

# Labs and Instruments for Interdisciplinary Research at UOG

## 1- Research Labs





**2- Culture Room**



### 3- Molecular Biology Lab



**4- Fermentation Lab**



# Instruments:

## Visible Spectrophotometer



## UV Spectrophotometer

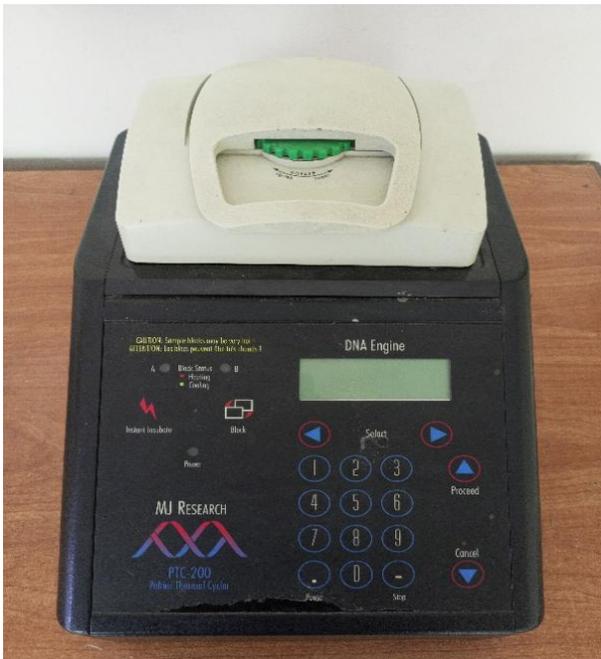


## Shaking, Non Shaking & Laboratory Incubators





## PCR Machines



**Micro centrifuge**



**pH Meter**



**Centrifuge Machine**



**Furnace**



**HPLC**



**FTIR**



Instrument and Application	Model/company	Image
<p>High-Performance Liquid Chromatography (HPLC)</p> <p>Analysis based on separation of organic non-volatile compounds for qualitative and quantitative analysis</p>	<p>SPD-20A prominence SHIMADZU Japan</p>	
<p>Gas Chromatography-Mass Spectrometer GC-MS</p> <p>Analysis based on separation of organic volatile compounds for qualitative and quantitative analysis</p>	<p>GC-MS QP 2010 plus SHIMADZU Japan</p>	
<p>Spectro Fluorophotometer</p> <p>Analysis based on the light emission principle of organic compounds for qualitative and quantitative analysis</p>	<p>RF-6000 SHIMADZU Japan</p>	
<p>Atomic Absorption Spectrophotometer</p> <p>Analysis of Metals in the food and environmental matrixes for qualitative and quantitative analysis</p>	<p>AA-6300 SHIMADZU Japan</p>	
<p>Potentiostat</p> <p>Analysis based on Electronic potential Cyclovoltammetry Potentiometry Impedance qualitative and analysis</p>	<p>G-300 Galvanostat Potentiostat/ZRA</p>	
<p>Tube Furnace</p> <p>Thermal analysis of material for material characteristics</p>	<p>DAIHAN Scientific Furnace</p>	

Instrument	Image
Double Beam UV-VIS Spectrophotometer	 A double beam UV-VIS spectrophotometer, primarily white with blue accents, is positioned on a dark wooden desk. To its right, a computer monitor displays a software interface, with a keyboard and mouse also visible on the desk.
Photoluminescence (PL) spectroscopy	 A photoluminescence (PL) spectroscopy instrument, white with blue accents and labeled 'PR-3200', sits on a light-colored wooden desk. A computer monitor, keyboard, and mouse are also present on the desk.
Photocatalytic reactor	 A photocatalytic reactor, a large white cabinet-like unit with a control panel on top, is situated in a laboratory. The control panel features several digital displays and buttons. A white cable is connected to the front of the unit. In the background, there are bookshelves filled with books and a green cabinet.
UV-Vis spectrophotometer	 A UV-Vis spectrophotometer, model UV-1800, is shown from a front-facing perspective. It has a white top and a grey control panel with a small LCD screen and a numeric keypad. The brand name 'SHIMADZU' is visible at the top of the instrument.

Raman Spectroscopy



GAMRAY INSTRUMENTS

