

Student Research Projects for the Past Three Years

| Student | Research Project Title | Faculty Mentor |
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| <i>Predocctoral</i> | | |
| Anna Vishnevetsky Jennifer Mirman (2017) | Practice location, new medicaid children acceptance and training in advocacy: Predict pediatric dentists' willingness to advocate for water fluoridation | Dr. Vinodh Bhoopathi |
| Dan Hoang Calvin Lin (2017) | Computerized management of dental anxiety: a feasibility study with predoctoral dental students | Dr. Shannon Myers Virtue Dr. Marisol Tellez Merchan |
| Monica Dilger Alexis Ginnane (2017) | Dental students' rating of public health related topics in dental education | Dr. Vinodh Bhoopathi Mr. John Moore |
| Joshua Munch (2017) | Prophylactic antibiotic usage in non-operative, closed facial fractures: a systematic review | Dr. Stanton Braid |
| Benzon Huynh Shea Devine Miriam Ting (2017) | Laser treatment of periodontal disease: a systematic review of histological outcomes | Dr. Stanton Braid Dr. John Suzuki |
| Elizabeth Grumbein Emma Quigley Jennifer Hirsch (2017) | Patient awareness, opinions and attitudes about Temple University School of Dentistry's smoking policy | Dr. Shannon Myers Virtue Dr. Vinodh Bhoopathi |
| Wayne Thomas David Young Miriam Ting (2017) | Intraoral soft tissue and periodontal applications of lasers in humans: a comprehensive overview of systematic reviews | Dr. Stanton Braid |
| Andrea Campoli Christina Chung Melinda Bryant (2017) | The impact of Temple University's smoking policy: dental student and faculty perspectives | Dr. Shannon Myers Virtue Dr. Vinodh Bhoopathi |
| Robert J. Faulkner Miriam Ting (2017) | Tooth to implant-supported fixed partial denture: a comprehensive overview of systematic reviews | Dr. David Donatelli |
| Jeremy Hwang Maham Shah (2017) | Identifying underlying reasons for dental patient no-shows | Dr. Shannon Myers Virtue Dr. Marisol Tellez Merchan |

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| Tabitha Richards (2017) | PITX2 and ESR1 expression in craniofacial asymmetry subclassifications and TMD | Dr. Michael Horton Dr. James Sciote Dr. Jeffrey Godel |
| Miriam Ting (2017) | Post-extraction healing with or without ridge preservation with platelet-rich fibrin: a case report | Dr. Stanton Braid Dr. Jie Yang Dr. John. Suzuki |
| Elizabeth Cohen (2017) | Visualization of subgingival margins of crown preparations with hyperspectral imaging using a swine animal model | Dr. Wanda Gordon |
| Stephen McCown Kieran Mullarney Alessio Scott (2017) | Effects of ACTN3 genotypes on mouse masticatory musculature and mandibular bone morphology | Dr. James Sciote |
| Trent Gabriel (2017) | The flipped classroom approach to teaching predoctoral oral histology | Dr. Judith Litvin |
| Arik Adhami Philip Afshar (2017) | Maxillary sinus augmentation using chairside bone marrow aspirate concentrates for implant site development: a systematic review of histomorphometric studies in humans | Dr. Stanton Braid |
| Fred Arino (2017) | Effects of ACTN3 KO on mandibular condyle microarchitecture and bone morphology | Dr. James Sciote |
| Naga Sucharitha Tadepalli Rajamanoj Kondaveeti (2017) | Intra-oral applications of platelet concentrates: a comprehensive overview of systematic reviews | Dr. Stanton Braid |
| Elizabeth Felton Kristin Hutkin (2016) | The use of a functionally generated occlusal registration in digital dentistry | Dr. Aaron Segal Dr. Hai Qing |
| Amrita Bhan (2016) | Effects of ACTN3 knockout on bone density and trabeculation in jaw bones | Dr. James Sciote |
| Alison Kite (2016) | How to choose implant abutments to ensure a common path of insertion | Dr. Hai Qing |

