

KIT-UNIUD JoinTECH-Online

Student Exchange Program Information Session
& Special Lecture on the Joint Research Project

SPEAKER

Dr. Alfredo Rondinella

University of Udine ウーディネ大学



THEME

Understanding biomaterials and biocompatibility: a multidisciplinary approach

生体材料と生体適合性の理解:学際的アプローチ

DATE/TIME

JAN. 30, 2025

16:25-18:45 JST

08:25-10:45 CET

VENUE

ZOOM Online



<https://us02web.zoom.us/j/84723579327?pwd=2u5Q3qapkCv2FMzSRsrE4aJHdHJWA3.1>

Biomaterials science lies at the intersection of materials science, engineering, chemistry and medicine, enabling remarkable advances that were unimaginable just a few decades ago. These materials are designed to interact with specific biological systems, with purposes ranging from tissue repair to delivery of therapies. This seminar aims to uncover the fundamental principles underlying materials science by examining the structural, mechanical and chemical properties that govern the behavior of biomaterials in biological environments. A key concept will be biocompatibility, a complex and dynamic characteristic that determines a material's success in medical applications. Starting from a historical perspective, the lecture will explore the mechanisms of material-tissue interactions, factors that determine immune responses, and strategies to mitigate adverse effects. Examples of innovative research and technologies will illustrate how biomaterials are improving healthcare and the quality of life of patients.

ORGANIZERS



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