

# 口腔顎顔面矯正学分野 特別講演のお知らせ

## Exploiting Nanoscale Physicochemical Cueing to Improve Osseointegration of Implants: From In Vitro Analyses to the in Vivo Reality

日 時 : 2015年9月15日(火) 16:30~18:00

場 所 : 歯学部4階 示説室

演 者 : Prof. Antonio Nanci

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### 講演抄録

Millions of devices made from diverse biocompatible materials are placed in humans each year for a variety of reasons, and this is expected to increase exponentially with the ageing population. These devices, which include orthopedic and dental implants, are relatively effective but still need significant improvement. Since cells grow and thrive on nanostructured extracellular matrices and the various interactions that regulate gene expression take place on the nanoscale, our research has focused on exploiting nanostructured topographies to selectively influence the fate of cells at the bone-biomaterial interface. This talk will present an overview of our studies with a simple nanoporous surface we have created. It will also highlight the fact that while in vitro results are informative, the true potential of any biomaterial can only be evaluated in the complex, multifactorial, and dynamic physiological environment of the body, and under loaded conditions. Supported by CIHR, NIH, NSERC, and FRQ-RSBO.

尚、本特別講演は大学院講義を兼ねていますので、大学院生の御来聴を歓迎致します。

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