




Scientific Research Instruments in NMR Unit


| | | | |
|---------------------------------|-------------------------------------|----------------|----------------------|
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| Instrument | Bruker FT-NMR Spectrometer | |
|--------------|--|--|
| Model | Ascend 400 MHZ with Avance III HD console |  |
| Uses | Used in quality control and research, for determining the content and purity of a sample as well as its molecular structure. | |




Scientific Research Instruments in Department of Biochemistry.


| | | | |
|----------------------------------|--|--------------------|--|
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| Instrument | Centrifuge | |
|--------------|--|--|
| Model | 2-16 P |  |
| Uses | separate two fluids different in density or to separate solids from fluids | |


| Instrument | Centrifuge | |
|--------------|--|--|
| Model | 80-2 |  |
| Uses | separate two fluids different in density or to separate solids from fluids | |




| Instrument | Centrifuge | |
|------------|--|---|
| Model | Z206A |  |
| Uses | separate two fluids different in density or to separate solids from fluids | |


| Instrument | Hot Stirrer | |
|------------|--|---|
| Model | TSEY 2806-21 |  |
| Uses | Used for heating and stirring a reaction or a mixture. | |


| Instrument | Kinetic colorimetric assay | |
|------------|---|--|
| Model | Prietest Eco |  |
| Uses | colorimetric assays determination of the enzyme activity by optical density | |


| Instrument | Vortexer | |
|------------|--|--|
| Model | PTC |  |
| Uses | Agitates samples to encourage chemical reactions or homogenization | |




| Instrument | ELISA reader | |
|------------|---|---|
| Model | SN 211227 | |
| Uses | measuring antibody tests. protein and enzyme assays, HIV detection and quantitation of nucleic acid |  |


| Instrument | Binocular microscope | |
|------------|------------------------------------|---|
| Model | XSZ-107BN | |
| Uses | viewing and cut down on eye strain |  |


| Instrument | Spectrophotometer | |
|------------|--|---|
| Model | UVD2950 | |
| Uses | Measuring the intensity of light as a beam of light passes through sample solution. measure the amount of a known chemical substance |  |


| Instrument | Spectrophotometer | |
|------------|--|---|
| Model | SV1600 | |
| Uses | Measuring the intensity of light as a beam of light passes through sample solution. measure the amount of a known chemical substance |  |




| Instrument | Spectrophotometer | |
|------------|--|---|
| Model | S1200 |  |
| Uses | Measuring the intensity of light as a beam of light passes through sample solution. measure the amount of a known chemical substance | |


| Instrument | Electronic Balance | |
|------------|---|---|
| Model | FR-H600 |  |
| Uses | accurate measurement of weight of materials | |


| Instrument | Electronic Balance | |
|------------|---|---|
| Model | CY204 |  |
| Uses | accurate measurement of weight of materials | |


| Instrument | Oven | |
|------------|---|---|
| Model | 215 G |  |
| Uses | used to sterilize biohazard waste, dissecting instruments or media/reagents for aseptic assays. | |




| Instrument | ELISA Shaker: ELISA | |
|------------|---|---|
| Model | VRN-210 |  |
| Uses | Mixing microtitre plates and microtubes for a variety of assays | |


| Instrument | Water Bath | |
|------------|---|---|
| Model | Versa Barz |  |
| Uses | incubate samples at a constant temperature over a long period of time | |


| Instrument | Digital Orbital Shaker | |
|------------|--|---|
| Model | SHO-2D |  |
| Uses | shaking applications in cell culture, bacterial growth and suspension, staining and washing procedures | |

| Instrument | Dry Block Heaters | |
|------------|---|---|
| Model | DB-006 |  |
| Uses | Digital block heater for one aluminum block provides precise temperature control in small vessels | |




| Instrument | pH Meter | |
|------------|--|---|
| Model | AD1030 |  |
| Uses | Used to measure hydrogen ion activity in solutions | |


| Instrument | Spectrophotometer | |
|------------|---|---|
| Model | 6850 UV/VIS |  |
| Uses | the amount of a known chemical substance (concentrations) can also be determined measuring the intensity of light detected. | |


| Instrument | A laminar flow cabinet | |
|------------|--|---|
| Model | |  |
| Uses | for applications requiring a sterile work space whereas contaminant access is being prevented by a constant filtered airflow across the surface. | |


| Instrument | CO2 incubators | |
|------------|----------------|--|
| Model | | |
| Uses | | |




| Instrument | CO2 incubators | |
|------------|--|---|
| Model | 9040-0078 |  |
| Uses | Maintain an optimal environment for cell growth, by providing carbon dioxide control in a humidified atmosphere with constant temperature. | |


| Instrument | Inverted Microscope | |
|------------|---|---|
| Model | CKX41 |  |
| Uses | Suitable for regular cell observation in tissue culture | |


| Instrument | StepOnePlus™ Real-Time PCR | |
|------------|--|---|
| Model | 2720011482 |  |
| Uses | used to amplify and simultaneously quantify a targeted DNA molecule. | |


| Instrument | Fuji X Ray Film Processor | |
|------------|---|---|
| Model | FPM-100A |  |
| Uses | A device designed to move medical X-ray films from one solution to the next, in the film developing process | |




| Instrument | Thermal Cycler | |
|------------|--|---|
| Model | T100TM Thermal Cycler |  |
| Uses | used to amplify segments of DNA via the polymerase chain reaction (PCR). | |

| Instrument | -20 C freezer | |
|------------|---------------|---|
| Model | E250N |  |
| Uses | freezing | |

| Instrument | -80 C freezer | |
|------------|-------------------|--|
| Model | |  |
| Uses | Freezing at -80 C | |

| Instrument | Microscope | |
|------------|---|--|
| Model | Optika SZM |  |
| Uses | used to examine objects that are too small to be seen by the naked eye. | |





| Instrument | Rotating Mixer | |
|------------|--|---|
| Model | NR50E | |
| Uses | Used for a wide variety of mixing needs. |  |




Scientific Research Instruments in Central Laboratory

| | | | |
|---------------------------------|-------------------------------|----------------|------------------------|
| Name of Department | Central lab | Tel: | 25144 |
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| Location of Laboratory | Building (D) | E-mail: | weaamnabil@mans.edu.eg |
| Research/Lab Coordinator | Ahmed Mohsen Attia | Mobile | 01003584463 |

