

**American Association for Dental, Oral and Craniofacial Research
Missouri Section Report Summer 2025**

Greetings from the Missouri Section Officers:

Position	First and Last Name	Term Starts	Term Expires
President	Kihoon Nam	05/15/2025	03/28/2026
President-elect	Sharon Gordon	03/15/2025	03/28/2026
Vice-President	Gary Weisman	03/15/2025	03/28/2026
Secretary/Treasurer	Richard Sherwood	01/11/2022	03/20/2027
Councilor	Gretchen Gibson	03/16/2024	03/20/2027

Following is an update on the activities of the group since April:

Conferences:

Dare2Change. Innovation-Driven Agrifood Business. Porto, Portugal (April 2nd 2025)

Saavedra SM, **Fernandes GVO**, Flores J, Barros AN. (2025) From winery waste to oral health: Grape stem polyphenols as a sustainable treatment for periodontal diseases. Poster Presentation S&EC 36.

Kansas City University Research Symposium (April 3rd-5th 2025)

Key note speakers:

- Russell Swerdlow, MD. Professor, Departments of Neurology, Cell Biology and Physiology and Biochemistry and Molecular Biology. Director of Kansas Alzheimer's Disease Research Center, its Neurodegenerative Disorders Program, and the Heartland Center for Mitochondrial Medicine. University of Kansas School of Medicine
- Barbara Binzak-Blumenfeld, PhD. Co-Head of the FDA & Biotechnology Section. Buchanan Ingersoll & Rooney
- Angela Slitt, PhD. Professor, Department of Biomedical and Pharmaceutical Sciences. University of Rhode Island
- Ehab Sarsour, MS, MSc, PhD. Associate Professor of Basic Sciences. Kansas City University
- Gretchen Gibson, MPH, DDS. Assistant Group Practice Leader/Associate Professor of Dental Medicine. Kansas City University
- Jeff Staudinger Ph.D. Professor of Pharmacology. Kansas City University
- Aaron Segal, PhD. Assistant Professor Bioethics. Kansas City University

315 KCU students, fellows, residents, alumni, and faculty presented their research during the symposium. Of the presenters, 246 were poster presentations, 25 were live podium presentations, and 44 were live-streamed virtual presentations. Student Doctors Keaton Wilczynski, Marion Mines, and Prithu Patel from KCU's inaugural class from the College of Dental Medicine (CDM), presented posters titled "Interprofessional Education Oral Screenings as Part of a Community Program", "THRIVE Wellness Program

Evaluation”, and “Dental Findings in Mandibular Symphysis Tessier 30 Cleft Case Report” respectively.

The 33rd Annual Research Symposium was also made accessible to the entire Missouri section virtually through a live stream.

EuroPerio11. Vienna, Austria (May 14th-17th 2025)

Fernandes GVO, Dennison G, Quayson H, Olabade O, Fernandes JCH. (2025) A New Algorithm/Tool (GF-PeDRA) Used to Achieve the Periodontal Risk Assessment, Diagnosis, and Prognosis: Clinical Approach and Application. Poster Presentation PC012.

Mosley G, Ross W, Martins BGdS, Fernandes JCH, **Fernandes GVO**. (2025) New Bacterial Groups (GF-MoR Complexes) Clustered According to the Condition/Disease: A Systematic Review Updating Socransky's Complexes. Poster Presentation PR294.

Santos NBM, **Fernandes GVO**, Marques T, Correia M, Correia A, Batalla Vazquez MP, Blanco-Carrion J. (2025) Treatment of Gingival Recession Type 1(RT1) Using a Coronally Advanced Flap With or Without Platelet-Rich Fibrin: A Randomized Clinical Controlled Trial With Digital Evaluation. PD008

International Association of Dental Research (IADR) General Session and Exhibition. Barcelona, Spain (June 22nd-28th 2025)

Jasmer KJ, Santos HTD, **Weisman GA**. (2025) Ion and Fluid Transport in Salivary Glands. Symposium.

Maslow F., **Nam K.**, Tavares Dos Santos H., **Baker OJ** (2025). AT-RvD1 Restores Salivary Epithelial Integrity Caused by Radiation Treatment. IADR Annual Meeting, Barcelona, Spain (June 22nd-28th).

Osorio R, **Nam K**, Maslow, F, Laura Sherwood, Andreadis ST, **Baker OJ** (2025). Development of Angiogenic Delivery Systems to Promote Salivary Gland Vascularization. IADR Annual Meeting, Barcelona, Spain (June 22nd-28th).

Weisman GA, Woods LT, Jasmer KJ, Forti KM, Rheinheimer BA, Limesand KH. (2025) Purinome signaling in mouse models of salivary gland dysfunction. Poster Presentation #2856.

