

The Penn Periodontal Conference
Monday, July 28, 2025 - Friday, August 1, 2025

MONDAY, 7/28/2025

8:30 am	Welcome to Philadelphia and the Penn Periodontal Conference
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AM SESSION

1st Morning Session: Microbiology | Moderator: Jeff Ebersole

8:40 am	<i>Patricia Diaz</i> <i>"Oral and gut dysbiosis: part of the same axis?"</i>
9:00 am	<i>Juhi Bagaitkar</i> <i>"P. gingivalis and Immune Subversion"</i>
9:20 am	<i>Gina Lewin</i> <i>"Functional and genomic heterogeneity in oral microbe-microbe interactions"</i>
9:40 am	<i>Octavio Gonzalez</i> <i>"The role of Phospholipase A2-IIA in Oral Dysbiosis and Periodontal Disease"</i>
10:05 am	<i>Samantha King</i> <i>"Defining Mechanisms of Streptococcus mitis Adherence to Saliva"</i>
10:15 am	Coffee Break and Informal Discussions

2nd Morning Session: Systemic Disease | Moderator: Tom Van Dyke

11:00 am	<i>Dana Graves</i> <i>"scRNA-seq Analysis Reveals the Key Role of DCs and gd T-cells in Diabetes-exacerbated Periodontitis"</i>
11:20 am	<i>Francesco D'Aiuto</i> <i>"Targeting Periodontitis to Improve Systemic Health: Lessons from Host Response & Cardiometabolic Interventions"</i>
11:40 am	<i>Hatice Hasturk</i> <i>"Inflammation in Periodontal Tissues and Joints in Rheumatoid Arthritis"</i>
12:00 pm	<i>Effie Ioannidou</i> <i>"Unraveling the Periodontal-Kidney Connection: Enhancing Reporting and Methodological Standards, Refining Clinical Strategies, and Charting Future Directions"</i>
12:20 pm	Discussion
12:30 pm	Lunch (on your own) and Informal Discussions

PM SESSION

1st Afternoon Session: Pathogenesis | Moderator: Shannon Wallet

1:45 pm	George Hajishengallis <i>"Inflammatory memory and clonal hematopoiesis in periodontitis"</i>
2:05 pm	Flora Momen-Heravi <i>"Role of Double-Negative T Cells in Periodontitis and Systemic Co-Morbidities"</i>
2:25 pm	Chider Chen <i>"Adipose-Derived Cxcl12 Regulates Osteoclastogenesis for Bone Tissue Homeostasis"</i>
2:45 pm	Eric Larson – single cell analysis – hardware and bioinformatics <i>"Complex biology deciphered with spatial transcriptomics"</i>
3:05 pm	Alexandru Movila <i>"Metabolomic screening of periodontal lesions revealed the importance of ceramide"</i>
3:15 pm	Coffee Break and Informal Discussions

2nd Afternoon Session: Pathogenesis | Moderator: Jeff Ebersole

4:00 pm	Alpdogan Kantarci <i>"Host-microbe interactions in aging and periodontal disease"</i>
4:20 pm	Keith Kirkwood <i>"Immunoaging Myeloid Cell Dysfunction in Periodontal Disease"</i>
4:40 pm	Esra Sahingur <i>"Connecting Inflammation, Metabolism and Senescence in Periodontal Health-Pathogenesis to Intervention"</i>
5:00 pm	Luciana Shaddox <i>"Molar incisor pattern periodontitis: what have we learned so far and where are we going?"</i>
5:20 pm	Adjourn

TUESDAY, 7/29/2025

Keynote Lecture

8:30 am	John Seykora MD, PhD Single cell analysis of SCC and dermal inflammation
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AM SESSION

1st Morning Session: Microbiology | Moderator: Shannon Wallet

9:30 am	Flavia Teles <i>"Unraveling Clinical and Molecular Pathways of Periodontitis Progression"</i>
9:50 am	Gilad Bachrach <i>"Targeting Fusobacterium nucleatum Transforms Cold Tumors into Hot Ones"</i>
10:10 am	Nezar Al Hebshi <i>"Carcinogenic properties of Fusobacterium nucleatum strains isolated from patients with oral dysplasia"</i>
10:30 am	Wim Teughels <i>"From Microbial Myths to Clinical Milestones Through Probiotics"</i>
10:50 am	Discussion
11:00 am	Coffee Break and Informal Discussions

