

Bio3950 - Principles of Biotechnology

Date	Day	Lecture	Links	Lab	Skills & Resources
22-Apr	M	History of DNA & Biotechnology	History of DNA & Biotechnology	Introductions; Notebooks; Use of pipettes; Gel electrophoresis	Working with small volumes
23-Apr	Tu	Structure of DNA	Structure of DNA	3D model DNA structure & function	Quantitation in molecular biology
24-Apr	W	Intro to PCR & Primer Design. Start PCR	Primer design;	qPCR demo: 1330 - 1500	Retrieve PCR; cleanup
25-Apr	Th	Genetic Engineering	Genetic Engineering	PCR electrophoresis; cleanup & RE analysis	NCBI Primer Blast
26-Apr	Fr	Genetic Engineering		DNA Bioinformatics: sequence retrieval & alignment	
29-Apr	M	Genetic Engineering	Genetic Engineering	DNA Bioinformatics: NCBI resources	RestrictionMapper
30-Apr	Tu	Biotechnology		Restriction Analysis & Mapping	MEGA
01-May	W	Biotechnology	Genomics & Proteomics	DNA continued	MEGA
02-May	Th	Biotechnology		DNA continued	
03-May	Fr	Intro to eDNA	TBA	eDNA bioinformatics	BOLD
06-May	M	Intro to CRISPR		CRISPR	
07-May	Tu	Intro to CRISPR		CRISPR	
08-May	W	TBA		CRISPR bioinformatics	
09-May	Th	TBA		TBA	
10-May	Fr	Final Exam		TBA: <i>GATTACA</i> (1977)	