



UNIVERSITÀ DEGLI STUDI DI TORINO

ID

TIC58_DIP_SCB

Visiting Professor Program Academic year 2020/2021

DEPARTMENT OF CLINICAL AND BIOLOGICAL SCIENCES

TEACHING COMMITMENT: 16 hours

COURSE TITLE

Advanced Molecular Biology

TEACHING PERIOD

2nd term

SCIENTIFIC AREA

Regulation of Gene Expression

LANGUAGE USED TO TEACH

English

The Degree Course is entirely taught in English

COURSE SUMMARY

From chromatin status to gene expression: epigenomics and transcriptomics. Regulators of gene transcription. Technical tips to access gene expression at the genome level. ChIP-seq, RNA-Seq and variants, GRO-seq and variants for transcriptional rate evaluation. Roles of Transcription Factors, Coactivators and Corepressors.

LEARNING OBJECTIVES

A modern view of genome regulation at the chromatin and transcriptional level. Introductory knowledge of technologies used for these scientific questions. Acquaintance to scientific literature in the field.

TUTORSHIP ACTIVITIES (IF APPLICABLE)

LAB ACTIVITIES (IF APPLICABLE)

OTHER ACTIVITIES (IF APPLICABLE)

Seminar to PhD students in Complex Systems for Life Sciences.

VISITING PROFESSOR PROFILE DESCRIPTION

Strong record of publication in primary journals in the field of gene and genome regulation, regulatory pathways, transcription factors, coactivators and corepressors.

Teaching experience preferred. Previous experience of teaching outside his/her University preferred.

CONTACT PERSON AT THE DEPARTMENT

Prof. Michele De Bortoli

michele.debortoli@unito.it