



POLITECNICO
MILANO 1863

DIPARTIMENTO DI CHIMICA,
MATERIALI E INGEGNERIA CHIMICA
GIULIO NATTA

Nanocoatings, degradable metals & 3d triple cell culture in bioreactors from collagen gel scaffolds for the innovation in reparative and regenerative medicine

Diego Mantovani

(Canada Research Chair Tier I for the Innovation in Surgery |
Lab for Biomaterials and Bioengineering | Laval University)

Introduction: **Silvia Faré** and **Gabriele Candiani** (Politecnico di Milano, DCMIC)

11 January 2023 | 11:30

Sala Natta, Edificio 6
Piazza Leonardo da Vinci, 32, Milano

live | online

link will be emailed to
registered participants

[Registration Form](#)

Over the last 50 years, biomaterials, prostheses and implants saved and prolonged the life of millions of humans around the globe. Today, nano-biotechnology, nanomaterials and surface modifications provide a new insight to the current problem of biomaterial complications, and even allows us to envisage strategies for the organ shortage. In this talk, creative strategies for addressing functional nanocoatings, new metals for tunable degradable metals for a new class of implants and mixing vascular cells and collagen-based materials for physiologically relevant models will be targeted with the overall aim to envisage today how far innovation can bring tomorrow solutions for reparative and regenerative medicine.

The overall take home message of this talk is aimed to show how nanocoatings, degradable metals and 3D pluri-culture of appropriate material/cell/environment represent the today bottleneck in reparative and regenerative medicine and which are few of the strategies that have to be investigated to push forward innovation in the field, for the benefit of patients and Humans.

More info: www.cmic.polimi.it