)

## **2019 Fellowship Awardees**

- *Dimensional Changes of Zirconia Copings Under Different Preparation Designs and Sintering Protocols*

Principal Investigator: Walaa Magdy Ahmed, BDS, MSc  
School: University of British Columbia (2019)

- *In-vitro Analysis of Fracture Strength CAD Milled vs Printed Denture Bases with Bonded Denture Tooth*

Principal Investigator: Brittany A. Kane, DMD  
School: University of California, Los Angeles (2021)

- *Bacterial diversity and attachment of silver-coated titanium using ALD technology, In vivo study*

Principal Investigator: Meghan M. Koennecke, DMD  
School: University of Illinois At Chicago (2021)

- *In Vitro Evaluation of Candida albicans Adherence and Denture Disinfection Techniques on CAD/CAM Printed, Milled and Heat-Cured PMMA Polymers*

Principal Investigator: Mohammad Amir Koujan, DDS, MS  
School: University of Alabama At Birmingham (2020)

- *Microbiome Characterization of Extra-Oral Implant and Soft Tissue in Direct Contact with Maxillofacial Prostheses*

Principal Investigator: Jun Soo Shin, DDS  
School: University of Illinois At Chicago (2021)

## **2018 Fellowship Awardees**

- *CAD/CAM Quality Assurance: Additive Manufacturing of Dies for Assessment of Fit of Full Coverage Restorations*

Principal Investigator: Neil Griseto, BDentSc.  
School: UT Health San Antonio (2019)

- *Assessment of 3D Facial Scan Integration in 3D Digital Work Flow using Radiographic Markers and Iterative Closest Point Algorithm*

Principal Investigator: Mohamed Elshewy, BDS, MS  
School: Marquette University (2020)

- *miR-133a and miR-135a as a Novel Target for Bone Regeneration*

Principal Investigator: Santvana Vyas, DDS  
School: New York University (2019)

- *Effect of Nano Ceramic Coating on Color Acceptability and Perceptibility of Polymethylmethacrylate: In Vitro and Clinical Study*

Principal Investigator: Laura Koo Min Chee, DMD  
School: University of Illinois at Chicago (2019)

- *Determining the Perceptibility and Acceptability Threshold of the Relative Translucency Parameter for Porcelain Crowns*

Principal Investigator: Yale Cho, DMD  
School: University of Illinois at Chicago (2020)

## **2017 Fellowship Awardees**

- *Oral Microbiome Changes Associated with Fixed Dental Prosthodontic Restoration*

Principal Investigator: Sarah Kay Youny Lee, DDS  
School: University of North Carolina (2018)

- *Dynamic Virtual Articulation: Trueness and Precision*

Principal Investigator: Michael R. Hsu, DDS  
School: University of Maryland (2020)

- *An in vitro Study of Osteoblasts Response to Surface-Modified Titanium and PEEK*

Principal Investigator: Maryam Gheisarifar, DDS  
School: Marquette University (2019)

- *Effect of Accelerated Aging on the Mechanical and Optical Properties of the New Translucent Zirconia*

Principal Investigator: Amir H. Nejat, DDS, MS  
School: Louisiana State University (2020)

- *Influence of Abutment Material, Ceramic Thickness and Luting Cement on the Color of Lithium Disilicate*

Principal Investigator: Diana Cuesta, DMD  
School: University of Illinois at Chicago (2019)

## **2016 Fellowship Awardees**

- *Fungal and Bacterial Pathogen Biofilm Formation on Anatomical Denture Base Materials*  
Principal Investigator: Dr. Angela Gullard  
School: University of Tennessee (2019)
- *Dimensional Stability of CAD/CAM Patterns*  
Principal Investigator: Dr. Shane S. Byun  
School: University of Maryland (2020)
- *Evaluation of marginal discrepancies of monolithic zirconia crowns under the influence of different preparation designs and sintering techniques*  
Principal Investigator: Dr. Walaa Ahmed  
School: University of British Columbia (2018)
- *Effects of CAD/CAM Acrylic on Human Gingival Fibroblast Differentiation, Proliferation, and Attachment*  
Principal Investigator: Dr. David W. Chen  
School: University of Maryland (2019)
- *Assessment of the internal fit and marginal integrity of interim crowns with different manufacturing methods*  
Principal Investigator: Dr. Chin Chun (Jean) Peng  
School: University of Washington (2018)

