

大学院特別講義のご案内



◆ 日時： 2022年10月18日 18:00-19:30

◆ 場所：第一講義室

◆ 講師：Professor. Petros Papagerakis

Professor Associate Dean for Research and Graduate Affairs College of Dentistry
University of Saskatchewan

◆ 演題：「Enamel formation and enamel regeneration」



要旨 : Dental enamel is the hardest tissue in the human body, providing external protection for the tooth against masticatory forces, temperature changes and chemical stimuli. Once enamel is damaged/altered by genetic defects, dental caries, trauma, and/or dental wear, it cannot repair itself due to the loss of enamel producing cells following the tooth eruption. The current restorative dental materials are unable to replicate physico-mechanical, esthetic features and crystal structures of the native enamel. Thus, development of alternative approaches to repair and regenerate enamel defects is much needed but remains challenging due to the structural and functional complexities involved. Our lab focuses on understanding enamel formation using mice genetic models including global knock out and conditional knock out of selected genes, human genetics, and in vitro studies. We also work on developing protocols for enamel and dentin regeneration using dental stem cells, different types of hydrogels and anti-bacterial molecules applied in vitro and in vivo models.

問い合わせ先：(顎顔面口腔矯正学教室 山城・黒坂 内線2958)