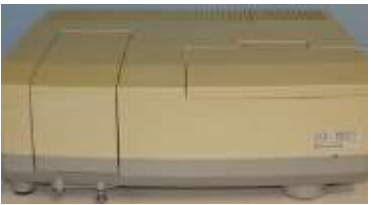
| Instrument | FT/IR Spectrometer | |
|--------------|---|---|
| Model | Nicolet is 10 |  |
| Uses | <p>تعيين التركيب وتحديد المجموعات الوظيفية للمركبات والسموم والملوثات المختلفة باستخدام الاشعة تحت الحمراء.</p> | |


| Instrument | Centrifuge | |
|--------------|--|---|
| Model | Sigma 2-16P |  |
| Uses | <p>الطرد المركزي لترسيب المركبات أو الملوثات المختلفة قبل إجراء التجارب عليها.</p> | |

| Instrument | FT/IR Spectrometer (ATR) | |
|--------------|---|---|
| Model | Nicolet is 10 |  |
| Uses | <p>تستخدم هذه القطعة في عمل العينات بأنواعها المختلفة سواء كانت Powder/Liquid/Metal دون الحاجة الى استخدام ال KBr وذلك باستخدام الأشعة تحت الحمراء.</p> | |

| Instrument | NanoDrop | |
|--------------|---|---|
| Model | Bio Drop |  |
| Uses | <p>تقدير تركيز ونقاوة الحمض النووي في المواد DNA.</p> | |



| Instrument | UV/Visible spectrophotometer | |
|------------|--|---|
| Model | SHIMADZU PC-1601 |  |
| Uses | القياس الطيفي للأشعة فوق البنفسجية للمركبات والملوثات البيئية وملوثات الماء والهواء. | |

| Instrument | High performance liquid chromatography (HPLC) | |
|------------|---|---|
| Model | Knauer- Azura |  |
| Uses | تحليل الملوثات الغذائية وملوثات الماء والهواء ورصد المواد السامة البيئية التي قد تهدد السلامة المهنية أو الصحة كما أو كيفا. | |

| Instrument | Freeze dry system | |
|------------|--|--|
| Model | Labconco |  |
| Uses | يستخدم في تجفيف المواد السائلة وتحويلها إلى بودة في درجة حرارة أقل من - ٥٠ درجة مئوية. | |


| Instrument | Freeze dry system | |
|------------|--|--|
| Model | Edwards |  |
| Uses | يستخدم في تجفيف المواد السائلة وتحويلها إلى بودة في درجة حرارة أقل من - ٥٠ درجة مئوية. | |




| Instrument | جهاز تقطير المياه | |
|------------|---|---|
| Model | HAMILTON | |
| Uses | تقطير وتحضير المياه المقطرة المستخدمة في إجراء القياسات والأبحاث. |  |

| Instrument | OVEN | |
|------------|--|---|
| Model | Binder | |
| Uses | يستخدم في تجفيف العينات والادوات في درجة حرارة تصل الى ٣٠٠ درجة. |  |


| Instrument | Gas Chromatography | |
|------------|---|---|
| Model | Varian-3800CP | |
| Uses | قياس نسبة التلوث وتركيز الملوثات المتطايرة في الهواء والغذاء. |  |


| Instrument | GC/MS | |
|------------|---|--|
| Model | Thermo scientific | |
| Uses | قياس نسبة التلوث وتركيز الملوثات المتطايرة في الهواء والغذاء. |  |




| Instrument | Barnstead easy pure rodi | |
|------------|--|---|
| Model | Thermo scientific |  |
| Uses | تقطير وتحضير المياه المقطرة لإذابة أو إضافة المركبات أو الملوثات قبل إجراءات القياسات عليها. | |

| Instrument | Vortex mixer | |
|------------|---|---|
| Model | UM-300P |  |
| Uses | خلط وتقليب العينات من الملوثات والمركبات المختلفة قبل قياسها. | |


| Instrument | Electronic Balance | |
|------------|---|--|
| Model | PGW 253I - AE Adam |  |
| Uses | الوزن الدقيق للعينات قيد التحليل بالمليجرام قبل وبعد إجراء التحاليل والقياسات المختلفة. | |


| Instrument | Ice Maker | |
|------------|---|--|
| Model | Vision Scientific |  |
| Uses | تصنيع ثلج لزوم التجارب التي تحتاج لذلك. | |




| Instrument | UltraSonic Cleaner | |
|------------|---|---|
| Model | MTI Corporasion |  |
| Uses | ازاله فقاعات الهواء من المحاليل المستخدمه في الاجهزة المعملية. | |


| Instrument | High performance liquid chromatography (HPLC) | |
|------------|--|---|
| Model | Perkin Elmer |  |
| Uses | تحليل الملوثات الغذائية وملوثات الماء والهواء ورصد المواد السامة البيئية التي قد تهدد السلامة المهنية أو الصحة كما أو كيفاً. | |

| Instrument | UV-visible spectrophotometer | |
|------------|---|---|
| Model | Dynamica Halo DB-20 |  |
| Uses | القياس الطيفي للأشعة فوق البنفسجية للمركبات والملوثات البيئية وملوثات الماء والهواء. | |

| Instrument | Electronic Balance | |
|------------|---|---|
| Model | SHIMADZU |  |
| Uses | الوزن الدقيق للعينات قيد التحليل بالمليجرام قبل وبعد إجراء التحاليل والقياسات المختلفة. | |



| Instrument | PH-Meter | |
|------------|---|---|
| Model | ACCULAB PH-27B |  |
| Uses | قياس الأس الهيدروجيني (درجة الحموضة أو القاعديه) للمواد المستخدمه على الأجهزة المختلفة. | |


| Instrument | Melting Point | |
|------------|---|---|
| Model | Bibby scientific |  |
| Uses | يستخدم الجهاز في تحديد درجة الانصهار للمواد المختلفة. | |

| Instrument | Filtration Unit | |
|------------|---|--|
| Model | Rocker300 |  |
| Uses | يستخدم الجهاز في تنقيه وفلتره المواد المختلفه المستخدمه على جهاز HPLC | |



Scientific Research Instruments in Clinical Pharmacy


| | | | |
|--------------------------|---|---------|--------------------|
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| Research/Lab Coordinator | - | - | - |


| Instrument | -80 C refrigerator | |
|------------|--|--|
| Model | 500 VF (E2.1) ultra. guard™ ultra low temperature freezer (binder) |  |
| Uses | Refrigerator for biological samples storage | |




