

# Testi del Syllabus

Resp. Did. **MANFIOLETTI GUIDALBERTO** **Matricola: 004082**

Docente **MANFIOLETTI GUIDALBERTO, 6 CFU**

Anno offerta: **2017/2018**

Insegnamento: **855SM - ESPRESSIONE GENICA**

Corso di studio: **SM53 - GENOMICA FUNZIONALE**

Anno regolamento: **2016**

CFU: **6**

Settore: **BIO/11**

Tipo Attività: **C - Affine/Integrativa**

Anno corso: **2**

Periodo: **Primo Semestre**

Sede: **TRIESTE**



## Testi in italiano

<b>Lingua insegnamento</b>	Inglese.
<b>Contenuti (Dipl.Sup.)</b>	The course is organized in two parts: I PART. One week intensive course on regulation of gene expression . The course is organized in seminars given by experts, professors of the University of Trieste, Udine, SISSA, ICGEB and visiting professors. The course (Erasmus week) is part of the Double Diploma programme with the Universities of Paris Diderot - Paris 7 and Paris Descartes - Paris 5. French students will be also present. The attendance is compulsory. II PART. 1. How a Scientific paper is organized. Several papers will be discussed in this section. 2. RNA analyses. Extraction, purification and analysis of RNA from eukaryotic cells. 3. Protein-DNA interactions. 4. Eukaryotic RNA polymerases and promoters. 5. Eukaryotic general transcription factors. 6. Eukaryotic transcriptional activators. 7. Chromatin structure and its effects on transcription. 8. Post-transcriptional processes.
<b>Testi di riferimento</b>	R. Weaver - Molecular biology - McGraw-Hill. Selected scientific papers and other didactical material will be provided through the Moodle platform.
<b>Obiettivi formativi</b>	Understand mechanisms responsible for the regulation of gene expression in Eukaryotic organisms at the transcriptional and post-transcriptional level. Acquire the theoretical methodology used in gene expression studies.
<b>Prerequisiti</b>	Basic concepts in Biochemistry, Molecular and cellular Biology.
<b>Metodi didattici</b>	Frontal lessons: 3 ECTS (24 hours). Others (seminars, visits,etc.) 3 ECTS (24hours).

<b>Altre informazioni</b>	Attendance of Part I is compulsory that one of Part II highly recommended. Students not able to attend the course should contact the teacher in advance. Slides of the course, papers and protocols discussed during the course can be found at the Moodle website (password needed).
<b>Modalità di verifica dell'apprendimento</b>	Written exam. A written test is at the end of the "Erasmus week" (part I) and is the discussion of a scientific paper. The second test (part II) is based on three open questions and is given at the end of the course (look at the calendar of exams).
<b>Programma esteso</b>	The course is organized in two parts: I PART. One week intensive course on regulation of gene expression . The course is organized in seminars given by experts, professors of the University of Trieste, Udine, SISSA, ICGEB and visiting professors. The course (Erasmus week) is part of the Double Diploma programme with the Universities of Paris Diderot - Paris 7 and Paris Descartes - Paris 5. French students will be also present. The attendance is compulsory. II PART. 1. How a Scientific paper is organized. Several papers will be discussed in this section. 2. RNA analyses. Extraction, purification and analysis of RNA from eukaryotic cells. 3. Protein-DNA interactions. 4. Eukaryotic RNA polymerases and promoters. 5. Eukaryotic general transcription factors. 6. Eukaryotic transcriptional activators. 7. Chromatin structure and its effects on transcription. 8. Post-transcriptional processes.



## Testi in inglese

	English.
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