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| Jeremy Rice Miriam Ting (2016) | Sinus augmentation for dental implant rehabilitation of the edentulous ridge: a comprehensive overview of systematic reviews | Dr. Stanton Braid |
| Matthew Tenaglia Miriam Ting (2016) | Implant, surgical and patient related factors affecting marginal bone loss around dental implants: a comprehensive overview of systematic reviews | Dr. Gary Jones |
| Eman Abouhabib (2016) | Effects of dietary fructose on different biomarkers of bone health in mice | Dr. James Sciote |
| Andrew Gschweng (2016) | Effects of aqueous storage time on surface microhardness & surface modulus of a flowable and a micro-hybrid composite resin | Dr. Steven Jefferies |
| Minquan Dao Min Kim (2016) | Development of a new method: use of iopamidol contrast agent for detection of horizontal root fractures | Dr. Htin Gyaw Dr. Jie Yang |
| Fred Arino (2016) | Effects of ACTN3 KO on mandibular condyle microarchitecture and bone morphology | Dr. James Sciote |
| Jeff Alba (2016) | Effects of Alpha-Actinin-3 Knockout on bone density and trabecular pattern in mouse cranial base and calvarial bones | Dr. James Sciote |
| Adnan Kazim (2016) | Effect of laser-irradiated dentin to the adhesion and proliferation of dental pulp stem cells | Dr. Jong Kim |
| Trent Gabriel (2016) | The flipped classroom approach to teaching predoctoral general and oral histology | Dr. Judith Litvin |
| Stephanie Calora (2016) | The relationship between parental and children's oral health | Dr. Shannon Myers Virtue |

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| Alexander Dao (2015) | Evaluation of the internal consistency of a new proposed set of items and current set of items used to evaluate behavioral competencies in dental care | Dr. Shannon Myers Virtue Dr. Marisol Tellez Merchan |
| Bari Levine (2015) | Assessment of oral health status and efficacy of a brief oral health intervention among Peruvian orphans: a longitudinal study | Dr. Amid Ismail |
| Miriam Ting (2015) | A meta-analysis of implant characteristics on the survival of wide diameter implants | Dr. Matthew Palermo Dr. David Donatelli Dr. Steven Jefferies |
| Miriam Ting (2015) | A systematic review of in-vitro studies of the antimicrobial effects of statins on oral pathogens | Dr. Jasim Albandar Dr. Eugene Whitaker |
| Adam D. Lietzan (2015) | The carboxyltransferase domain from pyruvate carboxylase: a novel therapeutic target against pathogenic bacteria found in the oral and oropharyngeal cavities | Dr. Thomas Rams |
| Amrita Bahn (2015) | Diagnosis of idiopathic condylar resorption with posterior-anterior cephalogram | Dr. James Sciote |
| Areej Almas (2015) | Miswak (<i>Salvadora persica</i> chewing stick): The natural toothbrush revisited | Dr. Steven Jefferies |
| Jeff Alba (2015) | Identification of posterior facial asymmetry with submento-vertex cephalogram analysis | Dr. James Sciote |
| Kaleigh Namiotka Holly Gray (2015) | Comparative tensile strength properties of bioactive restorative materials (dental materials) | Dr. Steven Jefferies |
| Miriam Ting (2015) | Microhardness (“nanohardness”) changes in a collagen membrane subjected to remineralizing solution | Dr. Steven Jefferies |
| Kate Weger Ryan Raouf Krystal Gage (2015) | Strength properties (diametral tensile strength/compressive strength) of resin-based temporary crown and bridge materials | Dr. Steven Jefferies |