Scientific Research Instruments in Department of Medicinal Chemistry


| | | | |
|--------------------------|----------------------------|---------|--|
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| | Dr. Ahmed R. Ali | Mobile | 01098384072 |
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| Instrument | Digital Dihan hotplate with magnetic stirrer | |
|------------|--|--|
| Model | MSH 20D 180×180MM plate |  |
| Uses | Heating with stirring and timer | |


| Instrument | Dihan hotplate with magnetic stirrer | |
|------------|--------------------------------------|--|
| Model | MSH 20a 180×180MM plate |  |
| Uses | Heating with stirring | |




| Instrument | Melting point apparatus | |
|------------|-----------------------------|---|
| Model | SMP 30 |  |
| Uses | Measuring the Melting point | |


| Instrument | Rotary valve and adsorber exchange | |
|------------|--|---|
| Model | Stuart Cole-palmer LTD Cat. No.: RE400DB |  |
| Uses | Evaporation of various solvents | |


| Instrument | Pump for rotavap | |
|------------|---|---|
| Model | BrandTech™ VACUUBRAND™ VARIO™ PC3000 |  |
| Uses | Used with the Rotavap for Evaporation of various solvents | |


| Instrument | Pump for rotavap | |
|------------|---|--|
| Model | Rocker 400 Cat. No.: 167400-22 |  |
| Uses | Used with the rotavap for Evaporation of various solvents | |




| Instrument | Oven Electronic with micro-processor | |
|------------|---|---|
| Model | Titanox |  |
| Uses | Drying glassware | |


| Instrument | Ice Maker | |
|------------|-------------------|---|
| Model | BREMA ice maker |  |
| Uses | Generation of ice | |


| Instrument | UV-Lamp | |
|------------|---|---|
| Model | VL-6.LC 6W-365nm Tube 6W-254nm Tube |  |
| Uses | TLC visualization | |


| Instrument | Bell Italy precision balance | |
|------------|------------------------------|---|
| Model | SS2.3520g |  |
| Uses | Balance resolution 0.001 | |



| Instrument | Bell Italy analytical balance | |
|------------|-------------------------------|---|
| Model | M214AI |  |
| Uses | Balance resolution 0.0001 | |

| Instrument | Buchi Switzerland rotavapor | |
|------------|--|---|
| Model | R 215 Supply with drive unite, Quick action jack Heating bath B491, with digital display |  |
| Uses | Evaporation of various solvents | |


| Instrument | Spectro UV-VIS Double Beam PC Scanning Spectrophotometer | |
|------------|---|---|
| Model | UVD-2950 (LABOMED,INC) |  |
| Uses | quantitative measurement of the reflection or transmission properties of a material as a function of wavelength | |

| Instrument | Spectrofluorometer | |
|------------|---------------------------------------|---|
| Model | RF-1501 (SHIMADZU) |  |
| Uses | qualitative and quantitative analysis | |




Scientific Research Instruments in Department of Microbiology and Immunology

| | | | |
|---------------------------------|---|---------------|---------------------------------|
| Name of Department | Microbiology and Immunology | Tel: | 25037 |
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| | | E-mail | Sayedhabib2011@yahoo.com |
| Location of Laboratory | B second floor Building | | |
| Research/Lab Coordinator | Salah Elhawary | Mobile | 01222661726 |


| Instrument | Shaking incubator + flask clamp | |
|--------------|--|--|
| Model | S14-2 |  |
| Uses | لتوفير درجة الحرارة المناسبة لنمو الميكروبات المزروعة في الوسط المناسب لها | |

| Instrument | Incubator (static + shaker) | |
|--------------|--|--|
| Model | New Brunswick Scientific |  |
| Uses | لتوفير درجة الحرارة المناسبة لنمو الميكروبات المزروعة في الوسط المناسب لها | |




| Instrument | Static incubator | |
|------------|--|---|
| Model | Lab-Line Imperial II incubator |  |
| Uses | لتوفير درجة الحرارة المناسبة لنمو الميكروبات المزروعة في الوسط المناسب لها | |


| Instrument | Hot air oven | |
|------------|------------------|---|
| Model | PS.3A |  |
| Uses | لتعقيم الزجاجيات | |


| Instrument | Autoclave | |
|------------|---------------------------------------|--|
| Model | CRYTE PURI STER |  |
| Uses | لتعقيم الميديا و المحاليل و البلاستيك | |

| Instrument | Laminar flow Supplied with Bunsen flame, air filters, white and UV lamp | |
|------------|---|--|
| Model | ESCD EN 1822.1 |  |
| Uses | للحصول علي الهواء النقي المعقم مناسب لزراعة الميكروبات | |




| Instrument | Thermocycler devices | |
|------------|--|---|
| Model | PROFLEX BASE |  |
| | Acculab TC96K | |
| Uses | لعمل نسخ جديدة و مطابقة من أجزاء حمض DNA | |

| Instrument | Real-time PCR device Qiagen | |
|------------|---|---|
| Model | Rotor Q gene |  |
| | | |
| Uses | لقياس كمية التسلسل المستهدف بالزمن الحقيقي - يقيس كميات بدأ ال DNA او RNA و عدد النسخ في العينة | |

| Instrument | Lap top device | |
|------------|--|--|
| Model | FUJITSU SIEMENS COMPUTERS GmbH |  |
| | | |
| Uses | متصل بجهاز ال- time PCR لإظهار النتائج | |


| Instrument | pH meter device | |
|------------|----------------------|--|
| Model | JENWAY 3510 |  |
| | | |
| Uses | لقياس ال pH للمحاليل | |




| Instrument | monocular microscope with magnification lenses 10x, 40x and 100x | |
|------------|--|---|
| Model | model cxi labomed (USA) |  |
| Uses | لتكبير و فحص الخلايا و الاجسام الصغيرة التي لا تري بالعين المجردة | |


| Instrument | RT Centrifuge device for falcons | |
|------------|---|---|
| Model | MINOR MSE |  |
| Uses | لفصل الجسيمات عن المحاليل وفقا لحجمها و شكلها و كثافتها و لزوجة الوسط الذي توضع فيه و سرعة الجهاز بالطرد المركزي عند درجة حرارة الغرفة | |


| Instrument | RT Centrifuge device for eppendorfs | |
|------------|---|--|
| Model | TGL-16G |  |
| Uses | لفصل الجسيمات عن المحاليل وفقا لحجمها و شكلها و كثافتها و لزوجة الوسط الذي توضع فيه و سرعة الجهاز بالطرد المركزي عند درجة حرارة الغرفة | |

| Instrument | Cooling centrifuge device | |
|------------|--|--|
| Model | CENTURION 22r |  |
| Uses | لفصل الجسيمات عن المحاليل وفقا لحجمها و شكلها و كثافتها و لزوجة الوسط الذي توضع فيه و سرعة الجهاز بالطرد المركزي عند درجة حرارة صفر فيما اقل | |




| Instrument | Hot plate | |
|------------|--|---|
| Model | THERMOLYNE-CIMARIC |  |
| Uses | للتسخين و تحويل الميديا الصلبة الي السائلة | |


| Instrument | Hot plate with magnetic stirrer | |
|------------|--|---|
| Model | jeio tech (lab companion) korea |  |
| Uses | تسخين و اذابة الميديا الصلبة مع التقليب بالمحرك المغناطيسي | |


