Dental Research in Review Day

Wednesday February 11, 2004
UNC-CH School of Dentistry

8:00- 8:30 Poster Set-up 3rd floor lobby, Tarrson
8:30- 11:00 Poster Viewing/Judging 3rd floor lobby, Tarrson
10:00-11:00 Oral Session/Judging Brauer 04/407 & Old Dental 150/3180
11:00-11:10 Raffle (must be present to win) 3rd floor lobby, Tarrson
11:15-12:15 Keynote Address Brauer 407
12:30- 1:30 Lunch and Learn Seminars* rooms to be announced
2:00- 4:00 Oral Presentations/Judging Brauer 04/407 & Old Dental 150/3180
4:00- 5:00 Demonstration Workshops* rooms to be announced
5:00 Awards Ceremony Brauer 04

* Sign-up for Lunch&Learn or Workshops by Feb.9 - http://www.dent.unc.edu/drr/2004-DRR/

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**Keynote Address**
11:15 to 12:15, Brauer 407

*Mucosal Biofilm, or How You Co-exist with Microbial Slime*

Mark Herzberg, DDS, PhD
Professor of Oral Sciences, University of Minnesota School of Dentistry
Lunch and Learn Seminars
12:30 to 1:30

1. Wallace Ambrose  The Dental Research Electron Microscopy Center: A valuable Resource for YOUR Research
2. John Elter  Conducting Clinical Trials of the Oral/Systemic Diseases Relationship
4. Gus Horsey  Why do Research? A Student's Prospective
5. Ralph Leonard  Current Topics in Nightguard Vital Bleaching
6. Bill Maixner  Orofacial Pain - Current Perspectives
7. John Williams  Autotransplantation of Teeth: A case-Based Review

Demonstration Workshops
4:00 to 5:00

Latest Cerec-3 Technology
with Jeff Mazza and George Kahl  Simple rules to succeed using Cerec - Demonstration

The Role of Facial Imaging in Orthodontics:
Novel Techniques and Applications
with Carroll-Ann Trotman

Microarray Analysis of Gene Expression
with Scott Vacha  Principle and Methods
and Jennifer Webster-Cyriaque and Tim Wright  Applications to Dental Research

Introduction and Hands-On Demonstration of Digital Color Capture and Management Systems for Esthetic Procedures
with David Avery (Drake Dental Laboratories)

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Poster Presentations
8:30 to 11:00, 3rd floor lobby, Tarrson Hall

1. Delay in Oropharyngeal Cancer Diagnosis: Pilot Study of Symptoms ............................... Jacqueline Carr  DDS/DH/DA/Pre-Doc
2. Elder Abuse Content in North Carolina Dental Hygiene Programs.................................................. Karen Mori  DDS/DH/DA/Pre-Doc
3. Cross-Contamination of PSP Sensors in a Pre-Clinical Setting .............................................................. Wendy Negron  MS
4. Preliminary Characterization of Oral KSHV Infection ............................................................................. RoShauna Rothwell  PhD
5. SLPI Upregulation by HIV-1 in Oral Epithelial Cells ........................................................................... Nandan Jana  Post-Doc
6. Dental Students' Behavioral Styles as Predictors of Future Management Skills ..................................... Rebecca Wilder  Faculty
7. Factors Associated with Incident/Progression of Periodontal Measures in Pregnant Women............. Kevin Moss Staff
9. A Peripheral Cannabinoid CB(2) Mechanism Attenuates Wide Dynamic Range Neuronal Activity in the Spinal Dorsal Horn in a Rat Model of Inflammation .................................................. Andrea Nackley Post-Doc
10. Estimate of Porosity Levels Within Flowable Dental Composites ....................................................... Stephen Bayne Faculty
11. Evaluation of a New Fluoride Varnish for Cervical Dentin Hypersensitivity ........................................... Andre Ritter Faculty
12. Three-Dimensional Diagnosis of Dentofacial Deformities .................................................................... Lucia Cevizenes Post-Doc
13. Expression of Lysyl Oxidase and Its Isoforms During Matrix Mineralization ..................................... Phimon Atsawasuwan PhD
14. Increased T Cell Antigenicity of Murine Tumor Increases Tumor Resistance ............................................... Li Qian Post-Doc
15. Oxidative Stress Modifies Antibody and CRP Responses to Periodontal Disease ............................ Bob Singer Visiting Prof.

