

第176回ECM Society Seminar共催

Biological and Clinical Seminar Series in Implantology

2025年 **12/15(月)17:30-19:30**

岡山大学鹿田キャンパス **歯学部棟4階 応用講義室**

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WHAT HAPPENS IF CELLULAR STRESS ON DENTAL CELLS IS ELIMINATED?

Dental cells (odontoblasts, periodontal ligament cells, cementoblasts, and bone cells) are continuously exposed to various types of stress. These dental stresses originate from diverse physiological and pathological stimuli, and can be broadly classified into physical, chemical, microbial, oxidative, and mechanical stresses. When dental cells are subjected to sustained stress and fail to mount an appropriate response, inflammatory reactions are triggered, heat shock proteins (HSPs) are synthesized, DNA damage occurs, and the affected cells may undergo apoptosis, leading to partial or complete cell death. These factors are key contributors to dental diseases, namely periodontal diseases and dentin-pulp complex diseases. Our research team (Department of Oral Histology, Seoul National University School of Dentistry and HysensBio Inc.) is developing a new class of prescription drug designed to protect dental cells from continuous stress and maintain cellular vitality. This drug aims to provide therapeutic benefits for dentin hypersensitivity, dental caries, and periodontal diseases. In this lecture, I will explain the discovery, mechanism of action, clinical development, and commercialization process of this novel agent.

※本講演は博士課程授業科目「研究方法論（基礎・応用）」の授業に出席とみなされます。
出席カードを持参し、開催担当教員の押印を受けてください。

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