PRESENTATION SPEAKERS

Kaplan Scholar

Nico Geurs, D.D.S., M.S.
Chair, Periodontology, UAB

Dr. Nico Geurs is the Weatherford/Palcanis endowed professor and chair of periodontology at the University of Alabama at Birmingham. He received his dental degree at A.C.T.A., Free University of Amsterdam, The Netherlands, in 1992. Geurs completed his training in periodontology and his master's degree in clinical dentistry at UAB from 1992-1995. He is a Diplomate and serves as an examiner of the American Board of Periodontology. He is committed to education in periodontology and implantology for both dental students and post-graduate students. Geurs was the director of the advanced education program in periodontology for 10 years and his research interests include periodontitis and systemic health, regeneration, bone grafting, and dental implantology. He has published and lectured extensively on these topics.

Research Keynote Speakers

Josephine Esquivel-Upshaw, D.M.D., M.S.
Associate Professor, Prosthodontics, UF

Dr. Josephine Esquivel-Upshaw is an associate professor in the Department of Restorative Dental Sciences Division of Prosthodontics at the UF College of Dentistry. Her research areas of interest include ceramics, dental materials, implants, wear of enamel and clinical research. Esquivel-Upshaw completed her dental degree from the University of the Philippines in 1991, and completed her residency training in prosthodontics, a master’s degree in advanced dental education and a certificate in prosthodontics from Northwestern University in 1994. In 2009 she completed a master’s degree in clinical investigation at the UF College of Medicine. Esquivel-Upshaw is a journal reviewer for several dental journals, including Dental Materials and the Journal of Prosthodontics. She currently has collaborations with Chemical Engineering, Materials Science Engineering and the Institute of Food and Agricultural Sciences at UF.

Edward K.L. Chan, Ph.D.
Professor, Oral Biology & Anatomy and Cell Biology, UF

Dr. Edward Chan is a professor in the Department of Oral Biology at the UF College of Dentistry. He conducts state-of-the-art studies on the molecular and cell biology of RNA interference, and develops information on the linkage of microRNAs as biomarkers for oral cancer and premalignant lesions. Chan’s research continues to enhance understanding of fundamental aspects of microRNA-mediated gene regulation in oral cancer. He is also heavily invested in the application of chimeric antigen receptor T cell-mediated therapy for oral cancer. Chan was educated in Canada, earning his undergraduate degree in biochemistry from the University of British Columbia in 1976. He earned his master’s in clinical chemistry in 1980 and his Ph.D. in immunopathology in 1984, both from the University of Calgary. From 1984-88, he was a research fellow at Scripps Research Institute in La Jolla, California, where his interest in cancer research started with studies on the diversity of the autoantibody responses in cancer.

TODAY’S SCHEDULE

7:00 to 8:00 a.m.
**Breakfast & Check-in**
Harrell MedEd Building, North Learning Studio (125)
Sponsored by UF CDE

8:00 to 10:00 a.m.
**Kaplan Scholar Presentation (2 CEUs)**
**Implant maintenance and the prevention of peri-implantitis**
Nico Geurs, D.D.S., M.S.
Harrell MedEd Building, North Learning Studio (125)

9:30 to 11:00 a.m.
**Poster Presentations** (Set up from 8:00 to 9:00 a.m.)
HPNP College of Nursing Atrium

11:00 a.m. to Noon
**Research Keynote Presentation (1 CEU)**
Harrell MedEd Building, North Learning Studio (125)

- Factors affecting the survival of implant-supported ceramic | ceramic prostheses: a translational approach
  Josephine Esquivel-Upshaw, D.M.D., M.S.
- Oral cancer – early microRNA biomarker and novel CAR-T targeted therapy
  Edward Chan, Ph.D.

Noon to 2:00 p.m.
**ASDA Vendor Fair**
Biomedical Sciences Building Atrium

Noon to 1:00 p.m.
**ASDA Lunch (Vendor Fair passport required for students)**
HPNP Reception Hall
Co-sponsored by the UFCD Dean’s Office

1:00 to 4:00 p.m.
**Oral Presentations (up to 3 CEUs)**
12 presentations; four from each division
Harrell MedEd Building, North Learning Studio (125)

All awards will be announced the following week.
24 Mauricia Brown  
Quantitative analysis of cement removal  
25 Nickolas Diodati  
Characaterization of the viable-but-not-culturable state in the oral pathogen Streptococcus mutants  
26 Alexandre Dean  
Quantitative evaluation of biofilm removal by two different 3-D rotary file systems  
27 Jacob Otis  
Untethered canal walls following two rotary systems evaluated by nano-CT  
28 Monique Belin  
Evaluation of efficacy of 3-D file systems in the removal of gutta percha and sealer in retreatment procedures using nano-CT technology  
29 Nicholas Stock  
Rare pressure ulcers of a radiacular cyst with review of literature  
30 Cleo B Vidican  
Chondroblastic osteosarcoma of the maxilla in Li-Fraumeni syndrome- a case report  

