Science Day is open to all members of the GSDM and BUMC communities.

SCIENCE DAY 2019
TUESDAY, MARCH 12
Hiebert Lounge
Boston University School of Medicine
Instructional Building, 14th Floor

SCHEDULE
Dental Vendor Fair Exhibition .......... 8 AM – 12 PM
Poster Viewing .................................. 9 AM – 1 PM
Complimentary Lunch ...................... 12 – 1 PM
Keynote Address ............................. 1 – 2 PM
Oral Presentations ......................... 2 – 5 PM

KEYNOTE ADDRESS
"Endogenous Bioelectric Controls of Patterning: Toward Machine Learning Discovery of Electroceuticals for Regenerative Medicine"
Michael Levin, PhD
Vannevar Bush Professor, Department of Biology
Director, Allen Discovery Center
Director, Center for Regenerative and Developmental Biology
Tufts University

Mohammed Ahmed, Yuwei Fan and Dan Nathanson, Department of Restorative Sciences & Biomaterials: "Effect of Different Firing Cycles, Etchant Concentration and Etching Time on Tensile Bond Strength of Emax CAD."

Kelsey George, Ahmed Alsulaiman, Emilia Smith and David Briss, Department of Orthodontics & Dentofacial Orthopedics: "3D Treatment Changes in Alveolar Bone Thickness Around the Mandibular Incisors."

Kanwal Maheshwari, Chang Zhang and Laisheng Chou, Departments of Endodontics and Restorative Sciences & Biomaterials: "Effect of Simvastatin on the Biocompatibility of Human Dental Pulp Cells."

Katherine Marcks, Yihong Zhao, Melih Motro and Leslie Will, Department of Orthodontics and Dentofacial Orthopedics: "Cephalometric Variability Among Siblings."


Diana Torres, Ahmed Alsulaiman and Melih Motro, Department of Orthodontics & Dentofacial Orthopedics: "3D Soft Tissue Effects of Rapid Palatal Expansion."

Ashley Ta, Ahmed Alsulaiman, Leslie Will, Department of Orthodontics & Dentofacial Orthopedics: "Skeletal Maturity: Past vs. Present."

Postdoctoral Students

Rami Alhomrany, Chang Zhang and Laisheng Chou, Department of Endodontics and Restorative Sciences & Biomaterials: "Cellular Uptake of Chitosan Nanoparticles Induced Genotoxicity in Human Dental Pulp Cells."


Abdullah Bamashmous, Jeremy Kerntsky, Taisuke Ohira and Serge Dibart, Department of Periodontology: "Amniotic Growth Factors Induced Bone Formation in a Mouse Ex-vivo Model."

Laila Bamashmous, Leslie Will, Mohamed Bamashmous, Elizabeth Kaye and Melih Motro, Departments of Health Policy & Health Services Research and Orthodontics & Dentofacial Orthopedics: "The Relationship between Adiposity Indices and Skeletal Maturity in Orthodontics."

Ningyuan Sun, Yuhei Uda, Alejandro Kochen, Roberto Nunes, Campos Santos, Paola Divieti Pajevic, Department of Molecular & Cell Biology: "Osteocyte Metabolism."

Mustafa Tashkandi, Sager Alsaker, Thabet Alhoussami, Faiza Ali, Pushkar Mehra, Larry M. Wolford, Louis C. Gerstenfeld, Mary B. Goldring and Manish V. Bais, Texas A&M University College of Dentistry, Baylor University Medical Center, Dallas, TX; Department of Cell and Developmental Biology, Weill Cornell Medical College; Department of Orthopedic Surgery, Boston University School of Medicine and Hospital for Special Surgery Research Institute and Departments of Oral & Maxillofacial Surgery & Molecular & Cell Biology: "Lysyl Oxidase Like-2 Role in TMJ and Knee Osteoarthritis."
Science Day Schedule | Tuesday, March 12, 2019

8 AM – 12 PM | Vendor Fair Exhibition

- 3M Oral Care Solutions
- A-dec
- Brasseler USA
- Colgate
- Designs for Vision

9 AM – 1 PM | Poster Presentations

DMD Students

- Asif Rangoonwala, Yuwei Fan and Dan Nathanson, Department of Restorative Sciences & Biomaterials: “In Vitro Comparison of Tensile Bond Strength of Zirconia to Titanium Substrate with Various Types of Luting Cements.”
- Jessica Wang, Erdjan Salih, Yihong Zhao, Bing Liu. Department of Periodontology: “Salivary Alkaline Phosphatase Activity and Total Protein Levels in Periodontal Disease and Diabetes.”
- WeiHao Wang, Edith Lin, Alison Romisher, Janice Walker, Sue Menko, and Maria A. Kukuruzinska, Departments of Pathology, Anatomy & Cell Biology, University of Pennsylvania and Molecular & Cell Biology: “Early Determinants of Ductal Patterning in the Developing Submandibular Gland.”
- Masters (MSD & 1st yr PhD/DScD)

