

*Even-numbered posters will present on Day 1 (Tuesday, October 10<sup>th</sup>) and odd-numbered posters will present on Day 2 (Wednesday, October 11<sup>th</sup>). Some presenters have requested to present outside of their assigned day and may choose to present on the alternate day.*

### **Poster Assignments**

- 1** Elizabeth Abe  
[elizabethabe831@gmail.com](mailto:elizabethabe831@gmail.com)  
*Unusual Clinical Presentation of Oral Lichen Planus*
- 2** Christian Ahearn  
[cpahearn@buffalo.edu](mailto:cpahearn@buffalo.edu)  
*A Streptococcus gordonii Adhesin Binds to Bacterial Cell Surface Sialic Acid Sugars*
- 3** Sarah Aitken  
[aitke032@umn.edu](mailto:aitke032@umn.edu)  
*Transcriptional Regulation of Antigen I/II Adhesins in the Oral Commensal Streptococcus gordonii*
- 4** Natalie Andras  
[andras.9@osu.edu](mailto:andras.9@osu.edu)  
*Functional Evidence from Gene Editing Verifies Ectomesenchymal Cementoblast Origin*
- 5** Tyra Avery  
[tavery2@uab.edu](mailto:tavery2@uab.edu)  
*The Ubiquitination Pathway is Involved in Chondrocyte Differentiation and Endochondral Ossification*
- 6** Rucha Bapat  
[ruchabap@usc.edu](mailto:ruchabap@usc.edu)  
*Investigating the Enamel Phenotype in Novel Ambn-IRES-Cre/Smad4<sup>fl/fl</sup> Mouse Model*
- 7** Evan Brooks  
[evan.brooks@cchmc.org](mailto:evan.brooks@cchmc.org)  
*Ciliary protein C2cd3 is required for the patterning of mandibular musculoskeletal tissues*
- 8** Anyelo Diaz  
[anyelo\\_diaz@student.uml.edu](mailto:anyelo_diaz@student.uml.edu)

*Characterization of initial immune response by Macrophages and Neutrophils, and their role in host-pathogen interactions*

- 9 Lisa Duncan  
[lisa.md.duncan@gmail.com](mailto:lisa.md.duncan@gmail.com)  
*Interrogation of 16p11.2 Region Gene Perturbation*
- 10 Cristiane Franca  
[mirandaf@ohsu.edu](mailto:mirandaf@ohsu.edu)  
*Perivascular Mural Cells Regulate Vascular Function in Stiff Cancer-Associated Tumor Microenvironments On-a-chip*
- 11 Qiman Gao  
[gao00422@umn.edu](mailto:gao00422@umn.edu)  
*Epigenetic Biomarkers for Chronic Painful Temporomandibular Disorder: A Pilot Study*
- 12 Shawn Hallett  
[shallett@umich.edu](mailto:shallett@umich.edu)  
*Deletion of Runx2 in Cranial Base Synchrondrosis Chondrocytes Causes Midfacial Hypoplasia*
- 13 Charles Holjencin  
[ceh206@musc.edu](mailto:ceh206@musc.edu)  
*Optimization of a Peptide Carrier for Improved Efficacy and Cell-Specificity*
- 14 Kei Katsura  
[kei.katsura@ucsf.edu](mailto:kei.katsura@ucsf.edu)  
*Connecting Neural and Tooth Development in Pediatric Neurodevelopmental Disorders*
- 15 Courtney Lucas  
[COL55@pitt.edu](mailto:COL55@pitt.edu)  
*Targeted Studies of Temporomandibular Joint Disorder (TMD): Immune System Surveillance Evasion Mechanism(s).*
- 16 Carly Martin Martin  
[carly.martin2@nih.gov](mailto:carly.martin2@nih.gov)  
*HAT/DESC proteases and their role in epithelial homeostasis in the oral cavity*
- 17 Cole Matrishin  
[colematr@buffalo.edu](mailto:colematr@buffalo.edu)  
*Phages are important unrecognized players in the ecology of oral pathogen*

