

Summer Research Projects, Mentors, and Presentations, 2008-2011

Every student presents a poster on the annual SOD Research Updates day  
 The "Abstract Presented at" column indicates additional presentations of their poster at additional regional or national venues  
 Midwest=Midwest Dental Student Research Conference; Hinman = the Hinman Symposium at U of TN SOD  
 AADR/IADR = the American/International Association for Dental Research annual meeting

<b>"College"</b>	SOD=School of Dentistry
<b>Abbreviations</b>	MS=Medical School HP=Health Partners NIDCR=National Institute of Dental & Craniofacial Research CVM=College of Veterinary Medicine PSY=Dept. of Psychology, College of Liberal Arts MnDH= Minnesota Department of Health, Dental Division

**Projects Completed in 2005**

Presenter	Class	Poster title
Alvi, Daood	D1	IL-22 Up-regulation of calprotectin(S100A8/A9)-specific mRNA in oral epithelial cells
Habib, Rania	D1	Activin A induces cell proliferation in HNSCC cell lines
Lam, Nancy	D1	Heparin sulfate proteoglycans contribute to uptake of HIV-1 by oral keratinocytes
Morse, Tim	D1	Cancer cells modify dorsal root ganglion neurons
Peterson, Tyler	D1	Isolation and characterization of <i>Bacillus subtilis</i> mutants defective in phage ø29 assembly
VanLandschoot, Camille	D1	Regulatory light chain exchange in muscle fiber renews force generation
Yoneji, Heather	D1	Cannabinoid effect on tumor-evoked increase in paw volume
Grossman, Tracy	D2	Creation of multi-Species biofilms with the Calgary Biofilm Device
Johnson, Jeremy	D2	Sortase A as a regulator of streptococcal adhesin gene expression
Madson, Andrew	D2	Remineralization of demineralized enamel with a calcium-containing toothpaste
Mielke, Claire	D2	Craniofacial expression of PVRL1 in early embryogenesis in Zebrafish
Sievers, Matthew	D2	Lateral cephalometric superimposition using automated image fitting techniques
Sjulson, Justin	D2	Evaluation of a novel additive of dental stone
Stafford, Jennifer	D2	The role of osteoclasts in regulating osteoblast differentiation
Wetzel, Stephanie	D2	Cannabinoid effect on tumor growth in a cancer pain model
Yang, Yvonne	D2	PTH regulation of MGP and OPN expression in MC3T3-E1 osteoblasts
Clifford, Steve	D3	How do two different methods for determination of elastic modulus compare?
Pearson, Andrew	D3	Outcome of different postoperative wound care following third molar extractions
Sampair, Christopher	D3	Anatomic variation of anterior ethmoid cells: A retrospective study on panoramic radiographs

**Projects Completed in 2006**

Presenter	Class	Poster title
Chi, Amy	D1	The Role of Osteoclasts in Regulating Osteoblast Differentiation
Daniels, Katie	D1	Expression and role of matrix gla protein in osteoblast differentiation and mineralization
Evavold, Jamie	D1	Search for genes encoding PGE <sub>2</sub> QPK-motif in <i>Streptococcus sanguis</i> 133-79
Horton, Heather	D1	Integration of HIV-1 into Oral Keratinocytes
Huang, Alice	D1	Remineralization of Eroded Teeth Using CPP-ACP Paste
Jenders, James	D1	Calprotectin inhibits <i>Candida albicans</i> penetration of oral epithelial cells
Salad, Mohammed	D1	Endothelial cells can form capillary like structures in the presence of osteoblasts
Tu, Lam	D1	Hygroscopic Expansion in a Tooth restored with a Resin Modified Glass Ionomer
Chalgren, Robert	D2	Shear bond strength of an esthetic orthodontic bracket upon treatment variation
Larson, Matthew	D2	Three-Dimensional Examination of Occlusal Stability in 2-Week Clinical Study
Soderholm, Andrew	D2	Assessment of Facial Proportions by 3D and 2D Photography versus Direct Measurement
Barsness, Sarah	D3	Ability of Humans with Normal Touch Sensation to Detect Bumps
Grossman, Tracy	D3	Visualization of Bacterial Invasion from Biofilm into Epithelial Cells
Johnson, Jeremy	D3	Familial Gigantiform Cementoma: Gene Profile using Microarray Analysis

**Projects Completed in 2007**

Presenter	Class	Poster title
Berkseth, Christie	D1	Tooth Loss Patterns in a Clinic Population
Nerness, Andrew	D1	Osteoblast Differentiation on PCL and PCL/HA Scaffold Materials
Remakel, Jeff	D1	Do Men and Women Perceive Oral Health Differently?
Spaude, Mark	D1	Proportions of the Lower Facial Third and Facial Esthetics
Ugai, David	D1	Dental Handpiece Force Transducer for Measuring Cutting Force
Wolff, Ryan	D1	Twisted Gastrulation Regulates Apoptosis in the Mandibular Arch in Mice
Xu, Alexis	D1	Dental Care Access in Urban and Rural Minnesota Nursing Homes
Bowers, Megan	D2	Characterizing PU.1 and Nr1's Interaction During Osteoclast Differentiation
Horton, Heather	D2	Technique Comparison for Efficient Orthodontic Tooth Measurements Using Digital Models
Jenders, James	D2	HIV-1 Infection Promotes Invasion of <i>Candida albicans</i> into Oral Keratinocytes
Lee, Mike	D2	Polymerization Shrinkage and Hygroscopic Expansion Effects of a Resin-Modified Glass Ionomer Restorative
Matilla, Nick	D2	Investigating Invasion from Oral Biofilm Using the Calgary Biofilm Device
Robison, Nathan	D2	Online, Interactive Learning Environments for Students with Differing Learning Styles
Seime, Anna	D2	Activation of NK-1 Receptors in the Rostral Ventromedial Medulla Produces Heat Hyperalgesia