| Instrument | COLORIMETER MODEL CO7500 COLOUR WAVE | |
|------------|--------------------------------------|---|
| Model | WPA CO 7500 |  |
| Uses | لقياس الطيف الضوئي للعينات | |


| Instrument | ELISA device | |
|------------|--|--|
| Model | BIOTEK ELX 800 |  |
| Uses | التشخيص الطبي في مجال علم الامصال و - اكتشاف اي مادة في دم المريض بواسطة ربط الاجسام المضادة بواسطة ربطها بالبروتين المحدد الذي تقوم باستهدافه | |




| Instrument | Analytical balance | |
|------------|--------------------|---|
| Model | cy204-citizen |  |
| Uses | لقياس الوزن | |


| Instrument | Refrigerators | |
|------------|--|---|
| Model | كريزي وسامسونج |  |
| Uses | لحفظ الميكروبات النامية في الوسط الخاص بها و المحاليل المستخدمة في الابحاث العلمية | |


| Instrument | -80 C Freezer | |
|------------|---|--|
| Model | BINDER UFB 700 |  |
| Uses | للاحتفاظ بالميكروبات في صورة جليسرول مجمد | |

| Instrument | -20 C Deep freezer | |
|------------|--|--|
| Model | White- Whale (No frost) |  |
| | Toshiba (No frost) | |
| Uses | للاحتفاظ بعينات البروتين, ال DNA, ال RNA, البرايمرز, DNA and protein markers | |




| Instrument | Gel electrophoresis sub marine | |
|------------|--|---|
| Model | CLEAVER SCIENTIFIC |  |
| Uses | لفصل عينات ال DNA و ال RNA بالترحيل الكهربي الهلامي طبقا الي الحجم الخاص بالعينة. | |

| Instrument | UV-Transilluminator | |
|------------|--|---|
| Model | modilgeldoc 1.4 acculabusa professional digital ccd to ensure aclerimge |  |
| Uses | لرؤية عينات ال DNA او ال RNA المفصولة علي ال gel بعد الترحيل الكهربي الهلامي و التقاط صورة لها بكاميرا الجهاز | |

| Instrument | Computer device | |
|------------|--|---|
| Model | HP COMPAQ DC 7600 |  |
| Uses | واحد متصل بجهاز ال ELIS, واحد متصل بجهاز ال gel documentation system, واحد في حجرة امين معمل الابحاث | |


| Instrument | ماصات اتوماتيك (١٠٠-١٠٠٠ ميكروليتر/ ٢-١٠ ميكروليتر / ١٠-١٠٠) | |
|------------|--|---|
| Model | DLAB SCIENTIFIC CO |  |
| Uses | لسحب السوائل بالكمية الدقيقة المطلوبة | |



| Instrument | SDS-PAGE | |
|------------|---|---|
| Model | EXPEDEON MGV-202-33 |  |
| Uses | لفصل عينات بروتين بالترحيل الكهربائي الهلامي طبقا الي الحجم الخاص بها | |

| Instrument | Western blot | |
|------------|---|---|
| Model | ROTH KARLSRUHE |  |
| Uses | تقنيه حيوية مستخدمة لدراسة بروتين معين في عينة تحتوي علي انواع اخري من البروتينات و تصنيفها طبقا الي الوزن الجزئي لها عن طريق الترحيل الكهربائي الهلامي | |


| Instrument | power supply cleaver scientific | |
|------------|--|---|
| Model | (omimi di bok 300v) uk |  |
| Uses | تحويل الطاقة الكهربائية الي الشكل المناسب لدوائر الحاسوب | |


| Instrument | Vortex | |
|------------|--------------------------------------|---|
| Model | STUART SCIENTIFIC |  |
| Uses | لخلط و تقليب قارورة صغيرة من السوائل | |



| Instrument | Water Bath | |
|------------|---|---|
| Model | KOTTERMANN 334565 |  |
| Uses | لإذابة المواد الغير قابلة للتعرض للهب المباشر | |

| Instrument | Microarray hybridization cassette AHC1X24 خاص بجهاز الميكرو اراى | |
|------------|--|---|
| Model | gasket GAHC4X24 |  |
| Uses | وعاء يتم عمل التفاعل فيه و يتحضرن داخل درجة الحرارة المطلوبة | |

| Instrument | Microarray Colorimetric Scanner | |
|------------|--|---|
| Model | 220 v - Scan Resol : 5, 10, 20 and 50 µm - Stan format : 25 x 76 x 1 mm - Reads up to 12 micro - Standard 16-bit TIFF - Range: > 7 logs (10,000,000- fold) |  |
| Uses | لقياس الطيف الضوئى للعينات | |


| Instrument | array plate multi -well microarray hybridization station 2 plate system for simultaneous reactions of up to 192 microarrays | |
|------------|---|--|
| Model | MMHS110V |  |
| Uses | لتحليل عدد من عينات الشفرة الوراثية في نفس الوقت | |



| Instrument | Sonicator | |
|------------|----------------------------|---|
| Model | JM 182 |  |
| Uses | لتكسير خلايا الميكروبات | |

| Instrument | Microwave | |
|------------|----------------------------------|---|
| Model | MS3043 |  |
| Uses | للتسخين وازابة الميديا الصلبة | |


| Instrument | Thermoshaker | |
|------------|---------------------------|--|
| Model | EMS 100 |  |
| Uses | تسخين مع تقليب العينات | |

| Instrument | Heat block | |
|------------|---|--|
| Model | Major science MD-02n-220 |  |
| Uses | تسخين العينات البيولوجية وغيرها بدرجة حرارة محددة | |





Scientific Research Instruments in Department of Pharmaceutical Organic Chemistry

| | | | |
|--------------------------|---|---------|--|
| Name of Department | Pharmaceutical Organic Chemistry | Tel: | ٢٥٠٥٣ |
| Head of Department | Prof. Dr. Shahenda Metwally Elmessery | Mobile | ٠١٠٠١١٤٢٦٣٦ |
| Location of Laboratory | Building C – 1 F & 2 F | E-mail: | habib2001@mans.edu.eg |
| Research/Lab Coordinator | Dr. Samar Samir Tawfik Dr. Dina Ibrahim Othman | | samarsamir1984@gmail.com dondn_21@hotmail.com |

| Instrument | Magnetic stirrer with hot plate | |
|------------|---|---|
| Model | ARE Hot plate stirrer |  |
| Uses | محرك مغناطيسي ومسخن لعمل التفاعلات الكيميائية | |

| Instrument | Binder - Oven (Hot Air Oven) | |
|------------|-----------------------------------|---|
| Model | ED115 |  |
| Uses | فرن لتسخين وتجفيف الزجاجيات | |

| Instrument | Flake laboratory ice maker | |
|------------|----------------------------|---|
| Model | model FIM 90 EVERmed |  |
| Uses | صناعه الثلج | |

| Instrument | Vacuu brand Chemistry two-stage diaphragm pump | |
|------------|--|---|
| Model | model MZ-1C |  |
| Uses | مضخه لسحب الهواء | |




| Instrument | Stuart Melting point apparatus (England) | | Instrument | BEL Analytical balance | |
|------------|--|--|------------|------------------------|--|
| Model | SMP30 | | Model | M214Ai | |
| Uses | قياس نقطه الانصهار لمواد | | Uses | وزن العينات | |


| Instrument | Instrument POL-EKO Laboratory refrigerator | |
|------------|---|--|
| Model | CHL 5 | |
| Uses | حفظ الكيماويات | |