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| Edgar A. Ralff (2015) | Development & evaluation of MicroCT test method to assess & quantify demineralization & remineralization in-vitro | Dr. Steven Jefferies |
| <i>Graduate/Resident</i> | | |
| Matt Campbell (2017) | Practical method to superimpose sella turcica in serial CBCT images | Dr. Orhan Tuncay Dr. Jeffrey Godel Dr. Byron Viechnicki Dr. Jie Yang Mr. John Moore |
| Jake Dorfman (2017) | Cement composition effects on enamel demineralization adjacent to orthodontic brackets | Dr. Daniel Boston Dr. Jeffrey Godel Dr. Steven Jefferies |
| Aaron Salimnia (2017) | Effect of post cement type on strength and stiffness of standardized root structures | Dr. Roni Nissan Dr. Steven Jefferies |
| Michelle Jordán (2017) | The effect of collagen modification and dentin bonding on the fracture strength of standardized root structures | Dr. Steven Jefferies Dr. Roni Nissan |
| Kaitlyn Schiels (2017) | Antibacterial effects of modified orthodontic mini-implants to S. Mutans | Dr. Steven Jefferies Dr. Jeffrey Godel Dr. Eugene Whitaker |
| Salome Masrani Dalia Alzebeleh (2017) | The effect of nutritional deficiency on the mitochondrial activity, proliferation and apoptosis of human dental pulp stem cells (hDPSCs) | Dr. Maobin Yang Dr. Jong Kim |
| Eliana Sarit (2017) | Assessment of mandibular surface changes during growth and development | Dr. Byron Viechnicki Dr. Jeffrey Godel Dr. Jie Yang Dr. Orhan Tuncay |
| James Cavalancia (2017) | Effectiveness of a lingual arch as maximum anchorage in orthodontics | Dr. Jeffrey Godel Dr. C. Doumit Mr. John Moore |
| Salam Rajih (2017) | Early life exposures and childhood dental caries among children 1-5 years old. | Dr. Marisol Tellez Merchan Dr. Vinodh Bhoopathi |
| Marc Manos (2017) | Novel use of CO2 laser in gingival depigmentation | Dr. Keisuke Wada |
| Xiomara Rivera (2017) | Level of sterility of endodontic files prior to instrumentation | Dr. Wanda Gordon Dr. Roy Stevens |

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| Nina Guba (2017) | Management of periodontal complications in a patient with non-Hodgkin's lymphoma | Dr. Jasim Albandar |
| Erin Bauerle (2016) | Masseter CACNA2D1 expression differs by sex, ACTN3 genotype and TMD | Dr. Michael Horton Dr. James Sciote Dr. Jeffrey Godel |
| Salar Sanjari (2016) | Effect of bacteriophage ϕ Efl1 endolysin on Enterococcus faecalis biofilms | Dr. Hongming Zhang Dr. Roy Stevens |
| Destinee Zablocki (2016) | Decreased calstabin-1 expression in masseter of subjects with ACTN3-R577XX genotype | Dr. Michael Horton Dr. Jeffrey Godel Dr. James Sciote |
| Hari Priya Chebrolu (2016) | Release of growth factors into root canal by irrigation in regenerative endodontics | Dr. Maobin Yang |
| Zhanna Konovalenko (2016) | Sex-specific association of α (B)-crystallin expression with masticatory muscle myalgia | Dr. Michael Horton Dr. Jeffrey Godel Dr. James Sciote |
| Leonid Epshteyn (2016) | Optimal specifications for measuring bone-to-implant contact of mini-screws using micro-CT | Dr. Steven Jefferies Dr. James Sciote Dr. Jeffrey Godel |
| Patricia Campillo (2016) | Differential expression of miRNA328 in malocclusion subjects with facial asymmetry | Dr. Michael Horton Dr. Jeffrey Godel Dr. James Sciote |
| Damian Mariano (2016) | Assessing the interdimensional fit of archwire-bracket slot engagement using microCT | Dr. Steven Jefferies Dr. James Sciote Dr. Jeffrey Godel |
| Shang-Lun Liu (2016) | Case report: vertical bone augmentation in posterior mandible at the time of failing molars extraction | Dr. Fathi Elgaddari |
| Sean Park (2016) | Case report: socket grafting using composite graft (autogenous bone block, allograft and PRF) after extracting cracked tooth | Dr. Fathi Elgaddari |
| Ronald Jarquin (2016) | Case report: root submergence in esthetic zone to preserve alveolar ridge for future implant placement | Dr. Fathi Elgaddari |
| Jeffrey Yui (2016) | The effects of emdogain on the migration, attachment, proliferation and differentiation of hDPSCs | Dr. Maobin Yang |
| Jennifer Lopes (2016) | Phenytoin-induced gingival enlargement: a case report | Dr. Farshid Sanavi Dr. Fathi Elgaddari |