Mentor	College	Abstract presented at
Herzberg	SOD	Midwest 2006
Gaffney	SOD	Midwest 2006
Herzberg	SOD	Midwest 2006
Simone	SOD	Midwest 2006
Jardine	SOD	Midwest 2006
Thomas	MS	Midwest 2006
Hamamoto	SOD	Midwest 2006
Rudney	SOD	Midwest 2006, AADR 2006
Herzberg	SOD	Midwest 2006
Tantbiojn	SOD	Midwest 2006
Beiraghi	SOD	Midwest 2006, AADR 2006
Larson	SOD	Midwest 2006, AADR 2006
Combe	SOD	Midwest 2006
Mansky	SOD	Midwest 2006
Hamamoto	SOD	Midwest 2006
Gopalakrishnan	SOD	Midwest 2006
Tantbirojn/versluis	SOD	Midwest 2006
Kwon	SOD	Midwest 2006
Ahmad	SOD	Midwest 2006

Mentor	College	Abstract presented at
Mansky	SOD	Midwest 2007
Gopalakrishnan	SOD	Midwest 2007
Herzberg	SOD	Midwest 2007
Herzberg	SOD	Midwest 2007, Hinman
Versluis	SOD	Midwest 2007
Herzberg	SOD	Midwest 2007, Hinman
Ahmad	SOD	Midwest 2007
Tantbirojn/versluis	SOD	Midwest 2007
Combe	SOD	Midwest 2007
DeLong/Pintado	SOD	Midwest 2007
Larson	SOD	Midwest 2007
Simone	SOD	Midwest 2007
Rudney	SOD	Midwest 2007
Koutlas	SOD	Midwest 2007

Mentor	College	Abstract presented at
Michaowicz	SOD	Midwest 2008
Ahmad	SOD	Midwest 2008
John	SOD	Midwest 2008
Miller	SOD	Midwest 2008
Pintado/Delong	SOD	Midwest 2008, IADR 2008
Petryk	MS	Midwest 2008
Shuman	SOD	Midwest 2008
Mansky	SOD	Midwest 2008
Larson	SOD	Midwest 2008
Ross	SOD	Midwest 2008
Versluis	SOD	Midwest 2008, Hinman
Rudney	SOD	Midwest 2008
Anderson	SOD	Midwest 2008
Simone	SOD	Midwest 2008

Summer Research Projects, Mentors, and Presentations, 2008-2011

Tu, Lam	D2	Potential Risk Factors of Bisphosphonate Related Osteonecrosis of the Jaws
Vo, Katherine	D2	Prevalence of Medical Problems in a Dental School Patient Population

Basi	SOD	Midwest 2008, Hinman
Hamamoto/Rhodus	SOD	Midwest 2008, IADR 2008

**Projects Completed in 2008**

Presenter	Class	Poster title
Barthold, Jacob	D1	Comparative Image Analysis of Spatial Compartments of Lymph Nodes In Each Stage of HIV
Bulat, Maria	D1	Purification and expression of the RNA binding proteins TTP and CUGBP1
Duenes, Sara	D1	Forced Swim Test Increases pCREB Expression in Rat Brainstem
Johnson, Daniel	D1	BMP2 regulation of osteoclast fusion gene, DC-STAMP
Kolts, Robert	D1	Veilo-Cardio-Facial Syndrome: a Common and Complex Syndrome
Nygaard, Laura	D1	Interactions of Streptococcus sanguinis cshABC mutants with human platelets explored
Priess, Matthew	D1	Porphyromonas gingivalis Induces Low-birth Weight in Periodontal Bone-loss Resistant Mice
Vu, Hung	D1	Cell Lysis-Independent DNA Release from Streptococcus sanguinis and Streptococcus gordonii
Jarnot, Nathan	D2	Intranasal lidocaine decreases brainstem c-fos by blocking trigeminal nerve excitability
Lechner, Zach	D2	Comparison of Cleft and Noncleft Patients using Cone-Beam CT
Mensing, Heather	D2	Feasibility of explant system to study mandibular development ex vivo
Nelson, Shivan	D2	Effects of HIV-1 on TERT-2 Cell Resistance to Invasion by Candida albicans
Nerness, Andrew	D2	A Cross-Sectional CT Classification of Alveolar Bone for Implant Planning
Reardon, Nicole	D2	Characterizing HDAC3 and Mitf's Interaction During Osteoclast Differentiation
Spaude, Mark	D2	Quantification of Open Gingival Embrasures in Post Treatment Orthodontic Patients
Sudit, Geoff	D2	Information-Seeking and Decision-making Preferences among Adolescent Orthodontic Patients
Turritin, Ashley	D2	Orthodontic Bracket Modification to Inhibit Enamel Demineralization
Voegel, Jenna	D2	ScaA Does Not Mediate Attenuation of Fusobacterium Nucleatum-Induced Interleukin-8 Production
Vo, Katie	D3	Effect of cements on demineralization adjacent to orthodontic brackets