Scientific Research Instruments in Department of Pharmaceutical Analytical Chemistry

| | | | |
|---------------------------------|--|--------------------|--------------------|
| Name of Department | Pharmaceutical analytical chemistry | Office Tel: | 25562 |
| Head of Department | Prof. Dr. Jenny Jeehan Nasr | Mobile | 01006545282 |
| Location of Laboratory | Pharm. Anal. Chem. Dept. 4 th Floor, Building C | E-mail: | nasrjj@mans.edu.eg |
| Research/Lab Coordinator | Ass. Prof. Dr. Mona El-Sayed Fathy | Mobile | 01097962522 |

| Instrument | Cary Eclipse Fluorescence Spectrophotometer with micro-plate reader | |
|--------------|---|---|
| Model | G9800A |  |
| Uses | Fluorescence detection of different materials | |

| Instrument | Destilador de agua / Water Still | |
|--------------|----------------------------------|---|
| Model | DESA 0081 |  |
| Uses | Distillation of water | |


| Instrument | Double beam spectrophotometer | |
|--------------|--|---|
| Model | 6850 |  |
| Uses | Quality control, general research, pharmaceutical, biochemical and clinical laboratory applications. | |


| Instrument | Spectro UV-VIS Double Beam PC Scanning Spectrophotometer | |
|--------------|---|---|
| Model | UVD-2950 |  |
| Uses | qualitative and quantitative analysis in such fields as pharmaceutical inspection, clinical analysis, petro-chemistry laboratories, chemistry and biochemistry laboratories | |




| Instrument | Ultrasonic Bath | |
|------------|---|---|
| Model | WUC-D06H |  |
| Uses | Ultrasonic cleaning—loosening particles adhering to surfaces, solvation of some materials and degassing of HPLC solutions | |


| Instrument | Ultrasonic Cleaner | |
|------------|---|---|
| Model | ST164 Benchtop |  |
| Uses | Ultrasonic cleaning—loosening particles adhering to surfaces, solvation of some materials and degassing of HPLC solutions | |


| Instrument | Centrifuge benchtop | |
|------------|--------------------------------------|---|
| Model | Sigma 2-16P |  |
| Uses | Centrifugation of deferent materials | |

| Instrument | analytical balance | |
|------------|----------------------------|---|
| Model | 220 V AC |  |
| Uses | Weighting of the materials | |



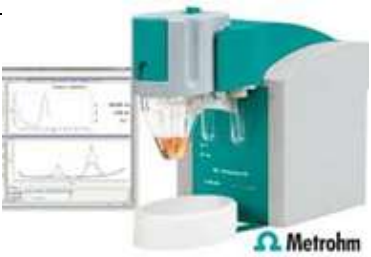
| Instrument | Colorimeter | |
|------------|--|---|
| Model | 6051 |  |
| Uses | Qualitative and quantitative determination of the most colored materials | |


| Instrument | Balance | |
|------------|------------------------------|---|
| Model | PGW 253i |  |
| Uses | Weighting of solid materials | |


| Instrument | Electronic Analytical Balance | |
|------------|-------------------------------|--|
| Model | WH Series |  |
| Uses | Weighting of solid materials | |


| Instrument | conductivity meter | |
|------------|-------------------------------|--|
| Model | SensoDirect Con 110 |  |
| Uses | Determination of conductivity | |




| Instrument | Voltammetry Analysis device (VA) | |
|------------|---|---|
| Model | 884 Professional |  |
| Uses | Analysis of heavy metals using voltammetry Determination of organic additives with CVS | |


| Instrument | Magnetic stirrer with hotplate | |
|------------|--|---|
| Model | MSH-A |  |
| Uses | Mixing of chemical, laboratory and pharmaceutical materials, heat-sensitive procedures in microbiology and biochemistry, sample drying | |


| Instrument | pH/mV/Temperature Meter | |
|------------|--|--|
| Model | JENWAY 3505 |  |
| Uses | Measurement of pH, voltage and temperature | |


| Instrument | Benchtop pH/mV/°C/°F Meter | |
|------------|--|--|
| Model | PH-27B |  |
| Uses | Measurement of pH, voltage and temperature | |



| Instrument | Vortex Mixer | |
|------------|---------------------------|---|
| Model | ZX4 |  |
| Uses | mixing laboratory samples | |

| Instrument | UV Lamp | |
|------------|---------|---|
| Model | VL-4.L |  |
| Uses | | |


| Instrument | Analytical Balances | |
|------------|------------------------------|--|
| Model | M214Ai |  |
| Uses | Weighting of solid materials | |


| Instrument | Single Tube Luminometer | |
|------------|--|--|
| Model | Lumi |  |
| Uses | Accurately quantify light emitted by chemiluminescence | |





Scientific Research Instruments in Department of Pharmaceutics



| | | | |
|---------------------------------|--|----------------|--|
| Name of Department | Pharmaceutics | Tel: | 25034 |
| Head of Department | Prof. Dr. Irhan Ibrahim Abu Hashim | Mobile | - |
| Location of Laboratory | Mansoura University, Faculty of Pharmacy, Building B (B301), 3 rd Floor, Pharmaceutics Department | E-mail: | rehamaman@yahoo.com rehamaman@mans.edu.eg |
| Research/Lab Coordinator | Dr. Reham Mokhtar Ahmed Aman | Mobile | 0100 50 70 447 |

| Instrument | Centrifuge | |
|--------------|--|--|
| Model | High speed centrifuge CE16x100RD ACCULAB USA |  |
| Uses | جهاز طرد مركزي لفصل التحضيرات النانوية | |


| Instrument | Centrifuge | |
|--------------|--|--|
| Model | Sigma centrifuge 2- 16P |  |
| Uses | جهاز طرد مركزي لفصل التحضيرات النانوية | |





| Instrument | Centrifuge | | Instrument | Centrifuge | |
|------------|--|---|------------|--|---|
| Model | Minor centrifuge |  | Model | Labofuge with stepples speed control |  |
| Uses | جهاز طرد مركزي لفصل التحضيرات النانوية | | Uses | جهاز طرد مركزي لفصل التحضيرات النانوية | |