## **2015 Fellowship Awardees**

- *Fracture Resistance of Pressed and Milled Lithium Disilicate Complete Coverage Restorations Following Endodontic Access Preparation*  
Principal Investigator: Dr. Petrina Gerogianni  
School: University of Texas Health Science Center at San Antonio (2017)
- *Effect of Chairside Surface Treatments on Subsurface Damage in Monolithic Zirconia*  
Principal Investigator: Dr. Kan Wongkamhaeng  
School: University of Iowa (2016)
- *Split mouth comparison of one versus two stage guided maxillary implant placement for over dentures with patient satisfaction evaluations*  
Principal Investigator: Dr. Kimberly K. Schlam  
School: University of North Carolina (2017)
- *Comparative assessment of two denture fabrication techniques: conventional vs. digital*  
Principal Investigator: Dr. Wissanee Jia-mahasap  
School: University of Iowa (2017)
- *Adherence of Microorganisms to Acrylic Resins*  
Principal Investigator: Dr. Malek R. AIShehri, BDS  
School: University of Maryland (2018)

## **2014 Fellowship Awardees**

- *Effect of drug-eluting nanoparticles on pulpal inflammation*  
Principal Investigator: Dr. Seung Kee Choi  
School: University of Maryland, Baltimore, School of Dentistry (2017)
- *The potential of fibroblast growth factor 18 for bone regeneration*  
Principal Investigator: Dr. Siamak Najafi-Abbrandabadi  
School: New York University, College of Dentistry (2016)
- *The use of topical subgingival application of simvastatin gel in the treatment of peri-implant mucositis: a pilot study*  
Principal Investigator: Dr. Ahmed Mahrous  
School: University of Iowa, College of Dentistry (2016)
- *Molecular Assessment of Peri-Implant Tissue at Bone vs. Tissue Level Implants*  
Principal Investigator: Dr. Anthony P. Gragg  
School: University of North Carolina, School of Dentistry (2016)
- *The effect of a novel implant surface incorporated with an osteogenic peptide on gene expression and osseointegration*  
Principal Investigator: Dr. Loreta Geneviciute  
School: New York University College of Dentistry (2017)
- *The Fabrication of an Acrylic Repositioning Stent for use during Intensity Modulated Radiation Therapy (IMRT): a feasibility study.*  
Principal Investigator: Dr. Vincent S. Lee  
School: University of British Columbia, Department of Oral Health Sciences (2016)

## **2013 Fellowship Awardees**

- *Examination of Initial Wound Healing and Osseointegration of Trabecular Metal Implants (Porous Tantalum Metal Implants) between Healthy and Diabetic Subjects*

Principal Investigator: Dr. Christian Brenes

School: University of North Carolina School of Dentistry (2014)

- *Antibacterial Assays of Porphyromonas gingivalis on Novel Silver Embedded Titania Nanotube Surface for Dental Implants*

Principal Investigator: Dr. Amy S. Au

School: University of Illinois at Chicago College of Dentistry (2015)

- *The effect of stromal cell-derived factor 1 on bone regeneration in vivo*

Principal Investigator: Dr. Gabriela Carranza

School: New York University College of Dentistry (2014)

- *Antibiotic use in conjunction with immediate implant placement to replace teeth with apical pathology associated with endodontic origin*

Principal Investigator: Dr. Bashir Hosseini

School: University of North Carolina School of Dentistry

- *The potential of stem cell homing chemokine for bone regeneration*

Principal Investigator: Dr. Jeremy D. Kay

School: New York University College of Dentistry (2015)

- *Flexural Strength/modulus, and fracture toughness of Lava Ultimate vs eMax CAD/CAM*

Principal Investigator: Dr. Ian D. Thornton

School: University of British Columbia (2014)



## **2012 Fellowship Awardees**

- *Engineered Injectable Biodegradable Scaffold as a Carrier for PDL (PDLSCs) and Gingival Mesenchymal Stem Cells (GMSCs) for Applications in Periodontal Tissue Regeneration*

Principle Investigator: Dr. Alireza Moshaverinia

School: University of Southern California Herman Ostrow School of Dentistry (2012)

- *The effect of novel implant surfaces on gene expression and osseointegration*

Principle Investigator: Dr. Sanjay Karunagaran

School: New York University School of Dentistry

- *Influence of Preparation Design on Lithium Disilicate Anterior Restorations*

Principle Investigator: Dr. Carlos Castro

School: New York University College of Dentistry (2012)

- *Retrieval torque and fatigue failure of cement-retained IPS e.max Press® crowns*

Principle Investigator: Dr. Amalie Lomartire

School: Montefiore Medical Center / Albert Einstein College of Medicine (2013)

- *A novel device for measuring patient compliance with oral appliances in the treatment of obstructive sleep apnea*

Principle Investigator: Dr. Yves K. Smith

School: University of Texas Health Science Center at San Antonio (2012)

- *Influence of Implant Angulations on the Fracture Resistance of Zirconia Abutments*

Principle Investigator: Dr. Shreedevi Thulasidas

School: University of Alabama at Birmingham School of Dentistry (2013)

## **2011 Fellowship Awardees**

- *Prosthetic Complications With an Implant Supported Fixed Denture – The UNC Protocol*

Principle Investigator: Dr. Bryan M. Limmer

School: University of North Carolina at Chapel Hill (2012)

- *Immediate placement and loading of dental implants into infected sites with and without antibiotic prophylaxis: an exploratory study*

Principle Investigator: Dr. Edward J. Givens, Jr.