Mentor	College	Abstract presented at
Schacker	MS	Midwest 2009
Sternjohn	MS	Midwest 2009
Bereiter	SOD	Midwest 2009
Beiraghi	SOD	Midwest, AADR, IADR 2009
Frey	MS	Midwest, Hinman 2009
Gopalakrishnan	SOD	Midwest 2009
Islam	SOD	Midwest, AADR, IADR 2009
Petryk	MS	Midwest 2009
Herzberg	SOD	Midwest, AADR, IADR 2009
Ahmad	SOD	Midwest, AADR, IADR 2009
Zhang	SOD	Midwest, Hinman 2009
Costalonga	SOD	Midwest, AADR, IADR 2009
Mansky	SOD	Midwest 2009
Beyer	SOD	Midwest 2009
Miller	SOD	Midwest 2009
Larson	SOD	Midwest, AADR, IADR 2009
Rudney	SOD	Midwest 2009
Kreth	SOD	Midwest 2009
Versluis	SOD	Midwest 2009

**Projects Completed in 2009**

Presenter	Class	Poster title
Beyer, Kayla	D1	Twisted Gastrulation Regulation of BMP Signaling in Osteoclasts
Brooks, Michael	D1	Surface Energy of Titanium Biofunctionalized with Elastin-like Recombinant BioPolymers
Desai, Keta	D1	Role of Rostral Ventromedial Medulla in Facilitation of Pain Transmission
Lentz, Kathleen	D1	Role of Neurokinin-1 Receptors in the RVM on Descending Modulation of Acute Pain and Persistent Hyperalgesia
Nedrelow, David	D1	Osteoblast Response on Titanium Biofunctionalized with Elastin-like Recombinant Biopolymers
Omlie, James	D1	Copy Number Variations and Phenotypic Variability in Twisted Gastrulation Mutant Mice
Phillips, Robert	D1	A longitudinal study of student knowledge of and attitudes towards dental therapy: A preliminary dental student comparison
Strand, Eric	D1	The Role of Rim13 in <i>C. albicans</i> pH Adaptation
Vidican, Cleo	D1	Developing a Less Invasive Method of Characterizing Alveolar Bone Loss in Mice
DeRocher, Mark	D2	Incidence of Occult Pathology in Orthodontic Diagnostic CBCT Scans
Gaalaas, Lars	D2	Fractal Analysis of CBCT Images to Detect Age-related Bone Changes
Giltner, Josh	D2	OHIP-5 Score Reliability and Validity in General Dental Practice
Penaz, Brandon	D2	Two-hybrid Screening of BCL6 Corepressor with E8.5 Mouse Cardiopulmonary Library
Schmidt, Sam	D2	Diagnostic Utility of Labial Salivary Gland Biopsy in Sjogren's Syndrome
Traut, Alaina	D2	Does the Five-Factor Personality Theory Have a Role to Play in Understanding TMD Etiology and Treatment?
Upgaard, Rachel	D2	Focus Score and Whole Unstimulated Salivary Flow in Sjogren's Syndrome

Mentor	College	Abstract presented at
Mansky	SOD	Midwest, Hinman 2010
Aparicio	SOD	Midwest, AADR 2010
Simone	SOD	Midwest, AADR 2010
Simone	SOD	Midwest 2010
Aparicio	SOD	Midwest, AADR 2010
Petryk	MS	Midwest 2010
Born	SOD	Midwest 2010
Wolf	SOD	Midwest 2010
Costalonga	SOD	Midwest 2010
Pliiska	SOD	Midwest, AADR 2010
Islam	SOD	Midwest, AADR 2010
Rindal	HP	Midwest, AADR 2010
Wamstad	MS	Midwest, Hinman 2010
Rhodus	SOD	Midwest, AADR 2010
Morrow	SOD	Midwest 2010
Hughes	SOD	Midwest, AAOMS 2009