| Instrument | Water bath and pump | | Instrument | Water bath and pump | |
|------------|--|--|------------|--|--|
| Model | Stuart RE400/MS with water bath and pump |  | Model | Laborota 4000 with water bath and pump |  |
| Uses | جهاز لتكوين thin film layer | | Uses | جهاز لتكوين thin film layer | |




| Instrument | Homogenizer | |
|------------|--|---|
| Model | Sonic vibro cell ultrasonic homogenizer |  |
| Uses | جهاز لتكوين nano-emulsion أو لتصغير حجم nanoparticles | |


| Instrument | Homogenizer | |
|------------|--|---|
| Model | Virtis model 6 |  |
| Uses | جهاز لتكوين nano-emulsion أو لتصغير حجم nanoparticles | |


| Instrument | Homogenizer | |
|------------|--------------------------------|---|
| Model | Benchmark D1000 |  |
| Uses | تقليب المستحضرات الصيدلانية | |


| Instrument | Magnetic stirrer | |
|------------|-------------------------|---|
| Model | Taisite HPS-20D |  |
| Uses | جهاز لتقليب المحاليل | |




| Instrument | Magnetic stirrer | |
|------------|-------------------------|---|
| Model | MTOPS MS300HS |  |
| Uses | جهاز لتقليب المحاليل | |

| Instrument | pH meter | |
|------------|--|---|
| Model | Consort (Belgium) P 901 |  |
| Uses | جهاز لقياس درجة الأس الهيدروجيني للمحاليل | |

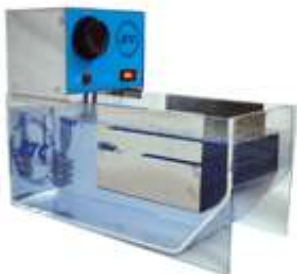
| Instrument | pH meter | |
|------------|---|---|
| Model | JENWAY 3540 Bench Combined pH and Conductivity Meter |  |
| Uses | جهاز لقياس درجة الأس الهيدروجيني للمحاليل | |


| Instrument | Dissolution Tester | |
|------------|---|---|
| Model | Scientific Tablet Dissolution Test Apparatus DA-6D |  |
| Uses | جهاز لقياس معدل خروج الدواء من الاقراص | |




| Instrument | Dissolution Tester | |
|------------|--|---|
| Model | ERWEKA Dissolution Tester |  |
| Uses | جهاز لقياس معدل خروج الدواء من الاقراص | |


| Instrument | Dissolution Tester | |
|------------|---|---|
| Model | ABBOTA XIX type Ditto DT No. 44922 |  |
| Uses | جهاز لقياس معدل خروج الدواء من الاقراص | |


| Instrument | Shaker | |
|------------|---------------------------|--|
| Model | NS Biotec WB 040D |  |
| Uses | جهاز حمام مائي مع رجاج | |


| Instrument | Shaker | |
|------------|---|--|
| Model | GFL Germany Shaking Incubator Type 3033 with orbital motion |  |
| Uses | حاضنة مع رجاج | |




| Instrument | Shaker | |
|------------|---|---|
| Model | Electromagnetic sieve shaker model RP 200N Cisa |  |
| Uses | جهاز لتقسيم جزيئات المواد الخام إلى جزيئات ذات أحجام مختلفة | |


| Instrument | Viscometer | |
|------------|--------------|---|
| Model | HAAKE RV3 |  |
| Uses | قياس اللزوجة | |

| Instrument | Spectrophotometer | |
|------------|-------------------------|--|
| Model | UV-2950 labomed Inc. |  |
| Uses | جهاز لقياس الطيف الضوئي | |

| Instrument | Spectrophotometer | |
|------------|-------------------------|--|
| Model | 6850 UV/Vis |  |
| Uses | جهاز لقياس الطيف الضوئي | |




| Instrument | Analytical Balance | |
|------------|---|---|
| Model | Bell Italy electronic precision balance M214 Ai |  |
| Uses | ميزان | |

| Instrument | Analytical Balance | |
|------------|------------------------|---|
| Model | DENVER instrument COLO |  |
| Uses | ميزان | |


| Instrument | Tablets Tester | |
|------------|--------------------------------|---|
| Model | Tablet Press EK 0/GP No. 11144 |  |
| Uses | كبس الأقراص | |

| Instrument | Tablets Tester | |
|------------|--|--|
| Model | Tablet Hardness Tester TB 24 No. 43370 |  |
| Uses | قياس صلابة الاقراص | |



| Instrument | Tablet Tester | |
|------------|--|---|
| Model | Tablet Disintegration Tester ZT3 No. 43541 |  |
| Uses | قياس تفتيت الأقراص | |


| Instrument | Tablets Tester | |
|------------|-------------------------------|---|
| Model | ERWEKA TA3R Friability Tester |  |
| Uses | جهاز لقياس درجة تفتيت الأقراص | |

| Instrument | Suppositories Tester | |
|------------|---|---|
| Model | Tester for melting point of suppositories type N. 44942 |  |
| Uses | جهاز لقياس درجة الانصهار للبوس | |

| Instrument | Oven | |
|------------|---|---|
| Model | Taisite Blast Drying Oven FCO-65D |  |
| Uses | دراسة درجة ثبات المستحضرات الصيدلانية في درجات الحرارة المختلفة | |




| Instrument | Oven | |
|------------|--|---|
| Model | LAB-LINE L-C Oven 3512-1 |  |
| Uses | دراسة درجة ثبات المستحضرات الصيدلانية في درجات الحرارة المختلفة | |

| Instrument | Oven | |
|------------|-------------------------------------|---|
| Model | Heraeus RVT360 Vacuum Oven |  |
| Uses | تجفيف المستحضرات الصيدلانية | |


| Instrument | Oven | |
|------------|---------------------------|---|
| Model | Heraeus B 5090 Oven |  |
| Uses | تجفيف الأدوات المعملية | |

| Instrument | Others | |
|------------|------------------------------|--|
| Model | Macro Micron Sing Mill |  |
| Uses | طحن المواد الخام | |




| Instrument | Others | |
|------------|--------------------------------------|---|
| Model | Tube vortex mixer. VM-300 |  |
| Uses | جهاز لعمل حركة دورانية داخل المحاليل | |

| Instrument | Others | |
|------------|--|---|
| Model | PO3EL Water Still DESA 0081 |  |
| Uses | جهاز تقطير المياه للحصول علي ماء نقي (ماء مقطر) لزوم عملي الأبحاث. | |

| Instrument | Others | |
|------------|--|---|
| Model | Sonix IV SS101H 230 Ultrasonic water bath |  |
| Uses | يساعد في ذوبانية المواد الخام باستخدام الموجات فوق الصوتية | |


| Instrument | Others | |
|------------|--|---|
| Model | Grant agitating water bath |  |
| Uses | يساعد في إجراء التجارب لدراسة ذوبانية المواد الخام في الأوساط المختلفة | |





| Instrument | Others | |
|------------|--------------------------|---|
| Model | Thermolyne HP47130-26 |  |
| Uses | سطح تسخين | |