16. Pulpal Disease Secondary to Intracoronary Restoration Placement ..................................................... Jason Lambert  8:30
17. Determination of Strain Identity in Oral KSHV Infection ...................................................................... Camelia Cooper  8:45
18. Determinants of KSHV Reactivation Using a Viral Pathogenesis Based Microarray ......................... Dominick Latres  9:00
19. Periodontopathic Bacteria as Inducers of Herpes Viral Replication ..................................................... Brad Pictor  9:15
21. Utilization of Medicaid Dental Services Among NC Preschool Children ........................................... Antonio Braithwaite  9:45
22. Growth Hormone Receptor Defects Effect on Tooth Morphology and Structure ................................ Gustav Horsey  10:00
23. A Costs Analysis of Dental Treatment for Ectodermal Dysplasia ........................................................ Sean Murdock  10:15
24. The Effect of Different Rewetting Agents on the Long-term Bond Strengths to Dentin .......................... Ricardo Walter  8:30
25. Micro-Tensile Bond Strengths of Tooth-Denture Interfaces.................................................................... Abdullah Alsiyabi  8:45
26. Analyses of HIV-1 Variants in a Mother-Infant Transmission ............................................................... Laurie Gray  9:00
27. Role of Dental Radiographs in Detecting Patients at Risk of Stroke .................................................... Sajitha Kalathinalingam  9:15
28. Roles of Biglycan on Collagen Matrix Maturation and Organization ................................................. Duenpim Parasuthiman  8:30
29. UVB Exposure Modulates Treg Cells in Murine Model of Immunosuppression .................................. Meredith Winters  8:45
30. Transcription Pattern of Human and Viral Genes in Herpes Virus Infections: Validation of a Novel Microarray .................................................................................................................................. Vivian Lenchitsky  9:00
31. Material Evaluation for a Novel Dental Implant Design ........................................................................ Jeffrey Piascik  9:15
32. Receipt of Oral Health Care Services among Hispanics in the US ....................................................... Gloria Mejia  9:30
33. Clinical Trial of a Novel Interdental Brush System: Are Participants' Favorable Perceptions Linked to Better Clinical Outcomes? .................................................................................................. Yan Zhong  9:45

Oral Presentations
10:00 to 11:00 am and 2:00 to 4:00 pm

Brauer 04

34. 10:00 Pediatric Medical Residents' Oral Health Education: Effects on Caregiver Knowledge and Behavior ......................... Michael Rossitch  MS
35. 10:15 Early Preventive Dental Visits: Effects on Subsequent Utilization and Cost ........................................... Matthew Savage  MS
36. 10:30 The Role of TACE in Tooth Formation ....................................................................................... Martha Hardaway  MS
37. 10:45 Evaluating North Carolina's Varnish and Screening Program in a Pediatric Medical Residency Setting: In Progress .......................................................................................................................... Jonelle Grant  DDS/DH/DA/Pre-Doc
38. 2:00 Stability of Periodontal and Cardiovascular Measures in Untreated Periodontitis Patients ....................... Ryan Harris  MS
39. 2:15 Performance Characterization of the Newton CT Dento Maxillofacial Scanner for Evaluation of Periodontal Bone Loss - Phase I Results .................................................................................. Ashok Balasundaram  MS
40. 2:30 North Carolina State Survey of Dental Hygienists: Oral Cancer ....................................................... Tanya Ashe  MS
41. 2:45 Long-term Stability of Soft Tissue Changes Following Orthognathic Surgical Correction of Patients with Skeletal class III Malocclusion ..................................................................................... Amy Joslin  MS
42. 3:00 Evaluation of a Self-Instructional Computer Web-Based Course for Orthodontics .......................... Carlos Nurko  MS
43. 3:15 The Determinants of Dental Referral Practices Among WIC Nutritionists in North Carolina .......................... Elizabeth Shick  MS
Oral Presentations
10:00 to 11:00 am and 2:00 to 4:00 pm

Old Dental 3180

44.10:00 Porosity and Pore Size Distribution of Novel Directly-Placed Ceramic Restorative Material ........................................ Jonas Geirsson .............. MS
45.10:15 Aging and Collagen Cross-Links in Human Premolar Dentin ................................................................. Pacharee Soonthornsawad MS
46.10:30 The Effectiveness of Different Obturation Techniques in Infected and Non-Infected Root Canals: A Histological Study in Dogs ......................................................... Guy Shipper .................. MS
47.10:45 Antibiotic Disinfection of Immature Teeth with Apical Periodontitis ............................................................... William Windley .............. MS