Summer Research Projects, Mentors, and Presentations, 2008-2011

**Projects Completed in 2010**

Student	Class	Poster title	Mentor	College	Abstract presented at
Augustson, David	D1	Does Drinking Caffeinated Soft-Drink Cause Short-Term Oral Dryness?	Hildebrandt	SOD	Midwest, IADR 2012
Bednar, Joshua	D1	Association Between Oral Health and General Health Measures in Reared-apart Twins	Michalowicz	SOD	Midwest 2011
Burbach, Nathan	D1	Identification of highly conserved glycosylation sites in mTWSG exon 3	Petryk	MS	Midwest 2011
Castleberry, Kevin	D1	Calprotectin Interacts and Binds with Cell Cycle Associated Protein Phosphatase 2a (Pp2a)	Khamminavong	SOD	Midwest 2011
Cortez, Paul	D1	Cannabinoid Receptors Attenuated Hyperalgesia In A Cisplatin Model of Neuropathy	Simone	SOD	Midwest, IADR 2011
Han, Xu	D1	Novel Oxime Ether Transfection Reagents for Salivary Gland Cells	Gorr	SOD	Midwest, IADR 2011
Helal, Salma	D1	Exploring the Role of the Head-Tail Connector in Bacteriophage f29	Jardine	SOD	Midwest 2011
Kuo, Claire	D1	The effect of Twisted Gastrulation (TWSG1) on Meckel's cartilage formation	Petryk	MS	Midwest, Hinman 2011
Rau, Allan	D1	Quality of Clinical Documentation- Can we use it for outcomes research?	Engelstad	SOD	Midwest 2011
Song, Jonathan	D1	Agglutinating ability of PSP and PSP peptide in saliva	Gorr	SOD	Midwest, IADR 2011
Walker, Amber	D1	Predictors of Persistent Post-surgical Pain: A Systematic Review and Meta-Analysis	Nixdorf	SOD	Midwest 2011
Holmberg, Kyle	D2	Antimicrobial-Peptide Biofunctionalized Titanium for Dental Implants	Aparicio	SOD	Midwest, IADR 2011
Koivisto, Tyler	D2	An Evaluation of Over 5,500 Radiolucent Jaw Lesions	Bowles	SOD	Midwest, IADR 2011
Larson, Chad	D2	Micro-CT Observed Segmental Demineralization in Bovine Enamel	Fok	SOD	Midwest, IADR 2011
Lentz, Kate	D2	Role of RVM Neurokinin-1 Receptors on Hyperalgesia but not Analgesia	Simone	SOD	Midwest, IADR, Hinman 2011
Lund, Alex	D2	Tri-Dimensional Measurement of Crestal Alveolar Bone in Mice	Costalunga	SOD	Midwest, IADR 2011
Midtling, Matt	D2	Retrospective clinicopathological study of 1781 odontogenic tumors	Gopalakrishnan	SOD	Midwest 2011
Nedrełow, Dave	D2	Fabrication of Porous Scaffold with Carbon Nanotube using Layer-by-Layer Assembly	Seong	SOD	Midwest, IADR 2011
Reilland, Matt	D2	A Demographic Study of Intraoral Malignancies in Minnesota from 1993-2008	Koutlas	SOD	Midwest 2011
Reopelle, Ryan	D2	Current Evidence: Crown versus Direct Restoration to Treat Cracked Tooth	Rindal	HP	Midwest, IADR 2011
Seubert, Brandon	D2	Dental Literacy Impact on Treatment Decision Making and Information Seeking	Skaar	SOD	Midwest, IADR 2011

**Projects Completed in 2011**

Student	Class	Poster title	Mentor	College	Abstract presented at
Capp, Michael	D1	Effect of TWSG1 and BMP7 on Mammary Cell Migration	Petryk	SOD	Midwest, AADR 2012
Hillstrom, Ashley	D1	Differential ERα and c-Fos Immunoreactivity between Male and Female Rats	Bereiter	SOD	Midwest, Hinman 2012
Kern, Marissa	D1	SspA carboxyl-terminal peptide regulates adhesion expression in <i>S. gordonii</i>	Herzberg	SOD	Midwest, AADR 2012
Kroke, Amber	D1	Effects of PSP-Derived Antimicrobial Peptides on <i>Enterococcus faecalis</i> Conjugation	Gorr	SOD	Midwest, AADR 2012
McShane, Colleen	D1	The Effects of URB597 in a Model of Cisplatin-Induced Hyperalgesia	Simone	SOD	Midwest, AADR 2012
Weaver, Andrew	D1	Volumetric Assessment of Oral Microcosm Biofilms Grown on Resin Composites	Rudney/Jones	SOD	Midwest, AADR 2012
Yu, Matthew	D1	Producing a pMHCII tetramer to detect <i>Porphyromonas ainalis</i> -specific CD4 <sup>+</sup> T-cells	Costalunga	SOD	Midwest, AADR, Hinman 2012
Zastrow, Stephanie	D1	Electrochemical and Corrosion Properties of Ion-Implanted Orthodontic Wires	Aparicio/Fok	SOD	Midwest, AADR 2012
Augustson, David	D2	Novel combination of clinical 3D data sets to assess periodontal changes during orthodontic treatment	Larson/Skaar	SOD	Midwest 2012
Burbach, Nathan	D2	SFRP-2 is a positive regulator of osteogenesis in murine BMSCs	Robie (NIDCR)	NIDCR	Midwest, AADR 2012
Carlson, Brianna	D2	Effects of an Educational Grant on Undergraduate Implant Clinical Experience	Olin	SOD	Midwest 2012
Han, Xu	D2	Role of GTPases in Invadopodia-mediated Invasion of Extracellular Matrices	Yamada (NIDCR)	NIDCR	Midwest, AADR 2012
Kersten, Elias	D2	Temporal summation of intraoral pressure-pain using a modified MRI-compatible device	Nixdorf	SOD	Midwest, ASDA 2012
Kuo, Claire	D2	Changes in Osteoclast Differentiation Expression Profile in BMPRII Deletion Mutants	Gopalakrishnan	SOD	Midwest 2012
Nguyen, Patricia	D2	Fabrication of Bone Scaffold using Polycaprolactone and Carbon Nanotubes	Seong	SOD	Midwest 2012
O'Keefe, Chelsea	D2	Position of mandibular foramen in relation to age and sex	Bowles	SOD	Midwest 2012
Pumper, Jeffrey	D2	Opioids Reduce Leukocyte Migration in vitro	Koodie	MS	Midwest, AADR 2012
Schmidt, Carter	D2	Development and Optimization of a Lectin-based Oral Cancer-Screening Solution	Kademani	SOD	Midwest 2012
Jonathan Song	D2	Horse latherin, related to salivary hPSP, lacks antimicrobial activity	Gorr	SOD	Midwest, AADR 2012
Wattimena, Allan	D2	Invasive Dental Procedure Prevalence and Vascular Events	Skaar	SOD	Midwest, AADR 2012
Ziegler, Erik	D2	Measurement of Bone Volume Changes Using Cone-Beam Computed Tomography	Costalunga	SOD	Midwest, AADR 2012

