The 125th iCeMS SEMINAR

Mon 26 Nov 2012

14:00-16:00

Interaction between human tissue and materials for biomedical applications: clinical issues and possible answers

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Venue: 1st Floor Conference Room (#119)
iCeMS Research Building 1 Project Lab
Kyoto University

The development of more and more complex medical devices demands for materials able to guarantee special mechanical performances, physical-chemical characteristics and properties of interaction with biological environment and tissue interfaces. Besides the specific macro-design, which concern for shape, dimension and functionality of the medical device, surface and bulk properties of materials for biomedical applications represent fundamental parameters to obtain the desired diagnostic or therapeutic effect. A in deep characterization of critical medical devices retrieved from patients could give insights about materials effectiveness, failure mechanisms, or surface modifications. A selection of clinical trials and studies performed at the Interdepartmental Center for Biomedical Technologies of Trento University in collaboration with the Provincial Health Authority will be presented, reporting on advantages of integrating laboratory research techniques and skills with clinicians' expertise in order to guarantee quality and safety of medical care.

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