



UNIVERSITÀ  
DI TRENTO

Dipartimento di  
Ingegneria Industriale

PhD

Course

## Biocompatibility of materials and sterilization methods: an introduction

September 26 - October 19, 2023 - h. 11:00 - 13:00

Online

**Speaker: Alexandre Anesi, Università degli Studi di Modena e Reggio Emilia**

The course aims to provide an introduction to the concepts of biocompatibility and the body's reaction to implants. For medical devices that directly or indirectly contact patients, biocompatibility testing is required to obtain regulatory approval in most markets. The students will learn principles of biocompatibility, including medical devices, biomaterials, biological systems these devices interact with, host and material responses and biocompatibility testing.

The students are invited to apply knowledge of biological performance concepts to development of preclinical evaluation programs for medical materials and devices, in particular tissue engineered devices that incorporate biological materials and cultured cells.

The need of biomaterial sterility will be underlined, prior to the incorporation of cells or in living tissues. How material sterilization and handling may affect device/material function will be discussed.

### Info

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