COURSE DETAIL

GENES, GENOMES, AND BIOMEDICAL IMPLICATIONS
Country Singapore
Host Institution National University of Singapore
Program(s) National University of Singapore
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Biological Sciences
UCEAP Course Number 132
UCEAP Course Suffix
UCEAP Official Title GENES, GENOMES, AND BIOMEDICAL IMPLICATIONS
UCEAP Transcript Title GENES & GENOMES
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course deals with the structure, organization and function of genes and genomes in both prokaryotes and eukaryotes (e.g. DNA topology, hierarchy of packaging of DNA in chromosomes and relationship to gene activity and genome dynamics). The functional roles of DNA regulatory cis-elements and transcription factors involved in gene expression is examined. The molecular events in the control and regulation of transcription; post-transcriptional modifications and RNA processing; temporal and spatial gene expression will be examined in detail. The cause and/or effect of dysfunction of gene expression in diseases is discussed.

Language(s) of Instruction
English

Host Institution Course Number
LSM3220

Host Institution Course Title
GENES, GENOMES AND BIOMEDICAL IMPLICATIONS

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Biological Sciences

Course Last Reviewed

2023-2024

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