Ph.D./Postdoctoral/Graduate Category  
31 Augusto Rodrigues Lima  Detection of Streptococcus mutants glycoprotein Cnn in endodontic infections  
32 Lauren Roberts  
ID2 functions as a potent host restriction factor for KSHV lytic replication  
33 Fernanda Rocha  
Porphyromonas gingivalis siphingolipids immunomodulate macrophage responses  
34 David Bricl  
Establishment of nucleo-cytoplasmic trafficking assay for the viral proteins of HHV-8  
35 Patricia Lara Vasquez  
Identification of proteins translation machinery components of Streptococcus mutans  
36 Sakhivel Rav  
Chronic Trepnotena denticotio infection on regulation of Amyloid-B plaques in APP-TgCRND8 mice model of Alzheimer’s disease  
37 Surabhi Mishra  
Dissecting structure/function relationships of Streptococcus mutans membrane protein chaperones/insertases YidC1 and YidC2  
38 Anavindra Rai  
Oral bacteria Porphyromonas gingivalis activating Amyloid-B plaques and neurotrophic marker in APP-TgCRND8 mice model of Alzheimer’s disease  
39 Shwini Kundra  
The second messenger cyclic-di-AMP in Entercoccus faecalis is essential for stress survival  
40 Maheshw Mon  
Impact of anti-muscarinic type three receptor autoantibodies in Sjogren’s syndrome diagnosis and secretion dysfunction  

Faculty/Staff Category  
41 Brenda Thacker  
Practitioners’ value of promotional items and activities in the National Dental PBN  
42 Deborah McIver  
Effects of National Dental PBN meeting discussions on practitioner opioid prescribing intentions  
43 Thomas Hong Nguyen  
Genome-wide screen identifies novel switch mechanisms of oncogenic viral gene expression programs  
44 Nitasha Aroca  
Association of Streptococcus mutans and Candida albicans with ECC recurrence  
45 Utpama Gohel  
In vitro analysis of dental erosion caused by commercial vegetable juices  
46 Katherine Glickman  
Understanding the role of FOKX1 and FOKX2 in host-viral interactions of the oral cavity  
47 Joyce C Morales Aparicio  
Lipidomic and proteomics evaluation of extracellular membrane vesicles Streptococcus mutans wild-type, ΔsrtA and Δsfa strains  

Undergraduate Category  
48 Anthony Sperduto  
Screening for novel gene products required for sucrose-mediated biofilm formation in streptococcus mutants with an arrayed transposon mutant library  
49 Nikitha Yadapalli  
Fusobacteria induce immune evasion of oral cancer cells  
50 Shina Patel  
Oral care in children with cystic fibrosis  
51 Whi Shin  
Investigation of IMPDH Flament expression in head and neck cancer cell proliferation  
52 Madeline Howe  
CD70 is a potent target for chimeric antigen receptor T cell therapy in head and neck squamous cell carcinoma  
53 Charmi Shah  
Kava prevents smoking-mediated bone loss by modulating the uncoupling bone remodeling  
54 Rachael Marley  
Collaborative assessment and care in pediatric oral health: connecting dentistry and dietetics  
55 Brook Richard  
Inhibition of Streptococcus mutans cell signaling by communal streptococci  
56 Sebastian Ocampo  
Evaluation of amyloidophilic dyes for functional amyloid identification in Streptococcus mutans biofilms  

Ph.D./Postdoctoral/Graduate Category  
57 Daniel Kal  
Evaluation of amyloidophilic dyes for functional amyloid identification in Streptococcus mutans biofilms  
58 Jason Kim  
Investigation of IMPDH filament formation in head and neck cancer cell proliferation  
59 Gabriela Melendez  
Characterization of manganese transporters in Porphyromonas gingivalis biofilm development  
60 Samaan Abdulali  
Understanding the role of FOXQ1 and FOXF2 in host-viral interactions of the oral cavity  

Judges  
A special thank you to our judges who volunteered to score presentations for Spring Synergy  

Oral Presentations  
1:00-1:05 Robert Burne, Ph.D., Welcome  
1:05-1:15 Naeem Motlagh  
Identification of an intricate link between the notch signaling pathway and gamma-glutamyltransferase 6 for efficient reactivation of an oral herpesvirus  
1:20-1:30 Carson Smith  
Characterization of gamma-glutamyltransferase 6, a novel notch signaling pathway partner  
1:35-1:45 Callahan Katrak  
Characterization of manganese transporters in Streptococcus mutans  
1:50-2:00 Rosemarie Torres-Medina  
Detection of extracellular vesicles in gingival crevicular fluid  
2:05-2:15 Danielle M. Vermilyea  
Peplydylarginine deiminulates Porphyromonas gingivalis biofilm development  
2:20-2:30 Gopal Naik Nerusath  
Maintaining viral latency of human tumor herpesviruses by cellular epigenetic factors  
2:35-2:45 Trishid Ganguly  
Transcriptional and posttranscriptional control of the Streptococcus mutans oxidative stress regulators SpaK1 and SpaK2  
3:00-3:10 Gavin J. Golas  
Anti-viral immunity through the viral interferon regulatory factors of KSHV  
3:15-3:25 Kyulm Lee  
Exploring novel probiotic mechanisms of Streptococcus A2 with functional genomics  

M.S./Resident Category  
3:30-3:40 Abdulaziz Banasser  
CAMTA 1 and TFE 3 confirmation of oral cavity epithelial hemangioendothelioma  
3:45-3:55 Abeer Hakam  
The effect of antidepressant medication on periodontal health and stability- a clinical retrospective study