School: University of North Carolina at Chapel Hill (2012)

- *The effect of a bioactive collagen membrane carrying PDGF on bone regeneration*

Principle Investigator: Dr. Terry Y. Lin

School: New York University College of Dentistry (2011)

- *Cell-sheet Engineered Implant: A novel cell therapy for enhancing osseointegration*

Principle Investigator: Dr. Rajita Kodali Kanuru

School: University of California Los Angeles School of Dentistry

- *A Comparison of Active and Passive Motion Therapy in Radiation-Induced Trismus Patients*

Principle Investigator: Dr. Richard C. Cardoso

School: University of Texas MD Anderson Cancer Center (2011)

## **2010 Fellowship Awardees**

- *Effects of Processing Conditions on Mechanical and Physical Properties of Y-TZP Zirconia Subjected to Low Temperature Degradation*

Principal Investigator: Aws ArRajaie  
School: Boston University

- *Evaluation of Denture Plaque for the Presence of Pneumonia-Associated Pathogens in an Ambulatory Patient Population*

Principal Investigator: Dr. Bethany Kronberg  
School: Loma Linda University (2010)

- *A Prospective Clinical Study of Fixed Four-Implant Supported Protheses in Endentulous Maxilla: Treatment Efficacy and 12 Months Implant Survival Rate after Prosthesis Delivery*

Principal Investigator: Dr. Oliver C. Pin-Harry  
School: University of North Carolina (2011)

- *Variables in the Etiology of Porcelain Veneer Fracture in All-Ceramic Single Unit Crowns*

Principal Investigator: Dr. Thomas P. Suranyi  
School: University of North Carolina (2011)

- *Effect on Abutment Wall Modification on the Retention of Cement-Retained, Implant Supported Crowns*

Principal Investigator: Dr. Kian Meng Tan  
School: University of Maryland, Baltimore (2010)

- *The Effect of Denture Cleansing Solutions on the Retention of Pink Locator Attachments after Multiple Pulls; an In Vitro Study*

Principal Investigator: Dr. Wenguang K. You  
School: University of Maryland, Baltimore (2010)

## **2009 Fellowship Awardees**

- *Low Temperature Degradation Effects on the Flexural Strength, Structure, and Hardness of Zirconia Based CAD/CAM Dental Restorations*

Principal Investigator: Tariq Fadel Alghazzawi  
School: University of Alabama at Birmingham

- *Analysis of Saliva in Patients with Denture Stomatitis: An Exploratory Study*

Principal Investigator: Dr. Sandra K. Al-Tarawneh  
School: University of North Carolina at Chapel Hill (2012)

- *In Vitro Microleakage of Dual-Cure Composite Core Materials*

Principal Investigator: Dr. Jennifer L. Fritz  
School: University of Iowa, College of Dentistry (2009)

- *Neural Crest Contributions to Dental Pulp Stem Cells and Craniofacial Structures: Alveolar Process, Tongue and Temporomandibular Joint*

Principal Investigator: Dr. Vinay Jain  
School: University of Tennessee Health Science Center (2010)

- *Dimensional Stability of Stereolithographic Surgical Guides on Exposure to Light, Temperature, Moisture and Autoclaving: A Pilot Study*

Principal Investigator: Dr. Irfan S. Kachwala  
School: University of Medicine and Dentistry of New Jersey (2010)

- *The Effect of Angulation on the Retentive Values of Locator Attachments; An In Vitro Study*

Principal Investigator: Dr. Richard A. Wilson  
School: University of Maryland, Baltimore (2010)

## **2008 Fellowship Awardees**

- *A Crossover Study between Two Oral Appliances for the Treatment of Obstructive Sleep Apnea*  
Principal Investigator: Dr. Bradley M. Bishop  
School: University of Texas Health Science Center, San Antonio (2009)
- *Analysis of Post-Fatigue Reverse-Torque Values at the Abutment/Implant Interface for a Unitarian Implant Design*  
Principal Investigator: Dr. Paul M. Cashman  
School: University of Iowa (2009)
- *Relationship between Clinical Periodontal Biotype and Labial Plate Thickness; A Pilot Study*  
Principal Investigator: Ryan Cook  
School: University of Texas Health Science Center, San Antonio (2010)
- *Bonding Characteristics of Acrylic Denture Teeth to Denture Base Resins*  
Principal Investigator: Madelyn L. Fletcher-Stark  
School: University of Washington School of Dentistry (2009)
- *Inhibition of Candida Albicans Biofilm Formation on Denture Acrylic Resin Surfaces by Amine Oxide and Candida Albicans Interaction with Human Monocytes*  
Principal Investigator: Dr. Jonathan M. Hart  
School: University of Tennessee Health Sciences Center (2009)
- *Preliminary In Vivo Investigation of the Biodegradability of a Novel Elastomer Material for Bone Regeneration*  
Principal Investigator: Dr. Theodoros M. Kapos  
School: Harvard University School of Dental Medicine (2008)
- *Effect of Denture Cleansing Solutions on the Retention of Pink Locator Attachments, an In Vitro Study*  
Principal Investigator: Dr. Caroline Nguyen  
School: University of Maryland (2009)
- *Role of cp Titanium Surface Topography in Peri-Implant Osteoclastogenesis Rat Model*  
Principal Investigator: Dr. Ghadeer N. Thalji  
School: University of North Carolina School of Dentistry (2009)

