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Biological Response to Surface- modified Dental Implants

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日時: 平成29年9月27日(水) 16:30~18:00

場所: 22号館1階 マルチタスクルーム

Abstract

Surface characters of dental implants play important role in their biological response. Suitable surface modifications, such as physical, chemical, electrochemical and/or biological treatments, can enhance the biological response to dental implants. The biological response may include the response of various biological species, such as protein adsorption, blood coagulation, cell growth and bacterial adhesion, etc. The biological response to dental implants play positive effect on the osseointegration of implants. The study on the various biological responses can be in vitro, in vivo and in situ. In my talk, some potential surface modifications, including physical, chemical, electrochemical and/or biological methods, for dental implants (titanium and zirconia) developed in my research group will be introduced. The in vitro, in vivo and in situ studies on the abovementioned biological responses to the surface-modified dental implants will be presented as well.

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