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| Faleh S.M.F. Sh. Alajmi (2016) | Water sorption of flowable composites | Dr. Eugene Whitaker Dr. Steven Jefferies |
| Abdulaziz Alshammari (2016) | In-vitro effect of statins on selected strains of oral streptococci | Dr. Eugene Whitaker |
| Shin-Chieh (Bonnie) Yang (2016) | Photobiomodulation effect of low-level laser therapy on fibroblast | Dr. Maobin Yang Dr. Jong Kim |
| Lan Liao (2016) | Quantitative analysis of complete dentures by digital occlusal analysis system | Dr. Hongming Zhang Dr. Jie Yang |
| Thomas Langan (2016) | Clinical differences and challenges associated with treating anterior maxilla with implant therapy | Dr. Fathi Elgaddari |
| Abdulrahman Al-Ehmeli (2015) | Prevalence of maxillary sinus pathology in patients of Temple University Kornberg School of Dentistry. Part II: association and relationship between smoking, allergies and sinus pathology | Dr. Jie Yang Dr. Yueh Hsiao Dr. John. Suzuki |
| Lindsay E. Rambo (2015) | Temporomandibular joint disorders and nasal septum deviation in dentofacial deformity patients | Dr. James Sciote |
| Brian Zebrick (2015) | α -Actinin-2 does not compensate for loss of α -Actinin-3 in humans | Dr. Michael Horton Dr. Jeffery Godel Dr. James Sciote |
| Dan Wulc (2015) | Efficacy of fluoride varnish in management of orthodontic white spots | Dr. Jeffrey Godel Dr. Marisol Tellez Merchan Dr. Michael Horton Dr. James Sciote |
| Lauren Gray (2015) | ATP2A2 associates with masseter fiber composition in Class II malocclusion | Dr. Michael Horton Dr. Jeffrey Godel Dr. James Sciote |
| Yonatan Cohen (2015) | Dimensional slot integrity and precision of self-ligating buccal tubes | Dr. Steven Jefferies Dr. James Sciote Dr. Jeffrey Godel |
| Nadia Liss (2015) | The antibacterial effect of genetically engineered bacterial virus bacteriophage ϕ Ef11(vir) on strains of Enterococcus faecalis | Dr. Wanda Gordon Dr. Roni Nissan Dr. Hongming Zhang Dr. Roy Stevens |

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| Saehee Kim (2015) | A systematic review of the cervical plexus nerve and its role in dental anesthesia | Dr. Jie Yang |
| Christopher Maguire-Adams (2015) | Effect of post cementation on the fracture strength of standardized root structure | Dr. Roni Nissan Dr. Steven Jefferies |
| Jasi Almutairi (2015) | Time-dependent changes in surface microhardness of bioactive cements | Dr. Steven Jefferies |
| Hao Tran (2015) | Evaluating the cytotoxicity of a potentially new polyurethane-based root canal sealer material | Dr. Maobin Yang |
| Molly Hottenstein (2015) | Differential expression of PITX2 in adults with facial asymmetry | Dr. Michael Horton Dr. James Sciote |
| Patricia Campillo-Peralta (2015) | Differential expression of miRNAs in malocclusion subjects with facial asymmetry | Dr. Michael Horton Dr. Jeffrey Godel Dr. James Sciote |
| James Cavalancia (2015) | Altered mandibular length in an Alpha-Actinin-3 null mouse model | Dr. Michael Horton Dr. Jeffrey Godel Dr. James Sciote |