

# 大学院特別講義のご案内



**Osaka  
University**



**Karolinska  
Institutet**



- 日時: 2013年11月20日(水) 17:00~18:30
- 場所: 大講義室
- 講師: Mats Trulsson 教授

(Division of Prosthetic Dentistry, Department of Dental Medicine,  
Karolinska Institutet, Professor, Dean)

- 演題: **The tooth as a sensor in the masticatory system**
- 要旨:

Natural teeth are equipped with extremely sensitive periodontal mechanoreceptors that signal information about tooth loads. In the present lecture, the basic force-encoding properties of human periodontal receptors will be presented along with a discussion about their likely functional role in the control of human mastication. Microneurographic recordings from single nerve fibers reveal that human periodontal receptors adapt slowly to maintained tooth loads and signal temporal, spatial and intensive information about tooth loads. This information is used by the brain to control food positioning, bite force direction and bite force intensity.