Scientific Research Instruments in Drug analysis unit


| | | | |
|---------------------------------|-------------------------------------|----------------|-------|
| Name of unit | Drug analysis unit | Tel: | 25087 |
| Head of unit | Prof. Dr. Fatthalla Fatthalla Belal | Mobile | |
| Location of Laboratory | Administrative Building – 3 F | E-mail: | |
| Research/Lab Coordinator | Dr Nada Hammouda | Mobile | |


| Instrument | HPLC (High Performance Liquid Chromatography) | |
|------------|---|--|
| Model | Shimadzu (Quaternary Pump) |  |
| Uses | Quantitative Analysis and assay methods analysis of any drugs to confirm the identity of a drug and provide quantitative results. Also to monitor the progress of the therapy .of a disease | |


| Instrument | Capillary Electrophoresis | |
|------------|---|--|
| Model | 7100 Agilent Technologies, Co |  |
| Uses | High quality Quantitative Analysis and assay methods with fast and accurate instrument. | |


| Instrument | Freeze Dryer Cooling Temp. -80°C | |
|------------|---------------------------------------|---|
| Model | FD8-8T |  |
| Uses | For Lyophilization of aqueous samples | |


| Instrument | Ultrasonic Cleaner | |
|------------|---|---|
| Model | ABBOTA BHA series |  |
| Uses | High-frequency apparatus that use ultrasonic energy to agitate particles in liquids, to facilitate a wide variety of processes, such as mixing, cleaning, degassing, cell disruption, and sample preparation. | |


| Instrument | Centrifuge | |
|------------|---|---|
| Model | flying Taiwan Hematocrit Model: TDL-60B |  |
| Uses | Separation of fluids, gases, or liquids based on density for cell, organelle, virus, protein, and nucleic acid purification. | |

| Instrument | Analytical Balance Shimadzu | |
|------------|---|---|
| Model | L5/127-HM. -Model: AUY-220, Shimadzu unibloc system |  |
| Uses | Precision measuring instruments used in quantitative chemical analysis, for determination of the mass of solid objects, liquids, powders and granular substances. | |

| Instrument | pH Meter | |
|------------|---------------------------------------|--|
| Model | Germany BOEC Model: pH 25 portable |  |
| Uses | For more accurate pH measurements. | |

| Instrument | Heating magnetic stirrer | |
|------------|---|--|
| Model | velpitcly |  |
| Uses | Quickly spin, or stirring or mixing a solution. | |


| Instrument | Mixer | |
|------------|------------------------------------|---|
| Model | IKA Germany -Model: type RW 20N |  |
| Uses | Mechanical stirrer | |

| Instrument | Filtration Unit | |
|------------|---|---|
| Model | Model: Rocker 300 |  |
| Uses | Vacuum and pressure filtration is used for sample preparation | |




Scientific Research Instruments in Department of Pharmacognosy

| | | | |
|---------------------------------|---------------------------|----------------|-----------------------|
| Name of Department | Pharmacognosy | Tel: | 25023 |
| Head of Department | Prof. Dr. Mahmoud Elsebai | Mobile | 01557290900 |
| Location of Laboratory | Building A | E-mail: | Elsebai72@mans.edu.eg |
| Research/Lab Coordinator | Dr. Yhiya Amen | Mobile | 01552215961 |


| Instrument | Oven | |
|--------------|---------------------------|---|
| Model | ps.3A advanced technology |  |
| Uses | تجفيف أدوات | |


| Instrument | Digital balance bel | |
|--------------|-------------------------------|---|
| Model | m214ai |  |
| Uses | وزن المركبات والعينات الصغيرة | |


| Instrument | UV lamp 254+365 nm | |
|--------------|--|---|
| Model | vl-6.lc sn: 08101827 |  |
| Uses | اظهار بعض المركبات علي طبق الفصل الكروماتوجرافي الرقيق | |

| Instrument | Heating mantel | |
|--------------|---|---|
| Model | electromantle cn: em1000/c sn: 10611602madin uk |  |
| Uses | تسخين وتقطير المذيبات | |




| Instrument | Rotary evaporator + water bath + circulating water vacuum pump | |
|------------|--|---|
| Model | sn:2021010s80 0s2 |  |
| Uses | تبخير المذيبات تحت ضغط منخفض | |

| Instrument | Hot plate with magnetic stirrer | |
|------------|--|---|
| Model | lab companion hp -3000L |  |
| Uses | تسخين وإظهار بعض المركبات علي طبق الفصل الكروماتوجرافي بعد رشها بالمحلول المناسب | |

| Instrument | Vacuum oil pump wiggins | |
|------------|---|---|
| Model | 167410-11 |  |
| Uses | تقليل الضغط لتبخير المذيبات عند درجة حرارة منخفضة | |

| Instrument | Rotary evaporator Eyela | |
|------------|------------------------------------|---|
| Model | sn: 10801036 |  |
| Uses | تبخير المذيبات تحت ضغط منخفض | |



| Instrument | Rotary evaporator | |
|------------|---|---|
| Model | Buchi – r100 heating bath - b100 vacuum pump -v100 |  |
| Uses | تبخير المذيبات تحت ضغط منخفض | |

| Instrument | Ultra sonic cleaner taisite –USA cap: 3.2 | |
|------------|---|---|
| Model | s.n: 20124382 |  |
| Uses | لإذابة وتقليب المركبات للمساعدة في إذابتها | |


| Instrument | Autoclave Daihan scientific | |
|------------|-----------------------------|---|
| Model | MaXterile 47 |  |
| Uses | تعقيم الميديا والادوات | |


| Instrument | Digital balance | |
|------------|-------------------------------------|---|
| Model | sn : 06808 |  |
| Uses | وزن المركبات والعينات الصغيرة | |



| Instrument | Rotary evaporator heidolph + water bath | |
|------------|---|---|
| Model | sn: 020004/24 | |
| Uses | تبخير المذيبات تحت ضغط منخفض |  |


| Instrument | Vacuum pump oil rocker 410 | |
|------------|--|---|
| Model | 167410-11 | |
| Uses | تقليل الضغط لتبخير المذيبات عند درجة حرارة منخفضة |  |