**Projects Completed in 2012**

Student	Class	Poster title	Mentor	College	Abstract presented at
Breitenfeldt, Cassie	D1	Temporal summation of human gingival pressure-pain is frequency-dependent	Nixdorf	SOD	Midwest, IADR 2013
Cooper, Ryan	D1	Developing a Web-Based Dental Training Tool: An Analysis of the Content of Three Electronic Dental Records	Rindal/Rush	HP	Midwest, IADR 2013
Engler, Sara	D1	Feasibility of Collecting Prevalence of Incomplete Tooth Fracture in a Large Group Dental Practice	Johnson	HP	Midwest 2013
Hacker, Jessica	D1	Proteomic Analysis of Cariogenic Biofilms With and Without Sucrose Pulsing	Rudney	SOD	Midwest 2013
Hoganson, Rachel	D1	Phosphorylation of Connexin-43 hemichannels following <i>Porphyromonas gingivalis</i> invasion	Herzberg	SOD	Midwest 2013
Mittelsteadt, Michael	D1	The salivary protein-derived peptide GL13K kills <i>Pseudomonas aeruginosa</i> clinical isolates	Gorr	SOD	Midwest, IADR 2013
Mulligan, Miranda	D1	Smurf1 Modulates BMP Signaling in HNSCC Stem Cells	Khamminavong	SOD/CVM	Midwest, IADR 2013
Wesley, Abigail	D1	Cognitive Depletion Affects Dental Students' Ability to Develop Psychomotor Skills	Adarve/Marsolek	SOD	Midwest, IADR 2013
Diggs, Tanner	D2	Influence of Silver Nanoparticle Addition on Composite-Dentin Bond Strength	Fok/Jones	SOD	Midwest 2013
Gaalaas, Sara	D2	Biomechanical Evaluation of Rat Mandibles affected by Bisphosphonate Treatment	Gopalakrishnan	SOD	Midwest, IADR 2013
Kern, Marissa	D2	SspA carboxyl-terminal peptide regulates adhesion expression in <i>S. gordonii</i>	Herzberg	SOD	Midwest 2013
Kjellgren, Bethany	D2	Antibacterial Properties of Universal Dental Adhesive Infused with Silver Nanoparticles	Jones	SOD	Midwest 2013
McShane, Colleen	D2	Anti-hyperalgesic and Neuroprotective Effects of Pioglitazone in a Model of Cisplatin-Induced Hyperalgesia	Simone	SOD	Midwest, IADR 2013
Mohammed, Ibrahim	D2	Diphtheria Toxin-induced Ablation of Dendritic Cells Leads to Neutrophilia	Costalunga	SOD	Midwest, IADR 2013, Hinman 2013
Regan Anderson, Michael	D2	CSPG4 enhances growth, survival and drug resistance in melanoma cells	Colvin-Wanshura	MS	Midwest, IADR 2013, Hinman 2013
Schuweiler, David	D2	Investigating Twisted Gastrulation in Head and Neck Squamous Cell Carcinoma	Petryk	MS	Midwest, IADR 2013
Shaker, Zainah	D2	BMP2 effects MKP-1 Expression and Phosphorylation During Osteoclast Differentiation	Mansky	SOD	Midwest 2013
Weaver, Andrew	D2	Mechanisms of E-cadherin Turnover During Developmental Epithelial-Mesenchymal Transition	Yamada (NIDCR)	NIDCR	Midwest, IADR 2013
Zastrow, Stephanie	D2	Stability of a New Antimicrobial-Peptide Coating for Dental Implants	Aparicio	SOD	Midwest, IADR 2013

**Projects Completed in 2013**

Student	Class	Poster title	Mentor	College	Abstract presented at
---------	-------	--------------	--------	---------	-----------------------

