FLASH POSTER PRESENTATIONS

Based on the scored rank as determined by scientific advisory board member reviews of abstracts, a select number of posters have been selected for a 3-minute (2 slides) **Flash Oral Presentation** session that takes place Monday, Tuesday and Wednesday evenings to kick off the regular poster session. This status is indicated by an "F" added to the poster number. Flash presentations will occur in the lecture hall (Zappeion/Megaron Rooms) at 8:00pm.

Following the flash presentations, we ask that you stand by your poster (on the night you present) in the Bibliotheque & Oval Office Rooms to answer questions, and discuss the science.

Poster#	Presenter	Poster Title	Institution
MONDAY			
P4-F	Natalie Andras	*Exploring site-specific functions of bone sialoprotein in mineralization using conditionally ablated mouse models*	The Ohio State University College of Dentistry, Columbus, OH, USA
P19-F	Bernhard Ganss	*Evaluating amelotin-coated hydroxyapatite nanoparticles for the remineralization of artificial carious lesions in vitro*	University of Toronto, Toronto, ON, Canada
P22-F	Bojana Ginovska	*Understanding structure and aggregation of amelogenin under various conditions*	Pacific Northwest National Laboratory, Richland, WA, USA
P37-F	Emeline Raguin	*Insights into mineral transport within the embryonal chick femur using cryo-FIB SEM 3D volume imaging*	Max Planck Institute of Colloids and Interfaces, Potsdam, Brandenburg, Germany
P43-F	Adrian Rodriguez-Palomo	*Nanostructure of regenerated bone in critical-size defects imaged by X-ray scattering*	Aarhus University, Aarhus, Denmark
P49-F	Victoria Schemenz	*Bone matrix and lacuno-canalicular network is altered in a mouse model for Marfan Syndrome*	Charité - Universitätsmedizin Berlin, Berlin, Germany
P52-F	Wendy Shaw	*Evaluating the role of the N-terminus, histidine-rich region, and C-terminus on the Interaction of amelogenin with hydroxyapatite*	Pacific Northwest National Laboratory, Richland, WA, USA
P55-F	Stephan Sutter	*In vitro models of calcific aortic valve disease to evaluate the effect of mineral phase on aortic valve cell populations*	Cornell University, Ithaca, NY, USA
P58-F	Alyssa Williams	*Nanoscale analysis of osteonal bone tissue using 3D electron microscopy*	McMaster University, Hamilton, ON, Canada
TUESDAY			
P8-F	Sarah Boyer	*Semantic segmentation of enamel caries using convolutional neural networks*	Northwestern University, Evanston, IL, USA
P20-F	Asmaa Harfoush	*Texture distribution changes in dental enamel with KLK4 mutation: Implications for understanding amelogenesis imperfecta pathogenesis*	University of Leeds, School of Dentistry, Leeds, West Yorkshire, UK

P26-F	Elis Lira dos Santos	*Impact of therapeutic strategies on dentoalveolar phenotype in the murine model of X-linked hypophosphatemia: what about gene therapy?*	Université Paris Cité, Montrouge, Ile-de-France, France
P29-F	Aaron Morgan	*Miniaturized device for assessing calcification propensity of implant materials using simulated body fluid calcification medium*	RWTH Aachen University Hospital, Aachen, NRW, Germany
P32-F	Monzur Murshed	*Understanding the craniofacial abnormalities in the C19F variant and two models lacking the conserved functional residues of Matrix Gla protein*	McGill University, Montréal, QC, Canada
P38-F	William Querido	*Optical photothermal infrared (O-PTIR) spectroscopy and imaging of bone mineralization at submicron scale*	Temple University, Philadelphia, PA, USA
P47-F	Genevieve Romanowicz	*Mineralized and vascularized bone-like organoid created with high-throughput bioprinting*	University of Oregon, Eugene, OR, USA
P50-F	Benjamin Rudski	*Just average: Constructing a 3D digital anatomical atlas of the human distal femur*	McGill University, Montréal, QC, Canada
P56-F	D. Rick Sumner	*Development and initial uses of a rat model of cortical bone matrix maturation during remodeling*	Rush University Medical Center, Chicago, IL, USA
WEDNESDAY			
P9-F	Yinghua Chen	*Transcriptome profiling of DPSCs stimulated with DPP identifies key signaling networks responsible for odontoblast-specific lineage differentiation*	University of Illinois at Chicago, Chicago, IL, USA
P18-F	Mebin George Varghese	*Unraveling the complexity of cave bear molars: The influence of enamel distribution and enamel-dentine junction shape*	Institute of Biotechnology, University of Helsinki, Viikinkaari, Helsinki, Finland
P30-F	Antonio Nanci	*Structural and molecular characterization of an Scpppq1 knock out mouse*	Université de Montréal, Montréal, QC, Canada
P36-F	Sarah Peters	*Matrisome proteomic profiling between young and old dentin identifies age- and sex-differences*	The Ohio State University College of Dentistry, Columbus, OH, USA
P39-F	Nicole Sempertegui	*Bone matrix mineral content regulates early-stage metastasis by altering mesenchymal stem cell fate*	Cornell University, Ithaca, NY, USA
P45-F	Susanna Sova	*What regulates the enamel matrix distribution? Normal and abnormal enamel distribution in human molars*	University of Helsinki, Helsinki, Uusimaa, Finland
P54-F	Vilma Väänänen	*X-ray microtomography imaging of gene expression in mineralizing tissues*	University of Helsinki, Helsinki, Uusimaa, Finland
P63-F	Liyang Zhong	*An in vitro model for preferential gap zone collagen mineralization*	University of Toronto, Toronto, ON, Canada