2005 – 2021 ACP Education Foundation

Research Fellowships

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

2021 Fellowship Awardees

- **Comparison of Surface Characteristics of Denture Base Resin Materials with Two Different Surface Treatment Protocols**
  
  Principal Investigator: Hesham K. Alouthah, BDS
  School: Indiana University (2023)

- **Trueness and Precision of Economical Smartphone-Based Virtual Facebow Records: A Comparison Between Smartphone Results and Industrial 3D Scanner Results**
  
  Principal Investigator: Robert J. Ault, DDS
  School: University of Michigan (2023)

- **Bond Strength of Titanium Copings to Implant-Supported Fixed-Detachable Dental Prostheses**
  
  Principal Investigator: Sieu Yien (Ashley) Chiam, DDS
  School: University of Washington (2023)

- **In-Vitro Analysis of Two-body Wear of 3-Dimensional-Printed Occlusal Splint Materials Against Different Antagonists of Fixed Prosthodontic Restorative Materials**
  
  Principal Investigator: Bhavinkumar Balendrakumar Patel, BDS
  School: University of Michigan (2023)

- **The Effect of Different Screw Angulations on the Fracture Resistance of Implant Zirconia Single Crowns Made on Two Different Implant Platforms**
  
  Principal Investigator: Chitipat Siriwattayacharoen, DDS
  School: Texas A&M University (2023)
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

- **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. AlShehri, 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-Abrandabadi  
  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  

  
  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

- **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  

- *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 Kodalie 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 Prostheses 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 Cementline layer 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

- Do Collagen Gels Enhance Osteoblast Adhesion and Differentialation?
  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