Summer Research Projects, Mentors, and Presentations, 2008-2011

Barber , Shakeyla	D1	Chemotherapy Induced Peripheral Neuropathy in a Mouse-Model	Simone	SOD	Midwest 2014
Janes , Lauren	D1	SSRI usage associated with dental fractures via movement disorders	Rush/Rindal	HP	Midwest, AADR 2014
Kohler, Dan	D1	GL13K kills <i>Pseudomonas aeruginosa</i> in saliva but not artificial sputum	Sven	SOD	Midwest, AADR 2014
Marston , Lauren	D1	Regulation of Neural Crest Development by Paladin Targets	Roffers-Agarwal	MS	Midwest, AADR 2014
Miller , Brent	D1	Temporomandibular Joint Pain Stimulation Increases Brainstem Estradiol Production in Rats	Bereiter	SOD	Midwest 2014, Hinman 2014
Paz , Justin	D1	Mechanism of anadamide evoked attenuation of cisplatin neurotoxicity	Khasabova	SOD	Midwest, AADR 2014
Petersen , Karl	D1	Expression Profiling of Class II Histone Deacetylases during Murine Osteoclastogenesis	Mansky/Jensen	SOD	Midwest 2014, Hinman 2014
Thieu , Kathleen	D1	Langerhans cells do not mediate bone loss in murine periodontitis	Costalonga	SOD	Midwest, AADR 2014
Yao , Xu	D1	Inhibition of 2-AG hydrolysis attenuates cisplatin-evoked hyperalgesia	Simone	SOD	Midwest, AADR 2014
Belling, Erin	D2	Utilization of the Minnesota Prescription Drug Monitoring Program by Dentists	Riggs	SOD	Midwest 2014
Chada, Revanth	D2		Kulkarni	NIDCR	
Ditch, Dustin	D2	Orthodontic Bracket Debonding and Adhesive Remnant Cleanup	Sudit	SOD	Midwest 2014
Jabs, Daniel	D2	In Vitro Characterization of a Novel Dental Implant Bone Cement	Seong	SOD	Midwest, AADR 2014
Lung, Christine	D2	Peptide Release from Biofunctional Dental Coatings Mediated by MMP-9 activity	Aparicio	SOD	Midwest, AADR 2014
Meyer, Paul	D2	Immediate Delivery of Retainers after Comprehensive Orthodontic Treatment	Mueller	SOD	Midwest, AADR 2014
Mullikin, Alex	D2	Co-immobilization of Antimicrobial and MMP9-Cleavable Peptides for Dental Implants	Aparicio	SOD	Midwest, AADR 2014
Pham, Andrew	D2	Effects of Morphine on Infective Epithelial Barrier Function	Koodie	MS	Midwest 2014
Pries, Heather	D2	Gingipain-independent killing of <i>Porphyromonas gingivalis</i> by D-amino-acid antimicrobial peptide D-GL13K	Gorr	SOD	Midwest, AADR 2014
Tommerdahl, Lissa	D2	Dental Literacy Impact on Decision Making and Information Seeking Preferences	Skaar	SOD	Midwest, AADR 2014
Unger, Alexandra	D2	Oral epithelial Connexin43 prevents alveolar bone loss in murine periodontitis	Ross/Costalunga	SOD	Midwest, AADR 2014
Wesley, Abigail	D2	Cognitive Depletion Impairs Learning of Handpiece Skills in Dental Students	Adarve/Marsolek	SOD/PSY	Midwest, AADR 2014

**Projects Completed in 2014**

Student	Class	Poster title	Mentor	College	Abstract presented at
Ali, Mohamed	D1	Investigation of expression of S100A8/A9 (Calprotectin) and Casein Kinase 2 (CK2) in Oral Squamous Cell Carcinoma cells	Prokopis/Herzberg	SOD	Midwest 2015
Allman, Daniel	D1	Gingival Cellular Infiltrate in a Murine Model of Periodontitis	Costalonga	SOD	Midwest, IADR 2015
Caldwell, Ailita	D1	Function of the SGO_1180/1181/1182 Two-component System Operon of <i>Streptococcus gordonii</i>	Hall/Herzberg	SOD	Midwest, IADR 2015
Hairani, Mehrdad	D1	<i>In Vitro</i> Analyses of a Novel Implant Support Compound	Seong	SOD	Midwest, IADR 2015
Lau, Andrew	D1	Accuracy of shrinkage stress measured with model Class-I composite restorations	Fok	SOD	Midwest, IADR 2015
Lederman, Ari	D1	Myosin X Directs Osteoclast Fusion and Resorption in Vitro	K. Mansky	SOD	Midwest 2015
Peterson, Tara	D1	The Mutagenic Nucleoside 5-Azacytidine Is Active Against Drug-Resistant HIV As Well As Multiple Types and Subtypes of HIV	L. Mansky	SOD	Midwest 2015
Sanchez, Miguel	D1	Intraperitoneal cisplatin injection causes hypoesthesia in naïve mice	Simone	SOD	Midwest, IADR 2015
Carvalho, Christopher	D2	Data validation examining the relationship between OSA and premolar extraction	Rindal	HP	Midwest, IADR 2015
Hemann, Mitchell	D2	Effect of Caffeine on Patterns of Soft Drink Consumption	Hildebrandt	SOD	Midwest 2015
Jurovich, Jessica	D2	Cytocompatibility and antimicrobial effect of multifunctional peptide coatings	Aparicio	SOD	Midwest, IADR 2015, Hinman 2015
Leuer, Amelia	D2	A Microbiological Study Investigating Polyphosphate Accumulating Organisms in Oral Biofilms	Jones	SOD	
Orech, Tara	D2	Surface Charge, not Hydrophobicity, Affects GL13K Activity Against Gram-Positive Bacteria	Gorr/Aparicio	SOD	Midwest, IADR 2015
Schneider, Benjamin	D2	Antibiotic Susceptibility and Biofilm Formation in <i>Enterococcus Faecalis</i>	Dale/Dunney	MS	Midwest 2015
Thieu, Kathleen	D2	The Association of TGFβ Expression with the Prevalence of Autoimmune Disease	Chen	NIDCR	Midwest, IADR 2015
VanLaecken, Nate	D2	Biofunctionalization of orthodontic appliances to prevent white spot lesions	Gruenheid	SOD	Midwest 2015
Weber, Audrey	D2	Career, Family, and the Future Dental Workforce	Born	SOD	Midwest, IADR 2015
Yang, Jane	D2	Development of a Multidimensional Oral Health Risk Assessment Tool for Use at the Phillips Neighborhood Clinic	Shuman	SOD	Midwest 2015
Zhou, Ken	D2	The involvement of Schwann Cells in Neuropathic Pain when treated with Cisplatin	Olson	SOD	Midwest 2015

