642 ZOO

Advanced Cytology (0+2) 2

Cell membranes and their principal functions. Cell organelle's functions and the relationship between them. The cytoskeleton and its role in cell support and transport. Cell development and differentiation and factors affecting its growth. The nucleo cytoplasmic interactions. Properties and types of cell cancer.

Introduction	1/9/2025
Lecture 1	8/9/2025
Lecture 2	15/9/2025
Lecture 3	22/9/2025
HOMEWORK 1	29/9/2025
Lecture 4	6/10/2025
Lecture 5	13/10/2025
Techniques	20/10/2025
Lecture 6	27/10/2025
Lecture 7	3/11/2025
HOMEWORK 2	10/11/2025
Lecture 8	17/11/2025
Scientific paper	24/11/2025
General discussion	1/12/2025
Final exam	8/12/2025

Scientific paper should include cell cultures and Gel electrophoresis and Western blotting Or cell cultures and PCR

(points 15) HOMEWORK 1	29/9/2025
(20 points) Techniques	20/10/2025
(15 points) HOMEWORK 2	10/11/2025
(10 points) Scientific paper	24/11/2025

Techniques

GEL ELECTROPHORESIS and WESTERN BLOT

HOMEWORK 1

Ribosomes and Mitochondria (structure, function and diseases).

HOMEWORK 2

DNA replication and errors