2nd Morning Session: Regeneration | Moderator: Tom Van Dyke

11:30 am	Thomas Diekwisch <i>"Peri-implantitis – A Periodontal Dilemma between Oxidative Stress and Epigenetic Dysregulation"</i>
11:50 am	George Kotsakis <i>"Titanium-assisted inflammasome activation is a peri-implant specific inflammatory mechanism perturbing peri-implant tissue homeostasis"</i>
12:10 pm	Flavia Pirih <i>"Unraveling Peri-Implantitis: Insights into Genetic Susceptibility, Systemic Conditions, and the Impact of Medications"</i>
12:30 pm	Giacomo Baima <i>"From Bench to Chairside: Targeting Cellular Senescence in Periodontal Regeneration"</i>
12:50 pm	Gill Diamond <i>"Mechanisms of Vitamin D-mediated Inhibition of Experimental Periodontitis"</i>
1:00 pm	Group Photo
1:15 pm	Lunch (on your own) and Informal Discussions

Tuesday Afternoon OFF

WEDNESDAY, 7/30/2025

Keynote Lecture

8:30 am	Pamela Robey
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AM SESSION

1st Morning Session: Systemic Disease | Moderator: Jeff Ebersole

9:30 am	<i>Modupe Coker</i> <i>Oral Microbiota and Brain Health: Unraveling the Biologic Link in People Living With HIV</i>
9:50 am	<i>Ryan Demmer</i> <i>“Periodontitis and Impaired Glucose Regulation: Establishing Causality and Identifying Effective Interventions in at Risk Populations”</i>
10:10 am	<i>Ann Griffen</i> <i>“Diabetes Reversal and the Oral Microbiome”</i>
10:30 am	<i>Yvonne Kapila</i> <i>“Of Mice and Men: Alzheimer’s Disease-Periodontitis Axis of Microbial/Inflammatory Mediators”</i>
10:50 am	<i>Artur Ostrysz</i> <i>“Influence of Dental Status and Systemic Health on Oral H₂S”</i>
11:00 am	Coffee Break and Informal Discussions

2nd Morning Session: Microbiology | Moderator: Shannon Wallet

11:30 am	<i>Richard Lamont</i> <i>"Why is <i>P. gingivalis</i> not a pathogen (most of the time)"</i>
11:50 pm	<i>Akintunde Emiola</i> <i>“Development of Porphyromonas gingivalis-specific inhibitors”</i>
12:10 pm	<i>Hansel Fletcher</i> <i>“Essentials for virulence regulation in oral anaerobes”</i>
12:30 pm	<i>Jan Potempa</i> <i>"Dirty Games Periodontal Pathogens Play with Neutrophils"</i>
12:50 pm	<i>Discussion</i>
1:00 pm – 2:00 pm	Lunch (on your own)

PM SESSION

Afternoon Session: Regeneration | Moderator: Tom Van Dyke

2:00 pm	Charles Sfeir <i>"Local Immunomodulatory Treatment of Periodontitis and Peri-implantitis"</i>
2:20 pm	Tomoki Maekawa <i>"Development of DEL-1 Inducers and Their Application to Bone Regeneration Drugs"</i>
2:40 pm	Ko Kang <i>"Fibroblast-derived alarmin controls acute inflammatory response via Treg activation during oral wound healing"</i>
3:00 pm	Joanna Smeeton <i>"Regeneration of joint tissues of the zebrafish craniofacial skeleton"</i>
3:20 pm	Discussion
3:30 pm	Break w/ Beer and Pretzels