**Projects completed in 2015**

Student	Class	Poster title	Mentor	College	Abstract presented at
Edwards, Jessica	D1	Fibrinogen Mediates Osteogenic Development from Human Induced Pluripotent Stem Cells	Kaufman/Kidwai	MS	Midwest, AADR 2016
Godejohn, Brianna	D1	Effect of BMPs 4, 6, and 7 on Osteoclast Differentiation	K. Mansky	SOD	Midwest, AADR 2016
Huxford, Ian	D1	Developing a Quantitative Analysis on the Handleability of Dental Composites	Fok	SOD	Midwest 2016
Kirkhoff, David	D1	Oral Bisphosphonate use and Incidence of Acute Alveolar Osteitis	Rindal	HP	Midwest, AADR 2016
Koehler, Krista	D1	Environmental Stress Exacerbates Neuropathic Pain	Olson	SOD	Midwest, AADR 2016
Moore, Nicholas	D1	Characterization of Aromatase Positive Cells in Trigeminal Spinal Nuclei	Bereiter	SOD	Midwest, AADR 2016
Nisley, Aaron	D1	COX-2 Inhibitors Prevent NK-1-Induced Hyperalgesia	Simone	SOD	Midwest 2016, Hinman
Odawa, Nima	D1	Regulation of Osteoclasts by Protein Kinase D2 (PRKD2) Signaling	K. Mansky	SOD	Midwest 2016
Penke, Danielle	D1	St-ELR Scaffolds Mineralized by Osteoblast Activity	Aparicio	SOD	Midwest, AADR 2016
Tu, Andy	D1	Improved pMHCII Tetramer Production to Detect Gingival CD4 <sup>+</sup> T cells	Costalonga	SOD	Midwest, AADR 2016, Hinman
Afwerke, Hannah	D2	Bioactive Coating for Orthodontic Appliances to Prevent White Spot Lesions	Gruenheid	SOD	Midwest, AADR 2016
Anderson, Kathryn	D2	Soda Drink Consumption Habits Among Adults with Varying Caries Activity	Hildebrandt	SOD	Midwest, AADR 2016
Cagle, Nathaniel	D2	Lip Growth from Age 3 to 14	Salazar	SOD	Midwest, AADR 2016
Clifford, John	D2	Antimicrobial and Antibiofilm Effects of N-Acetylcysteine on <i>S. mutans</i>	Jones	SOD	Midwest, AADR 2016
Ditch, Daniel	D2	Graduate Prosthodontics Crown and Denture Data Collection	Conrad	SOD	Midwest 2016
Heinlein, Taylor	D2	Engineering Nanopatterned Hybrid Surfaces by Biomimetic Mineralization of Elastin-like Recombinamer	Aparicio/Li	SOD	Midwest, AADR 2016
Larson, Elliot	D2	The Antimicrobial Peptide GL13K kills drug-resistant bacteria without causing resistance	Hirt	SOD	Midwest, AADR 2016
Sanchez, Miguel	D2	Pioglitazone eliminates cisplatin-induced hypoesthesia	Simone	SOD	Midwest, AADR 2016
Schulte, Nicholas	D2	Impact of Dental Therapy in Minnesota – Part II	Riggs/Thoele	SOD/MnDH	Midwest, AADR 2016
Servais, Jerad	D2	Bone Fractal Analysis using CBCT in Patients with Impacted Canines	Salazar	SOD	Midwest, AADR 2016

**Projects completed in 2016**

Student	Class	Poster title	Mentor	College	Abstract presented at
Dennison, April	D1	Effect of Anti-bacterial Molecules on <i>Streptococcus gordonii</i> Adhesion Gene Expression	Herzberg/Hall	SOD	IADR 2017

