



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Principles and applications of nano-biotechnologies

2223-116R-M2

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#### Title

Principles and applications of nano-biotechnologies

#### Teacher(s)

Profs. M. Colombo, R. Grandori, D. Prosperi, F. Gelain, D. Salerno

#### Language

English

#### Short description

The course consists of a series of lectures on different topics in nano-biotechnologies given by different experts in the field with a particular emphasis on the exploitation of nanostructured materials in different applications.

The following topics will be addressed:

- Synthesis and biofunctionalization of colloidal nanoparticles.
- Non-covalent interactions of proteins with nanoparticles.
- Nanostructured biomaterials for tissue regeneration.

- Protein-DNA interaction at single molecule level.
- Biomedical application of colloidal and biomimetic nanoparticles.

## **CFU / Hours**

1 CFU/ 8 hours

## **Teaching period**

## **Sustainable Development Goals**

QUALITY EDUCATION

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