

東北大学大学院歯学研究科  
インターフェイス口腔健康科学  
第82回学術フォーラム

*Forum for Interface Oral Health Science*

**Silanes and other nanocoatings in dentistry**  
**Dr. Tsoi, James Kit Hon**

**Assis. Professor, Department of Dental Materials,  
Faculty of Dentistry, The University of Hong Kong, CHINA**

平成26年11月28日(金) 18:00～19:00  
歯学部臨床研究棟(C棟)1階大会議室

**Abstract:** Silanes are a class of commonly used coupling agents in dentistry, particularly for implants and ceramic materials due to the nano-chemistry reacted on the surface. Such a modification of surface has been proved in terms of adhesion science and used clinically, such as to increase the adhesion strength in resin-Titanium and resin-Zirconia. However, the clear understanding of the priming mechanism is still lacked, also the clinical silanes could easily be attacked by water. Therefore, various attempts has been done in our group at The University of Hong Kong recently, trying to improve and understand the dental adhesion using silanes. Furthermore, other coupling agents are also being investigated. In this presentation, some of the recent findings related to the silanes and coupling agents would be discussed, and some biological aspects would be covered as well.

モデレーター: 佐々木 啓一(口腔システム補綴学分野)  
洪 光(歯学イノベーションリエゾンセンター国際連携部門)