Summer Research Projects, Mentors, and Presentations, 2008-2011

Dutt, Cameron	D1	Naming and Incentive Development for a Public Oral Health Initiative	Thoele	MnDH	IADR 2017
Helle, Taylor	D1	Regulation of breast tumor kinase (Brk) expression via stress pathways in breast cancer	Lange	MS	IADR 2017
Jordan, Cody	D1	Antimicrobial Peptide GL13K is Active in Saliva and Serum	Gorr	SOD	IADR 2017
Kim, Mason	D1	Magnetic Resonance Imaging of Flow within Pulp of Extracted Tooth	Gaalaas/Nixdorf	SOD	IADR 2017
Slama, Zachary	D1	Calprotectin regulates EGFR not VEGF-A/C or NGF expression in HNSCC	Herzberg/Argyris	SOD	IADR 2017
Vincent, Thomas	D1	Oral Health Beliefs, and Practices, and Utilization of Dental Services in select Towns in Northern Nigeria	Lopez/Self	SOD	IADR 2017
Wagner, Chad	D1	Contribution of Reactive Oxygen Species to Cisplatin-Induced Peripheral Neurotoxicity	Simone	SOD	IADR 2017
Yahnke, Michael	D1	Developing Hydrophobic Dental Adhesives for Class-V Restorations	Aparicio	SOD	
Yakovlev, Galina	D1	Differences across products marketed as "snus" in Sweden, US, and India	Stepanov	MS	Soc. For Rsch. in Nicotine and Tobacco 2017
Cisneros, Alejandro	D2	Association Between Periodontal Disease and Missing Teeth with Systemic Conditions	Wolff	SOD	IADR 2017
Delveaux, Kallie	D2	Oral Health Status of Older Adults In Minnesota	Thoele	MnDH	IADR 2017
Edgebraaten, Josh	D2	3-Dimensional Longitudinal Study of Maxillary Sinus Characteristics in Canine-Impacted Patients	Leon-Salazar	SOD	IADR 2017, Himan
Godejohn, Brianna	D2	Subcellular Localization of HDACs During Osteoclast Differentiation	K. Mansky	SOD	IADR 2017
Kirkhoff, David	D2	Dental Professionals' Decreased Opioid Prescribing for Third Molar Extraction	Rush/Rindal	HP	IADR 2017
Nisley, Aaron	D2	Is Offset Analgesia Impaired in Chronic Orofacial Pain Patients?	Moana-Filho	SOD	IADR 2017
Shnaydruk, Alex	D2	Antinociceptive Effect of Resolvin D1 on Bone Cancer Pain	Simone	SOD	IADR 2017, Himan
Sorensen, Jana	D2	Database Coverage of OHRQoL Information	John	SOD	IADR 2017
Springer, Robert	D2	Mechanical Properties of HIV-Infected and Tenofovir-Treated Bone	K. Mansky/Aparicio	SOD	IADR 2017
Tu, Andy	D2	Plasmacytoid dendritic cells and chemokine milieu in human cutaneous chronic-Graft-versus-Host-Disease	Mays	NIDCR	IADR 2017
Sanchez, Miguel	D3	Missing Teeth And Self-Reported Oral Parafunctions And Pain	Wolff	SOD	IADR 2017
Servais, Jared	D3	Maxillary Bone Volume Analysis using CBCT in Patients with Impacted Canines	Salazar	SOD	IADR 2017

Projects completed in 2017

Student	Class	Poster title	Mentor	College	Abstract will be presented at
Behinaein, Parnia	D1	Polyphosphate and Transcriptional Changes During Persister Formation in <i>Mycobacterium tuberculosis</i> .	Aagesen	MS	AAADR 2018
Counsell, Eva	D1	Comprehensive Quantitative Sensory Testing of TMD Patients and Controls	Moana-Filho	SOD	AAADR 2018
Cullinan, Kiana	D1	Impact of Two GCN5-Related Acetyltransferases on <i>Streptococcus Gordonii</i> Biofilms	Herzberg	SOD	AAADR 2018
Damodaran, Kishore	D1	In vitro Osmotic Swelling of the Periodontal Ligament	NedreLOW	SOD	AAADR 2018
Dye, Grant	D1	Ion Release and Antimicrobial Properties of Preventive Agents	Aparicio	SOD	AAADR 2018
Karels, Brandon	D1	Biomimetic Intrafibrillar Mineralization of Collagen Membranes with Strontium-Substituted Hydroxyapatite	Aparicio	SOD	AAADR 2018
McCullough, Austin	D1	Bactericidal Activity and In Vitro/Vivo Toxicity of Antimicrobial Peptide D-GL13K	Aparicio/Gorr	SOD	AAADR 2018
Morgan, Hannah	D1	R-Flurbiprofen Attenuates Hyperalgesia in a Model of Sickle Cell Disease	Simone	SOD	AAADR 2018
Schley, Hallie	D1	Targeting Activated Microglia During Chronic Pain	Olson	SOD	AAADR 2018
Bolger, Jordan	D2	Downregulation of CD44 Expression in HPV(+) Epithelial Dysplasias and HNSCC	Gopalakrishnan	SOD	
Cole, Grayson	D2	Periodontitis, Diabetes, and Smoking as Risk Factors in Implant Failure	Rush	HP	AAADR 2018
Kim, Mason	D2	MRI of Fluid Flow Inside Teeth using Custom Head Phantom	Gaalaas/Nixdorf	SOD	AAADR 2018
Steck, Patrick	D2	Role of LPXTG Proteins in Biofilm Formation of <i>S. gordonii</i>	Herzberg	SOD	AAADR 2018
Vincent, Sheba	D2	A community assessment of oral health knowledge, beliefs and behaviors of Lower Sioux youth in Minnesota: A Qualitative Study	Lopez	SOD	
Vincent, Thomas	D2	Impact of Acculturation On Oral Health Of Somali Refugees In Minnesota	Flynn	SOD	AAADR 2018
Wagner, Chad	D2	Effect Of An Opioid Prescribing Protocol On Provider Prescribing Behavior	Nadeau	SOD	AAADR 2018
Wang, Xue	D2	S100A8 and S100A9: HPV Targets in Intraoral Preneoplasia and HNSCC	Argyris	SOD	AAADR 2018
Whitehurst, Lauren	D2	Localization of Class II Histone Deacetylases throughout Osteoclast Differentiation	Jensen	SOD	
Yakovlev, Galina	D2	Investigating the effect of PEITC, a natural chemopreventive agent, on the tobacco carcinogen-induced DNA damage in oral cells	Stepanov	MS	AAADR 2018
Edgebraaten, Josh	D3	Longitudinal Study of Maxillary Subsinus Alveolar Bone in Canine-Impaction	Salazar	SOD	AAADR 2018