| Instrument | Aspirator water pump Yamato wp-15 | |
|------------|------------------------------------|---|
| Model | WP15 | |
| Uses | تبخير المذيبات تحت ضغط منخفض |  |


| Instrument | Digital balance | |
|------------|----------------------------------|--|
| Model | fisher scientific xt- 7000 | |
| Uses | وزن المواد |  |




| Instrument | Water pump Daihan scientific | |
|------------|------------------------------------|---|
| Model | wev – 0035 |  |
| Uses | تبخير المذيبات تحت ضغط منخفض | |

| Instrument | Water bath Boekel | |
|------------|---|---|
| Model | 1494 |  |
| Uses | جهاز تسخين المياه والتحكم في درجة حرارتها | |

| Instrument | Hamilton | |
|------------|--------------|---|
| Model | WSC/4 |  |
| Uses | تقطير المياه | |


| Instrument | Freezer – 80 C climas | |
|------------|--|--|
| Model | made in spain |  |
| Uses | تجميد الانسجة عند درجة حرارة 80 سالب | |




| Instrument | Extraction app labline multi unit extraction heater | |
|------------|---|---|
| Model | Thermo Scientific 5000 |  |
| Uses | عمل المستخلصات بالتسخين | |


| Instrument | Heating mantle | |
|------------|-----------------------|---|
| Model | 23-5b |  |
| Uses | تسخين وتقطير المذيبات | |

| Instrument | Hating mental 1l | |
|------------|-----------------------|---|
| Model | 23-5b |  |
| Uses | تسخين وتقطير المذيبات | |


| Instrument | Rotavab wheaton10 | |
|------------|------------------------------|---|
| Model | 10-162 |  |
| Uses | تبخير المذيبات تحت ضغط منخفض | |



| Instrument | Electric balance | |
|------------|--------------------|---|
| Model | citizen fr – h 600 |  |
| Uses | وزن المواد | |


| Instrument | Shaker | |
|------------|-----------------------------------|---|
| Model | Cr-205 |  |
| Uses | جهاز يوضع عليه الفلاسكات لرجها | |

| Instrument | Shaker with incubator new brunswick scientific –USA | |
|------------|---|---|
| Model | 1282-0000 |  |
| Uses | جهاز يوضع عليه الفلاسكات لرجها ومزود بحضانة | |

| Instrument | Centrifuge sigma made in Germany | |
|------------|----------------------------------|---|
| Model | 2-16p |  |
| Uses | جهاز طرد مركزي لفصل المحاليل | |



| Instrument | Biotek elx800 elisa | |
|------------|--------------------------------|---|
| Model | elx800 | |
| Uses | قياس الالوان فى اطباق صغيرة |  |


| Instrument | Olympus microscope with camera cx31 | |
|------------|---|---|
| Model | cx31 | |
| Uses | ميكروسكوب لرؤية الاشياء الدقيقة بالكاميرا لتصويرها |  |

| Instrument | Vacuum oven heraeus | |
|------------|------------------------|---|
| Model | BO-9070A | |
| Uses | تجفيف تحت ضغط منخفض |  |

| Instrument | Vacuum pump oil | |
|------------|--|---|
| Model | 167410-11 | |
| Uses | تقليل الضغط لتبخير المذيبات عند درجة حرارة منخفضة |  |




| Instrument | Oven lab line l.c oven | |
|------------|------------------------|---|
| Model | 52bv-10 |  |
| Uses | تجفيف أدوات | |

| Instrument | Digital balance KERN | |
|------------|-------------------------------------|---|
| Model | citizen fr – h 600 |  |
| Uses | وزن المركبات والعينات الصغيرة | |

| Instrument | Rotary evaporator dragon + Daihan pump | |
|------------|--|---|
| Model | WEV-1005 |  |
| Uses | تبخير المذيبات تحت ضغط منخفض | |

| Instrument | Heating mantle 2L | |
|------------|--------------------------|---|
| Model | 13-311-421 |  |
| Uses | تسخين وتقطير المذيبات | |




| Instrument | Digital balance citizen | |
|------------|----------------------------------|---|
| Model | m214ai |  |
| Uses | وزن المركبات والعينات الصغيرة | |


| Instrument | ميكروسكوبات ضوئية وكهربائية للطلاب | |
|------------|------------------------------------|---|
| Model | متوفر الكثير |  |
| Uses | فحص الأنسجة النباتية | |

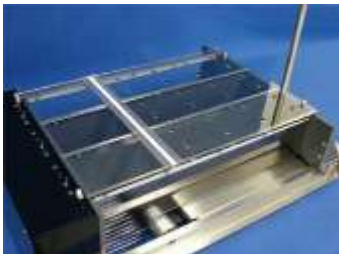



Scientific Research Instruments in Department of Pharmacology

| | | | |
|---------------------------------|----------------------------------|----------------|-----------------------|
| Name of Department | Pharmacology | Tel: | 25015 |
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| Instrument | Cooling Centrifuge | |
|--------------|---|---|
| Model | Sigma (3-30K) |  |
| Uses | Centrifugation of blood & tissue homogenate for ELISA, Western blot & PCR | |


| Instrument | Langendorff apparatus (Isolated heart model) | |
|--------------|--|---|
| Model | |  |
| Uses | Isolation of heart | |


| Instrument | Treadmill | |
|--------------|------------------|---|
| Model | Exner 3/6 |  |
| Uses | Behavioral tests | |


| Instrument | Suction System | |
|--------------|--------------------------------|---|
| Model | Biovac 240 |  |
| Uses | To keep isolated tissue a life | |




| Instrument | Slee Cryostat | |
|------------|---|---|
| Model | Histopathology Slides cutter |  |
| Uses | Preparation of histopathological slides | |


| Instrument | Microplate Reader | |
|------------|--------------------------------------|---|
| Model | MR-96 CLINDIAG |  |
| Uses | Measurement of protein concentration | |


| Instrument | Sleep one plus real time PCR system thermal cycling block | |
|------------|---|--|
| Model | Applied Biosystems |  |
| Uses | Measurement of Gene expression | |


| Instrument | Oven | |
|------------|---------------------------|--|
| Model | PS.3A Advanced technology |  |
| Uses | Drying of tissue | |



| Instrument | Orbital Shaker | |
|------------|---------------------|---|
| Model | | |
| Uses | Shaking for samples |  |


| Instrument | Paw pressure test | |
|------------|----------------------|---|
| Model | ALMEMO 2450 | |
| Uses | Mechanical pain test |  |


| Instrument | Hot plate | |
|------------|---------------------------|---|
| Model | Lab Companion HP-3000L | |
| Uses | Thermal pain test |  |


| Instrument | Homogenizer | |
|------------|---------------------------------|--|
| Model | DAIHAN Scientific HG-15D | |
| Uses | