

Republic of Iraq
The Ministry of Higher
Education
& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala
College: Agriculture
Department: Animal poroduction
Stage: 4
Lecturer name: zaid Mohammed
Mahdi
Qualification: Assist prof.
Place of work: Coll. Of Agriculture

Flow up of implementation celli pass play

Course Instructor	Dr. Zaid Mohmmmed Mahdi				
E-mail	zaidmahdi@uodiyala.edu.iq				
Title	Molecular biology				
Course Coordinator	Spring Course				
Course Objective	Learn importance of molecular genetic to using it at selection tool in animal breeding .				
Course Description	know of molecular genetics , Structure of DNA , Replication of DNA , Gene expression , study of PCR,Electrophoresis,Genetic engineering				
Textbook	Molecular Genetic Principles of genetic engineering				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	20%	15%	5%		60%
General Notes	The system to Article quarterly rather than annually and offers during the spring				

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week	Date	Topics Covered	Practical Part
1	1 st week	Chemical and physical Structure of DNA	DNA Extraction
2	2 nd week	Experimental of DNA	DNA extraction
3	3 rd week	Replication of DNA	Teqnical of PCR
4	4 th week	Gene expression	Types of PCR
5	5 th week	Regulation of Gene expression in Eu. And Pro.	Types of PCR
6	6 th week		Component of PCR
7	7 th week	Genetic mutation and their types	Principles of DNA
8	8 th week	Repair of DNA	
9	9 th week	Determined of DNA sequencing	White Primers
10	10 th week	Genetic engineering Restriction of enzyme	Type of Primers
11	11 th week	Markers of DNA	Electrophoresis
12	12 th week	Technical of RFLP	Electrophoresis
13	13 th week		Components of electrophoresis
14	14 th week	Technical of RAPD	Product visualization
15	15 th week	Review of the article	Molecular operation

Assist prof. Dr.
Zaid Mohammed Mahdi
15/1/2025

Dean Signature:
Prof. Dr. Raed Ibrahim Khalil
15/1/2025