



جامعة الإمام عبد الرحمن بن فيصل

IMAM ABDULRAHMAN BIN FAISAL UNIVERSITY

مركز أبحاث العلوم الطبية الانتقالية  
TRANSLATIONAL MEDICAL RESEARCH CENTER

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# SERVICES & EQUIPMENT



مركز أبحاث العلوم الطبية الانتقالية  
Translational Medical Research Center

# | SERVICES

## LAB

## DESCRIPTION

<b>Cell and Molecular Biology Research Lab</b>	<ul style="list-style-type: none"><li>Cell Culture &amp; Maintenance</li><li>Human PBMC Isolation &amp; Culture</li><li>Human Gingival Fibroblast Isolation</li><li>Dental Pulp Stem Cell Isolation</li><li>Flow Cytometry</li><li>Real-time PCR (qPCR)</li><li>DNA/RNA Extraction &amp; Quantification</li><li>Western Blot Imaging</li><li>Fluorescence Microscopy</li><li>Microplate ELISA Reading</li><li>Cell Viability Counting</li><li>pH/ISE/Conductivity</li></ul>
<b>Bioimaging Research Lab</b>	<ul style="list-style-type: none"><li>Sample Coating for SEM</li><li>Micro-CT Sample Preparation</li><li>SEM Imaging</li><li>Micro-CT Scanning</li><li>DEXA Analysis</li></ul>
<b>Bioinformatics and AI Research Lab</b>	<ul style="list-style-type: none"><li>NGS Data Analysis</li><li>Molecular Docking</li><li>Molecular Dynamics Simulations</li><li>Bioinformatics Pipeline Design</li><li>Data Visualization</li></ul>
<b>Biobank Lab</b>	<ul style="list-style-type: none"><li>Biobank Storage -30 OR -80 (Short term; up to 3 months)</li><li>Biobank Storage -30 OR -80 (Long term; up to 1 year)</li><li>Biobank Storage -150 OR Liquid Nitrogen (Short term; up to 3 months)</li><li>Biobank Storage -150 OR Liquid Nitrogen (Long term; up to 1 year)</li></ul>

# EQUIPMENT

LAB	DESCRIPTION
<p><b>Cell and Molecular Biology Research Lab</b></p>	<p>Inverted microscope with Fluorescence Camera            BIORAD ChemiDoc Imaging System            Microplate Absorbance Spectrophotometer            Microplate Washer            Flow Cytometer            NucleoCounter® NC-202™            Heracell VIOS 160i CO<sub>2</sub> Incubator 165L            Biosafety cabinet Class II A2            Real-time PCR            Agilent 2100 Bioanalyzer            TissueLyser III with Accessories            NanoDrop™ Microvolume UV-Vis Spectrophotometer            Orion™ Versa Star Pro™ pH/ISE/Conductivity meter</p>
<p><b>Bioinformatics and AI Research Lab</b></p>	<p>Standard-bioinformatic computer workstation            General-purpose computer workstation</p>
<p><b>Biobank Lab</b></p>	<p>Laboratory freezer -30            Freezer -86°C (650L)            Liquid Nitrogen Tank LN2 Dewar Cryogenic Container            Laboratory freezer -40 (530L)            Ultra-Low Temperature -86°C GP Freezer            Minus 150 Cryogenic Freezer Chest type            CurranTaylor™ Scotsman™ FLAKER Ice Maker</p>
<p><b>Bioinformatics and AI Research Lab</b></p>	<p>Bench-top scanning electron microscope (SEM)            InAlyzer DEXA            Ion Sputter Coater G20            Micro-CT SkyScan 1172</p>



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