

**Masters (MSD & 1st yr PhD/DScD)**

**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 E.max 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."*

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

**Ahmed Mohammed**, Ahmed Alsumaiman, Monika Hersberger-Zurfluh, Joseph Bouserhal, Nayla Bassil-Nassif, Rachel Satherkge, Kazuhito Arai, Misa Ikoma, Ghassan Al-Turki, Abdulrahman Idrees, Beyza Tagrikulu and Melih Motro, Zurich, Saint-Joseph, Nippon Dental, King Abdul Aziz and Istanbul universities, Military Hospital of Pretoria and Department of Orthodontics & Dentofacial Orthopedics: *"Soft Tissue Profile Preference of Layperson Among Different Cultures."*

**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."*

**Sarah Almugairin**, Melih Motro, Goli Parsi, Pushkar.Mehra and Leslie Will, Departments of Oral & Maxillofacial Surgery and Orthodontic & Dentofacial Orthopedics: *"Three-Dimensional Stability Following Two-Jaw Class II Surgery: A Pilot Study."*

**Abdullah Bamashmous**, Jeremy Kernitsky, 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 Maturation in Orthodontics."*

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

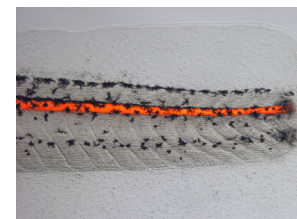
**Mustafa Tashkandi**, Saqer Alsaqer, Thabet Alhousami, Faiza Ali, Pushkar Mehra, Larry M. Wolford, Louis C. Gerstenfeld, Mary B. Goldring and Manish V. Bais, Texas A&M University College of Dentistry, Baylor University Medical Center, Dallas, TX; Department of Cell and Developmental Biology, Weill Cornell 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."*



**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



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

**FOR MORE INFORMATION, VISIT:**  
[www.bu.edu/dental/research/predoctoral/science-day/](http://www.bu.edu/dental/research/predoctoral/science-day/)  
[www.bu.edu/dental-research/student-research](http://www.bu.edu/dental-research/student-research)

# Science Day Schedule | Tuesday, March 12, 2019

## 8 AM - 12 PM | Vendor Fair Exhibition

3M Oral Care Solutions	Door to Door Dental	Procter & Gamble Crest Oral-B
A-dec	Glaxosmithkline	Patterson Dental
Brasseler USA	HenrySchein Dental	SurgiTel
Colgate	Midmark	
Designs for Vision	Orasoptic	

## 9 AM - 1 PM | Poster Presentations

### DMD Students

**Saad Joulakh**, Yuwei Fan and Russell Giordano, Department of Restorative Sciences & Biomaterials: *"Color Stability of Multi-Layer Fast Fired Zirconia."*

**Svitlana Koval**, Caglayan Dicle, Arel Cordero, Lakshmi Garladinne, Melih Motro, Departments of General Dentistry and Orthodontics & Dentofacial Orthopedics: *"Automation of Cephalometric Landmarking Using Deep Learning - Preliminary Results."*

**Mei-Hsuan Li**, Lakshmi Garladinne, Vikki Noonan, Manish Bhagania and Devaki Sundararajan, Departments of General Dentistry and Oral & Maxillofacial Surgery: *"Dentigerous Cyst vs Hyperplastic Follicle: Radiographic and Histopathology Identification."*

**Mackenson Montas**, Hamza Al Atassi, Michael C. Shapiro, Sowmya R. Rao and Andrew R. Salama, Department of Oral & Maxillofacial Surgery: *"Are You Gritty & Resilient Enough to Succeed? Grit and Resilience May be Related to Dental Students' Academic Success during School: A National Analysis."*

**Mohammad Mourad**, Ana Keohane, Alexander Bendayan, and Vasiliki Maseli, Department of General Dentistry: *"Implementation and Utilization of Digital Dentistry (CAD/CAM) in US Dental Schools - An Integration Path from Preclinical to Clinical Education."*

**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/DSdC)

**Thabet Alhousami**, 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 Preneoplasia."*

**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."*

### Postdoctoral Students

**Safaa Ahmed** and Elizabeth Kaye, Department of Health Policy and Health Services Research: *"Disability, Food Security, Socioeconomic Status and Untreated Dental Caries among US Adults 20-60 years: NHANES 2013-2014."*

**Ali Al Aqeeli**, Safaa Ahmed, Thayer Scott and Elizabeth Kaye, Department of Health Policy and Health Services Research: *"Association between Vitamin D Deficiency and Permanent Caries among US Population."*

**Jomana Alsenan** and Laisheng Chou, Departments of Endodontics and Restorative Sciences & Biomaterials: *"Effect of Silicon and Calcium on Human Dental Pulp Cell Cultures."*

**Nada Alshehri**, Leslie Will, Melih Motro and Alpdogan Kantarci, & Dentofacial Orthopedics and Forsyth Institute: *"D-Galactose Induced Senescence in Periodontal Ligaments Fibroblast Cells."*

**Hillary Sawyer**, Sherif Zareif Tawfik, Taisuke Ohira and Serge Dibart, Department of Periodontology: *"The Ring: Three-Dimensional Vertical Augmentation."*

**Abdelrouf Suwid**, Serge Dibart and Erdjan Salih, Department of Periodontology: *"Engineering Novel Models for Craniofacial Bone Regeneration."*

**Sowjanya Tadakapalli**, Daniel Messer, Sami Chogle, Hong- Sheng Liu and Lakshmi Garladinne, 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."*

**Supontep 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."*

**Wael Yaghmoor**, Amin Marghalani, Nada Tashkandi, Hatice Hasturk, Thomas Van Dyke and Alpdogan Kantarci, Departments of Periodontology and Forsyth Institute: *"The Mechanism of Osteoblast Response to Resolvin E1."*

## 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."*