



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Biology

1920-1-I0202D133-I0202D126M

Aims

The course aims at developing the students' understanding of the basic mechanisms that regulate molecular organization, cellular and subcellular morphology.

Contents

The cell.

Organization of cellular space. The cytoplasmic membrane. The mitochondria. Meaning of biological macromolecules. Molecular mechanisms essential to cellular life.

Detailed program

The cell

as a functional unit Organization of cellular space in functional

compartments The cytoplasmic membrane as protection, selection and

mediation structure The power source of the cell: the mitochondria

Meaning of biological macromolecules (DNA, RNA, proteins) Molecular

mechanisms essential to cellular life DNA replication RNA transcription

Protein synthesis

Prerequisites

None

Teaching form

Lessons in the presence of the teacher

Textbook and teaching resource

Resources distributed during the course by the teacher

Semester

First semester

Assessment method

Written exam: quizzes with single / multiple choice and open questions with brief answer.

Final oral exam at the discretion of the teacher or on the student's proposal regarding the project

Office hours

Reception by appointment