New Funding:

R01 DE033416 National Institute of Dental and Craniofacial Research (NIH). **R.J. Sherwood** (Contact PI), H.S. Oh (Co-PI), K.M. Middleton (Co-PI), K.P. McNulty (Co-PI), M. Valiathan, D. Hatcher, D.L. Duren (co-I) Evidence-based optimization of treatment timing in the craniofacial complex. Total amount: \$2,751,343. Period May 1, 2025 - January 31, 2030.

Awards:

Fellow of the American Association for the Advancement of Science – **Richard J. Sherwood**, Ph.D., Fellow AAAS. Director of Craniofacial Research Center. Professor in Department of Pathology and Anatomical Sciences in the School of Medicine at the University of Missouri.

Publications:

Araujo LML, Prado WM, Zenóbio EG, Faverani LP, Souza JG, **Fernandes GVO**, Shibli JA. (2025) Effect of recombinant human Bone Morphogenetic Protein-2 (rhBMP-2) on the Volumetric Contraction of Post-Extraction Sockets: a Double-blinded Randomized Controlled Clinical Trial. *Quintessence Int*;56:364-374. doi: 10.3290/j.qi.b6184324

Baker OJ, Tavares H, **Nam K**. Current Basic and Pre-Clinical Research for Treatment of Radiation Therapy-Induced Hyposalivation. *JADA Foundational Sciences*. Vol 4, 2025, 100046.

Eeda V, Hedrick AF, Pranay A, Humphries KM, **Heidenreich E**, Awasthi V. (2025) Cardiotropic ligand-guided liposomes for myocardial delivery of atorvastatin in a mouse model of myocardial infarction. *Int J Pharm*. 681:125841. doi: 10.1016/j.ijpharm.2025.125841. Epub ahead of print. PMID: 40499599.

Fernandes GVO, Fernandes JCH. (2025) A New Algorithm/Tool Used to Achieve the Periodontal Risk Assessment, Diagnosis, and Prognosis (GF-PeDRA): A Clinical Study with 221 Patients. *Dent Med Probl*.

Fernandes GVO, Fernandes JCH. (2025) Revisiting and rethinking on staging (severity and complexity) periodontitis from the new classification system: A critical review with suggestions for adjustments and a proposal of a new flowchart. *Dent Med Probl*;62(2):371–391. doi: 10.17219/dmp/192121

Fernandes GVO, Martins BGS, Fernandes JCH, Gabet Y, Vizanski A. (2025) The Novel iIMPACT Tool and Quadrant Protocol for Peri-Implantitis: Surface Refinement and Re-Osseointegration Validated by SEM/EDS and Long-Term Clinical Case Reports. *Medicina*, 61, 1094. <https://doi.org/10.3390/medicina61061094>

Hobenu KA, **Adefuye AO**, Naab F, Nyoni CN. (2025) Clinical education in undergraduate nursing in Ghana: a gap analysis. *BMC Nurs*.24(1):562. doi: 10.1186/s12912-025-03167-w. PMID: 40390030; PMCID: PMC12087035.

Hobenu KA, **Adefuye AO**, Naab F, Nyoni CN. (2025) Strategies to enhance clinical teaching and learning in undergraduate nursing education: A scoping review. *PLoS One*. 20(6):e0305789. doi: 10.1371/journal.pone.0305789. PMID: 40493639; PMCID: PMC12151355.

Mendes ES, Nunes PS, Marcela, Silva YSK, Roy IC, Scarano A, Gehrke SA, **Fernandes GVO**, Resende RFB. (2025) Subcutaneous emphysema after bichectomy: a case report. *Annals of Stomatology*; 5(2).

Nam K, Tavares H., Maslow F., Davis D., Trump B., Venkata Y., **Baker OJ**. Activation of human FPR2 with AT-RvD1 Resolves Acute Sialadenitis in Vivo. <https://doi.org/10.1007/s10753-025-02320-6> *Inflammation* 2025.

Ribeiro ISS, Almeida JS, Iglesias JE, Kaizer M, Fernandes JCH, Inchingolo AM, Dipalma G, **Fernandes GVO**, Resende RFB. (2025) Herpetic Lesions Affecting the Oral Cavity - Etiology, Diagnosis, Medication, and Laser Therapy: A Literature Review. *J Basic Clin Dent*;2(1), 1-22.

Silva MM, Vozzo LM, Marques T, Veiga N, Fernandes JCH, **Fernandes GVO**, Couto P. (2025) Knowledge and Attitudes of Dentists and Dental Students in the Early Diagnosis of Oral Cancer: A Cross-Sectional Descriptive Observational Study. *Oral*. 5, 43. <https://doi.org/10.3390/oral5020043>

Woods LT, Jasmer KJ, Forti KM, Kearns A, **Weisman GA**. (2025) Salivary gland transcriptomic analysis and immunophenotyping in the IL-14alpha transgenic mouse model of Sjogren's disease. *Front Dent Med*. Vol 6.

We look forward to the new academic year and fall activities!

Sent on behalf of the AADOCR Missouri Section officers