48. 2:00 Identification of Genes Involved in Early hMSC Osteoblast Differentiation ................................................... Juanli Guo ..................... PhD
49. 2:15 Cloning and Characterization of a Novel Osteoclast-Associated Protein ....................................................... Emad Khan ..................... PhD
50. 2:30 Plasmid DNA Immunizations and Islet Transplantation in the Treatment of Type I Diabetes: Differential Induction of Immunoregulatory Cells .................................................... Shannon Pop ..................... PhD
51. 2:45 Association between Prevalence of Root Caries and Coronary Heart Disease .............................................. Sally Mauriello ................. Faculty
52. 3:00 Moving Patients from Consults to Procedures: an Analysis of Patients in One Oral Surgery Group Practice ................................................................. Jason Annan ................. DDS
53. 3:15 Progression of Occlusal Caries in Asymptomatic Third Molars ................................................................. Matt Jacks ..................... MS
54. 3:30 The Use of Biodegradable Bone Plates and Screws in Maxillofacial Surgery ............................................. Tim Turvey ..................... Faculty
55. 3:45 Arthroplasty Efficacy and Safety of a Single Intra-articular Injection in the Temporomandibular Joint After Condylar Remodeling Following Orthognathic Surgery ........................................... Quay Parrott ................. MS

Old Dental 150

56.10:00 Investigation into the Expression of Immune Mediators by Human Odontoblasts ........................................... Aaron Thompson .............. MS
57.10:15 Structural Basis of Human Carboxylesterase 1: From Narcotic Metabolism to Atherosclerosis ................ Sompop Bencharit .............. Post-Doc
58.10:30 CDE Participation Levels for DDS/course Versus Team/Course at 3 Programs ............................................. Sharon Grayden ........ Faculty
59. 2:00 Virtual P.A.R. and A.B.O. Scoring Compared with Plaster Models ................................................................. Reid Brogden .................. MS
60. 2:15 Child Oral Health Related Quality of Life and Psychosocial Well Being Among Orthodontic Patients: Investigation of a New Instrument ................................................................. Neil Dunlow ................. MS
61. 2:30 Evaluation of Calcium Phosphate Matrices as Delivery Vehicles for Adult Mesenchymal Stem Cells .......... Chris Harris ..................... MS
62. 2:45 The Efficacy of Panoramic Radiography and Cone Beam CT in the Diagnosis of Condylar Symmetry ............. Stewart Laster .................. MS
63. 3:00 Condylar Remodeling Following Orthognathic Surgery ................................................................................. Quay Parrott ................. MS
64. 3:15 Patient and Provider Perceptions of Skeletal Anchorage in Orthodontics .................................................... Nicole Scheffler .............. MS
65. 3:30 Skeletal Stability Following Superior Repositioning of the Maxilla with Biodegradable Fixation ............... Brian Smith ..................... MS

Brauer 407

66.10:00 Relationship of Periodontitis to Systemic Cardiovascular Biomarkers ...................................................... John Elter ..................... Faculty
67.10:15 Associations Between SES, Oral Health Behavior, and Missing Teeth ......................................................... Haeyoung Kim .............. Vis.Prof.
68.10:30 Lesions of Endodontic Origin and Risk of Coronary Heart Disease ................................................................. Dan Caplan ................. Faculty
69.10:45 Characterization of the Phenotype and Microarray Gene Expression Profile of Odontogenic Tumors ............ Tim Wright ................. Faculty
70. 2:00 Cone Beam Local CT for Interproximal Caries Detection ................................................................................ Sajitha Kalathingal ............ MS
71. 2:15 Hereditarility of Skeletal Class III Malocclusion ................................................................................................. Chi Bui ..................... MS
72. 2:30 Long Term Efficacy of Reverse-Pull Headgear Therapy ................................................................................... Andrew Wells .............. MS
73. 2:45 Bone Marrow-Derived Mesenchymal Stem Cells in the Regeneration of Periodontal Defects ................. Paul Byerly ..................... MS
74. 3:00 Effects of Periodontal Therapy on Markers of Acute Phase Response (APR) in Type II Diabetics ................ Sandra Chang ..................... MS
75. 3:15 Bone Marrow-Derived Mesenchymal Stem Cells as Progenitor Cells in the Regenerating Periodontium ...... Scott Gould ..................... MS
76. 3:30 Prospective Evaluation of the Systemic Inflammatory Marker, C-Reactive Protein, in Diabetic Patients with Advanced Chronic Periodontitis Restored with Dental Implants: A Pilot Study ........................................ Tiffany Harris .............. MS
77. 3:45 Relationship between Periodontal Disease and Atherosclerosis in a Primate Population.......................... John Jacquot .............. MS