*Porphyromonas gingivalis*

- 18 Brianyell McDaniel Mims  
[mcdanibr@musc.edu](mailto:mcdanibr@musc.edu)  
*Porphyromonas gingivalis* Invades Brain Microvascular Endothelial Cells  
and Impacts Glutamine Metabolism for Intracellular Survival
- 19 Claire Mills  
[millscb@uw.edu](mailto:millscb@uw.edu)  
*Unraveling Field Cancerization to Improve Early Detection and  
Recurrence Prevention in Oral Cancer*
- 20 Drashty Mody  
[drashty.mody@nih.gov](mailto:drashty.mody@nih.gov)  
*ZG16B expression is functionally critical in normal human exocrine cells*
- 21 Sasirekha Narayanasamy  
[sasirekha.narayanasamy@nih.gov](mailto:sasirekha.narayanasamy@nih.gov)  
*Resolving the N-terminal determinants underlying STIM2 activation by  
Molecular Dynamics Simulation*
- 22 Tiffany Nguyen  
[nguyentip@nih.gov](mailto:nguyentip@nih.gov)  
*Critical Role of Fibrinolysis in Hematopoietic Recovery After  
Myelosuppression*
- 23 Anh Tuan Nguyen  
[nguyean9@oregonstate.edu](mailto:nguyean9@oregonstate.edu)  
*Acid Corrosion at Interfacial Environment between Dental Material and  
Oral Bacteria with Electrochemical Sensor*
- 24 Amina Ogunlayi  
[aminasaibu@yahoo.com](mailto:aminasaibu@yahoo.com)  
*A TEN YEAR AUDIT OF ORAL ULCERATIVE LESIONS AT A TERTIARY  
FACILITY IN IBADAN, NIGERIA*
- 25 Cristina Paz  
[cristinapaz0911@gmail.com](mailto:cristinapaz0911@gmail.com)  
*Transcriptomic and histologic evaluation of the murine submandibular  
gland after radiation exposure*
- 26 Alexandra Peterson  
[amarie.peterson@ufl.edu](mailto:amarie.peterson@ufl.edu)  
*Characterization of a Novel Zinc Export System in *Streptococcus mutans**

- 27 Aline Petrin  
[aline-petrin@uiowa.edu](mailto:aline-petrin@uiowa.edu)  
*DNA methylation profiles of monozygotic twins discordant for orofacial clefts*
- 28 Carlos Pinero Robles  
[cjpinero@gmail.com](mailto:cjpinero@gmail.com)  
*Comparative Study on the Osteogenic Potential of Condylar Cells of the Goat TMJ.*
- 29 Thalyta Amanda Pinheiro Ferreira  
[thalytaamanda@yahoo.com.br](mailto:thalytaamanda@yahoo.com.br)  
*Increasing Non-classical Monocytes Reduces Osteoclastogenesis and Attenuates Periodontal Bone Loss*
- 30 Achamaporn Punnaitinont  
[achamapo@buffalo.edu](mailto:achamapo@buffalo.edu)  
*TLR7 activation of age-associated B cells mediates disease in a mouse model of primary Sjogren's disease*
- 31 Zhi Ren  
[zhiren@upenn.edu](mailto:zhiren@upenn.edu)  
*Selenomonas sputigena mediates spatial structure and biofilm virulence in vivo*
- 32 Flavia Saavedra  
[achamapo@buffalo.edu](mailto:achamapo@buffalo.edu)  
*Triggering gingival-resident antiviral T cells potentiates experimental periodontitis*
- 33 Ayse Sahan  
[asahan@ucsd.edu](mailto:asahan@ucsd.edu)  
*Spatial compartmentalization of mTORC1 to the nucleus to regulate transcription and impact nuclear Erk signaling*
- 34 PRERNA SEHGAL  
[PSEHGAL@USC.EDU](mailto:PSEHGAL@USC.EDU)  
*Role of Runx2 arginine methylation in functional interaction with its transcriptional co-factors*
- 35 Satoru Shindo  
[sshindo1@nova.edu](mailto:sshindo1@nova.edu)  
*Piezo1-Expressed on Osteoclasts Down-regulates RANKL-Induced Bone Resorption in Periodontitis*