Junior Investigator Presentations

	Moderator: Bushra Alghamdi
4:00 pm	Stacy Apollo <i>"Pathogen Synergy and Immune Subversion in Periodontitis"</i>
4:10 pm	Jong-Hyung Lim <i>"DEL-1: An Endogenous Senolytic Protein Preventing Senescence-Induced Bone Loss"</i>
	Moderator: Gundappa Saha
4:20 pm	Kendall S. Stocke <i>"Tyrosine Phosphorylation Links One-Carbon Metabolism and P. gingivalis Virulence"</i>
4:30 pm	Ye Ding <i>"The neuropeptide Galanin restores periodontal tissues after nerve injury"</i>
	Moderator: Tomoya Ueda
4:40 pm	Hamideh Afzali <i>"scRNAseq Identifies S100a11 As a Diabetic Wound Healing Target"</i>
4:50 pm	Ye Won (Stacy) Cho <i>"Multimodal Single-Cell Analysis of Periodontitis and Peri-Implantitis"</i>
	Moderator: Manuela Maria Viana Miguel
5:00 pm	Yasmin Teixeira Das Gracias <i>"Grade C Molar-Incisor Pattern Periodontitis Classification and Its Challenges"</i>
5:10 pm	Satoru Shindo <i>"Piezo1 Prevents Osteoclast-Mediated Inflammatory Bone loss in Periodontitis"</i>
	Moderator: Xudong Wang
5:20 pm	Ana Carolina Morandini <i>"Adenosinergic signaling and cellular resilience in periodontitis"</i>
5:30 pm	Quinn Easter <i>"CD38 Vasculopathy Underlies Peri-implantitis Pathogenesis"</i>

	Moderator: Davi Neto de Araujo Silva
5:40 pm	<i>Hardik Makkar</i> <i>“Unraveling the Mechanobiology of Inflammation in Periodontal Health and Disease”</i>
5:50 pm	<i>Yutaro Ando</i> <i>“Neutrophil–osteogenic cell crosstalk promotes inflammatory bone damage”</i>
	Moderator: Dam Som
6:00 pm	<i>Luciana Bartolomai</i> <i>“Downregulation of SPMs Receptors in Aged Periodontitis Subjects”</i>
6:10 pm	<i>Reem Bsoul</i> <i>“Interplay between Glycan, Fusobacterium nucleatum and Melanoma Progression”</i>
6:20 pm	<i>Aishwarya Rao</i> <i>“Exploring the Effects of Analgesia on Zebrafish Regeneration Models”</i>
6:30 pm	<i>Adjourn</i>

THURSDAY, 7/31/2025

AM SESSION

1st Morning Session: Pathogenesis | Moderator Jeff Ebersole

8:30 am	Kevin Byrd <i>"The Meta-architecture of Cell-Cell Communication in Chronic Periodontal and Peri-Implant Diseases"</i>
8:50 am	Drake Williams <i>"The human oral barrier in situ"</i>
9:10 am	Ana Caetano <i>"Neuroimmune interactions during oral mucosa development and disease"</i>
9:30 am	Stella Alimperti <i>"Regulation of the Epithelial Barrier"</i>
9:50 am	David Fraser <i>"Tissue Specification of Neutrophil States at the Oral Mucosal Barrier"</i>
10:10 am	Discussion
10:15 am	Coffee Break and Informal Discussions

2nd Morning Session: Pathogenesis | Moderator: Shannon Wallet

11:00 am	Marco Tizzano <i>"Activation of the bitter taste signaling pathway in gingival cells and macrophages evokes in anti-microbial and anti-inflammatochenry responses in periodontal disease."</i>
11:20 pm	Michael Stolley <i>"Oral-Resident Antiviral T cells in Periodontitis"</i>
11:40 am	Xiaozhe Han <i>"Microbial extracellular vesicles as potential link between periodontal disease and diabetic retinopathy"</i>
12:00 pm	Masayuki Tsukasaki <i>"New insights into inflammatory bone diseases"</i>
12:20 pm	Discussion
12:30 pm	Lunch (on your own) and Informal Discussions

AFTERNOON/EVENING

2:00 pm	Poster Session
4:00 pm	Closing Remarks, Dean Wolff / Tours of Penn Dental Medicine
4:30-7:00 pm	A Taste of Philly Celebration Dinner

FRIDAY, 8/1/2025

Departure