## **2007 Fellowship Awardees**

- *Proposal for a 1-Year Prospective Clinical Trial on the Implant Survival with Immediately-Loaded 2-Implant Locator Attachment Retained Mandibular Overdentures*  
Principal Investigator: Dr. Jmi Lilinoe Bassett Bassett  
School: University of Illinois at Chicago (2008)
- *A Comparative Study of the Accuracy of Plastic Impression Transfer Copings for Single Implant Restorations*  
Principal Investigator: Dr. Monica A. Fernandez  
School: Indiana University School of Dentistry (2009)
- *Effect of Attachment Number on Retention Characteristics in Overdentures*  
Principal Investigator: Dr. Chin-chuan Fu  
School: University of Alabama at Birmingham (2007)
- *Does Vitamin D Deficiency Contribute to Abnormal Synthesis of Cementinlayer on Titanium Implant, and Thus Negatively Affect the Implant Osseointegration?*  
Principal Investigator: Dr. James A. Kelly  
School: University of California, Los Angeles (2007)
- *Evaluation of Obstructive Sleep Apnea Patients' Oral Appliance Titration Protocols*  
Principal Investigator: Dr. Paul M. McLornan  
School: University of Texas Health Science Center, San Antonio (2007)
- *Enhancing Dental Implant Osseointegration via Non-Viral Gene Delivery*  
Principal Investigator: Tarek Sharkas  
School: University of Pittsburgh (2009)
- *Genetic Markers for Accelerated Bone Loss of Edentulous Jaws*  
Principal Investigator: Jaijam Suwanwela  
School: University of California Los Angeles, School of Dentistry (2009)
- *Molecular Analysis of Edentulous Oral Mucosa Formation in Type 2 Diabetes Mice – Preliminary Data*  
Principal Investigator: Dr. Seiichi Yamano  
School: Harvard University School of Dental Medicine (2007)

## **2006 Fellowship Awardees**

- *Effect of Surface Modification of Denture Base Resins on the Adhesion of Candida Albicans*

Principal Investigator: Ryan Bissett

School: Harvard University School of Dental Medicine

- *A Comparative Study of Three-Implant Supported Fixed Dentures and Two-Implant Retained Overdentures in Edentulous Mandible: A Pilot Study of Treatment Efficacy and Patient Satisfaction*

Principal Investigator: Dr. Kuang-Han Chang

School: University of North Carolina School of Dentistry

- *The Effect of Primers and Surface Characteristics on the Adhesion of Silicone Elastomers to Polyurethane*

Principal Investigator: Dr. Paul P. Chang

School: University of Texas Health Science Center, San Antonio (2008)

- *The Change in Retentive Values of Locator Attachments and Hader Clips Over Multiple Pulls*

Principal Investigator: Dr. Elizabetha Evtimovska

School: University of Maryland, Baltimore (2007)

- *Molecular Analysis of Edentulous Oral Mucosa Formation in Type 2 Diabetes Mice*

Principal Investigator: Dr. Seiichi Yamano

School: Harvard University School of Dental Medicine (2007)

## **2005 Fellowship Awardees**

- *Characteristics of Retention between Prefabricated and Custom Cast Attachments*

Principal Investigator: Dr. Chin-chuan Fu  
School: University of Alabama at Birmingham (2007)

- *Comparison of Denture Base Adaptation Using Three Different Processing Techniques*

Principal Investigator: Dr. Jin Ha Joung  
School: University of Connecticut Health Center (2006)

- *Do Collagen Gels Enhance Osteoblast Adhesion and Differentiation?*

Principal Investigator: Matt Miller  
School: University of Iowa

- *Microbiota of the Edentulous*

Principal Investigator: Dr. Amit Sachedo  
School: Harvard University (2007)

- *Effect of Cross-sectional Design on Fiber-reinforced Composite Fixed-detachable Denture Cantilever Failure*

Principal Investigator: Kevin Scott  
School: University of Oregon Health Sciences Center