Lab Three:.

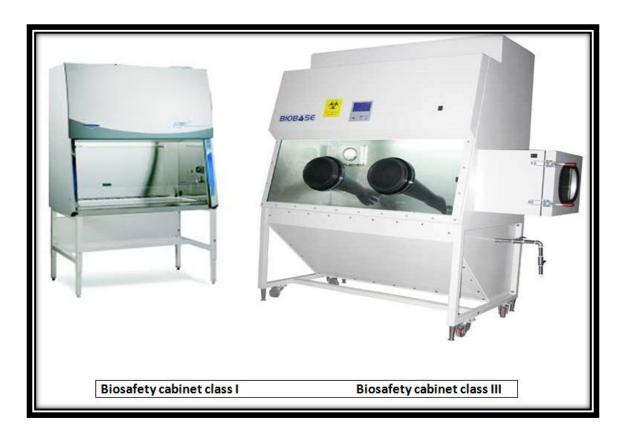
instruments and equipments in molecular lab

Biosafety cabinet (BSC): is an enclosed, ventilated laboratory workspace for safely working with materials contaminated with (or potentially contaminated with) pathogens requiring a define biosafety level. it found three classes of BSC depending on (providing safety to person, environment and samples)

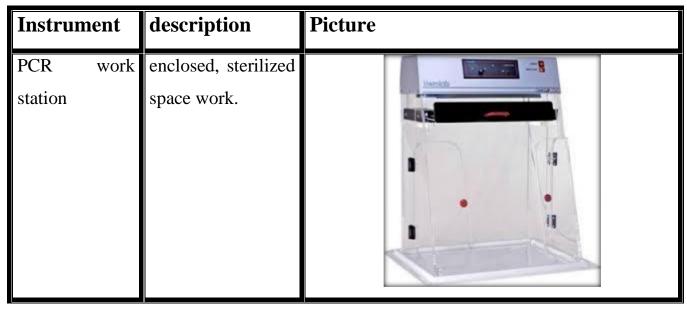
class I: provide safety to person and environment only.

class II: provide safety to person, environment and samples.

class III: provide safety to person, environment and samples, generally only installed in maximum containment laboratories, is specifically designed for work with more dangerous pathogen like viruses.







Vortex shaker	To mix the reaction continent	
Cool centrifuge	To participate cell continent	Spraul
Conventional PCR	To amplified DNA molecules (quality identification)	

Real-time PCR	To amplified DNA molecules and measuring gene expression(quality and quantity identification)	SECRETARISMON AND ADMINISTRATION
Nanodrop	To measuring nucleic acid concentration and purity	
Gel electrophoresis	To separate nucleic acid and protein with molecular weigh less than 10000 bp	

Pulse gel electrophoresis	To separate nucleic acid and protein with molecular weigh more than 10000 bp	Pippmi, Pulse' Pippmi, Pulse' Pippmi, Pulse'
UV- Transilluminat or	To detect nucleic acid and protein were separated in gel electrophoresis run	ANP AND
DNA sequencer	To determine sequence of nucleotide in DNA strand	
Deep freeze	To keep biological material in low temperature	

Micropipettes in different size	To transfer the appropriate amount of volumes	02-2 µL 1-10 µL 1-10 µL 1-10 µL 10-100 µL 20-200 µL 10-1000 µL 10-100 µL 10-100 µL 10-100 µL 10-100 µL 20-200 µL
	To keep and holder	
of eppendorf tubes	samples in experiment	