- Thabet Alhoussi, Faiza Ali, MustafaTashkandi, Andrew Salama, Xaralabos Varelas, Maria Kukuruzinska, Stefano Monti, and Manish V. Bais, Departments of Biochemistry and Section of Computational Biomedicine, Boston University School of Medicine; Departments of Endodontics, Oral & Maxillofacial Surgery and Molecular & Cell Biology: “Deletion of LSD1 During Dysplasia Epigenetically Attenuates HNSCC Premeoplasia.”
- Chayanit Angkananuwat, Gail Yang, Yuwei Fan and Russell Giordano, Department of Restorative Sciences & Biomaterials: “Tensile Bond Strength of Enamic and Mark II Effected by Etching time of 5% HF Etch Gel.”
- Tyler J Guinn, Vrinda Dumbal, Philip Trackman, Department of Molecular & Cell Biology: “In Vivo Analysis of Lysyl Oxidase Deletion in Mouse Osteoblasts, a Pilot Study.”
- Preeti Singh and Elizabeth Kaye, Department of Health Policy and Health Services Research: “Chronic Disease associations with tooth loss.”

1 PM – 2 PM | Keynote Address

“Endogenous Bioelectric Controls of Patterning: Toward Machine Learning Discovery of Electroceuticals for Regenerative Medicine” presented by Dr. Michael Levin, Ph.D.

This presentation addresses the question of how cells cooperate towards making complex anatomical structures. It specifically addresses novel mechanisms by which bioelectrical signaling implements large-scale decision-making in remodeling tissues. Questions to be addressed include the relationship between the genome and the anatomy, and how new techniques are enabling the rational modification of bioelectric circuit activity toward the repair of birth defects, traumatic injury, and cancer.

2 PM - 5 PM | Oral Presentations

DMD Students

- Ariana dela Cruz, Vinay Kartha, Ronjuan Mi, Stefano Monti, Janicke Jesen, Kathrine Skarstein, Xaralabos Varelas and Maria Kukuruzinska, Departments of Medicine and Biochemistry, Boston University School of Medicine; Faculty of Dentistry, University of Oslo, Norway; Clinical Medicine, University of Bergen, Norway and Molecular & Cell Biology: “Novel Transcriptome Subpopulations from Sjögren’s and Non-Sjögren’s Salivary Gland Epithelia.”
- Taylor Paek, Yuwei Fan and Russell Giordano, Department of Restorative Sciences & Biomaterials: “Mechanical Strengths of Translucent Zirconia Materials.”

Postdoctoral Students

- Jomana Alsenan and Laisheng Chou, Departments of Endodontics and Restorative Sciences & Biomaterials: “Effect of Silicon and Calcium on Human Dental Pulp Cell Cultures.”
- Hillary Sawyer, Sherif Zareef Tawfik, Taisuke Ohira and Serge Dibart, Department of Periodontology: “The Ring: Three-Dimensional Vertical Augmentation.”
- Sowjanya Tadakapalli, Daniel Messer, Sami Chogle, Hong-Sheng Liu and Lakshmi Garadinne, Departments of Endodontics and General Dentistry: “CBCT Evaluation of the Root and Canal Morphology of Mandibular First and Second Permanent Molars in Patient Population Visiting BUSDM – A Retrospective Study.”
- Abeer Tashkandi, Yuwei Fan and Dan Nathanson, Restorative Sciences & Biomaterials: “The Effect of Different Zirconia Surface Treatments on the Bond Strength to Resin Cement.”
- Suponpet Teerakanok, Yuwei Fan and Russell Giordano, Department of Restorative Sciences & Biomaterials: “Optical Properties of Alumina Matrix Interpenetrating Phase Ceramics.”
- Jhansi Tulasi, Thayer Scott, Elizabeth Kaye. Department of Health Policy & Health Services Research: “Role of Caregivers’ Oral beliefs and Social Influences on their Child’s Utilization of Preventive Dental care Services.”