

Faculty and Students Presenting
At the 2025 American Association for Dental, Oral, and Craniofacial Research
Annual Meeting & Exhibition
March 12-15, 2025 - New York, NY

Wednesday, March 12

Symposium

11:10-11:30 a.m. | Room 405.2

Examining Oral Fungal and SARS-CoV-2 Interaction
Mary Ann Jabra-Rizk, PhD

2:20-2:45 p.m. | Room 405.2

Human Gene Variants Associated With Root Resorption
Vivek Thumbigere Math, BDS, PhD

Thursday, March 13

Symposium

1:35-1:55 p.m. | Room 405.2

Charting the Future: Innovations in Antibacterial Dental Resins for Restorative Dentistry
Mary Anne S. de Melo, DDS, MSc, PhD

2:35-2:55 p.m. | Room 405.2

Designing Pharmaceutical Electrospun and 3D-Printed Scaffolds for Regenerative Dentistry
Nileshkumar Dubey, BDS, PhD

Poster

11 a.m.-12:15 p.m. | Hall 3

Investigating ENPP1-Mediated CGAMP Roles in Cementogenesis
Hannah Bui, dental student

11 a.m.-12:15 p.m. | Hall 3

Ionic Liquid-Stabilized Zinc Oxide Quantum Dots to Enhance Adhesives Properties
Isadora Martini Garcia, DDS, MSc, PhD

11 a.m.-12:15 p.m. | Hall 3

Variability and Robustness in Enamel Hardness Testing: A Scoping Review
Mary Anne S. de Melo, DDS, MSc, PhD

11 a.m.-12:15 p.m. | Hall 3

Whole Transcriptome Single Cell Spatial Sequencing in Cleft Palate Model
Jeremie Oliver Piña, PhD, MS, MBA, dental student

3:15-4:30 p.m. | Hall 3

Photo-Induced Antibacterial Activity of δ -Feroxyhyte Nanoparticles Against Streptococcus Mutans
Tasneem Alluhaidan, BDS, doctoral student

3:15-4:30 p.m. | Hall 3

The Effects of Modified MSC-Derived Exosomes in Osteoimmunomodulation
Angela Hatton

3:15-4:30 p.m. | Hall 3

Bacterial Transcriptomes of Subgingival Biofilm in Young Grade-C Periodontics
Mary Elizabeth Aichelmann-Reidy, DDS

3:15-4:30 p.m. | Hall 3

Antibacterial and Remineralizing Bioglass-Containing Sealant to Prevent Root Caries
Michael D. Weir, PhD

Friday, March 14

Symposium

8-9:30 a.m. | Room 405.1

Pathways to Improve Teaching, Learning, and Practice through Scholarship
Se-Lim Oh, DMD, MS

Oral presentations

1:45-2 p.m. | Room 406.3

Molecular Mechanisms Underlying Dentinogenesis Imperfecta: Insights From the Oim Mouse
Priyam Himanshu Jani, BDS, MS, PhD

1:30-3 p.m. | Room 405.3

Enhancing Dental Education: Research, Self-Assessment, and Critical Thinking
Guadalupe Garcia Fay, DMD



2:15-2:30 p.m. | Room 405.3

A 3-year Assessment of an Implant Objective Structured Clinical Examination
Guadalupe Garcia Fay, DMD

2:45-3 p.m. | Room 405.3

A Phenomenological Study of Dental Students' Experiences With Service-Learning
Monica Schneider, DDS, MS

Poster

11 a.m.-12:15 p.m. | Hall 3

Novel Antimicrobial and Remineralizing Resin-Based Clear Aligner Attachment Orthodontic Materials
Heba Alqarni, BDS, MSD, doctoral student

11 a.m.-12:15 p.m. | Hall 3

Resident Perception of Patient Compliance Post-MI Training
Ina Griffin, DMD

11 a.m.-12:15 p.m. | Hall 3

Effectiveness of Posterior Ceramic Crowns: a Split-Mouth Retrospective Cohort Study
Sarah Rollor, DDS

11 a.m.-12:15 p.m. | Hall 3

Roles of ENPPI-Catalyzed ATP Hydrolysis in Cementogenesis
Ryan Yu

3:15-4:30 p.m. | Hall 3

Metformin Enhances VEGF Secretion in Hypoxic Dental Pulp Stem Cells
Kaylie Nguyen, DDS

3:15 p.m.-4:30 p.m. | Hall 3

Spatiotemporal Exosome Delivery via Microfluidics for Bone Repair
Priscilla Okyere

11 a.m.-12:15 p.m. | Hall 3

Preterm Birth and Low Birth Weight Are Associated With Adult Periodontal
Eung-Kwon Pae, DDS, MSc, PhD

3:15-4:30 p.m. | Hall 3

Ionic Liquid-Based 3D Printed Resin Suppresses Bacterial and Candida Infections
Masoumah Samir Qaw, BDS, MSD, doctoral student

11 a.m.-12:15 p.m. | Hall 3

Effectiveness of Posterior Ceramic Crowns: A Split-Mouth Retrospective Cohort Study
Sarah Rollor, DDS

Saturday, March 15

Oral Presentations

9:30-9:45 a.m. | Room 412

Impacts of Age, Diabetes, and Smoking on Periodontitis and Edentulism
Se-Lim Oh, DMD, MS

Posters

11 a.m.-12:15 p.m. | Hall 3

Novel Calcium-Phosphate Cement With Drug Delivery for Bioactive Pulp-Capping Applications
Mohammad Alenizy

11 a.m.-12:15 p.m. | Hall 3

Resin Coating With Antibacterial and Remineralization Properties to Combat Root Caries
Nader Almutairi, BDS, MS, doctoral student

11 a.m.-12:15 p.m. | Hall 3

Resin-Based Antibacterial Provisional Crown Coating to Suppress Biofilms
Ibrahim Ba-Armah

11 a.m.-12:15 p.m. | Hall 3

Preterm Birth and Low Birth Weight Are Associated With Adult Periodontal Disease
Eung-Kwon Pae, DDS, MSc, PhD

11 a.m.-12:15 p.m. | Hall 3

Health Disparity in Early Childhood Caries: Functional Perspectives of Microbiome
Kuei-Ling Hsu, DDS, MS

11 a.m.-12:15 p.m. | Hall 3

Potential Causal Role of Periodontitis in Inflammatory Bowel Disease
Vivek Thumbigere Math, BDS, PhD

3:15 -4:30 p.m. | Hall 3

Detection of Voids in Composite Restorations With Stationary Intraoral Tomosynthesis
Alan Gorny, dental student

3:15 - 4:30 p.m. | Hall 3

Impact of Theoretical Comprehension on Periodontal Instrumentation Skills
Oksana Mishler, RDH, MS, DHSc

