

UNIVERSITÀ DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Radiobiology

2526-1-I0301D004-I0301D016M

Aims

The student should be able to know and describe the Radiobiologic effects at atomic, molecular, biomolecular, cytologic and hystologic levels.

Contents

Aim of the teaching is to give students the knowledge about the biological effects of ionizing radiation.

Detailed program

Radiobiologic effects at atomic, molecular, biomolecular, cytologic and hystologic levels. Water irradiation and oxygen enhancement effect. Low and high LET radiation. Relative biological effect. Radiation of homogeneous and inhomogeneous cells and related survival. Repair and recovery of radiation damage. Short and long term effects on tissues and organs. Somatic and genetic effects. Stocastic an graduate effects. Radiation cancerogenesis.

Prerequisites

Le	ectures
Te	extbook and teaching resource
Th	ne Teacher will provide educational material
Se	emester
Se	econd semester
As	ssessment method
СО	ultiple choice test comprising 10 questions with only one correct answer among 4 aimed at evaluating globa imprehension of course program. ral examination on request.
O	ffice hours
Ву	v appointment required by mail

Teaching form

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING