COURSE DETAIL

MOLECULAR GENETICS

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
153

UCEAP Course Suffix

UCEAP Official Title
MOLECULAR GENETICS

UCEAP Transcript Title
MOLECULAR GENETICS

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description

The course covers topics on the patterns of inheritance, the molecular properties of genes and chromosomes, transcription and translation, genetic methods and technology, and genetic analysis of individuals and populations. This includes an in-depth understanding of Mendelian patterns of inheritance and variations that could occur due to multiple alleles, lethal genes, chromosomal variations, linkage, gene interaction and other genetic phenomena. Emphasis is placed on the understanding of the underlying molecular and biochemical basis of inheritance. Quantitative and population genetics are also discussed with the emphasis of understanding the processes and forces in nature that promote genetic change.

Language(s) of Instruction
English

Host Institution Course Number
LSM2105

Host Institution Course Title
MOLECULAR GENETICS

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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