- 36 Natalie Silver  
[silvern@ccf.org](mailto:silvern@ccf.org)  
*Personalized therapeutic mRNA nano-vaccines are effective across translational models of head and neck cancer*
- 37 Mairobys Socorro  
[mas624@pitt.edu](mailto:mas624@pitt.edu)  
*Phosphate changes protein-protein interactions between Osterix and Trps1 in mineralization-competent cells*
- 38 Logan Stone  
[ldstone@uab.edu](mailto:ldstone@uab.edu)  
*Fluorescent Anti-EGFR Imaging to Access OSCC Bone Invasion In Vivo*
- 39 Neeti Swarup  
[neetiswarup@g.ucla.edu](mailto:neetiswarup@g.ucla.edu)  
*Multi-Faceted Attributes of Salivary Cell-free DNA as Liquid Biopsy Biomarkers for Gastric Cancer Detection*
- 40 Caroline Szczepanski  
[szcz@msu.edu](mailto:szcz@msu.edu)  
*Utilizing self-complementary, multiple hydrogen-bonding site monomers to optimize adhesive networks*
- 41 HARIM TAVARES DOS SANTOS  
[harimtavaresdossantos@health.missouri.edu](mailto:harimtavaresdossantos@health.missouri.edu)  
*The Role of Tuft Cells in Salivary Gland Immunity*
- 42 Zachary Taylor  
[ztaylor@dental.ufl.edu](mailto:ztaylor@dental.ufl.edu)  
*Moonlighting Meta: The Main Carbohydrate Transporter in Oral Streptococcus can Alter Fitness and Virulence*
- 43 Cassandra Villani  
[cvilla61@uic.edu](mailto:cvilla61@uic.edu)  
*Transcriptome analysis indicates a stimulatory role of DMP1 in periodontal ligament stem cells and promotes osteoblast differentiation*
- 44 Rong (Rose) Wang  
[wangrong@umkc.edu](mailto:wangrong@umkc.edu)  
*Machine Learning Analysis of Microtensile Bond Strength of Dental Adhesives*
- 45 Darien Weatherspoon  
[dweatherspoon@umaryland.edu](mailto:dweatherspoon@umaryland.edu)  
*Epidemiologic Trends in Implant Prevalence among Older Adults in the*

*United States, 1999-2020*

- 46 Emma Wentworth Winchester  
[wentworth@uchc.edu](mailto:wentworth@uchc.edu)  
*Developmental cell type specific enhancers in craniofacial morphology and disease*
- 47 Guiqin Xie  
[guiqin.xie@howard.edu](mailto:guiqin.xie@howard.edu)  
*Overexpressed EGFR-targeted Immunotoxin Activates Tumor-intrinsic STING Signaling Against HNSCC*
- 48 Hyejin Yoon  
[hyejinyoon@umass.edu](mailto:hyejinyoon@umass.edu)  
*Developing an oral cavity interfacial tissue model for ex vivo co-culture with the oral microbiome*
- 49 Mingyi Zhang  
[mzhang58@usc.edu](mailto:mzhang58@usc.edu)  
*ARID1B maintains mesenchymal stem cell quiescence via BCL11B-mediated non-canonical Activin signaling*
- 50 Andrew Zhang  
[andrew.zhang@nih.gov](mailto:andrew.zhang@nih.gov)  
*Visualization of Anthrax Toxin Intoxication in Mice*
- 51 Nicole zur Nieden  
[nicolezn@ucr.edu](mailto:nicolezn@ucr.edu)  
*miR361 enhances neural crest osteogenesis via modulation of non-canonical Wnt signaling*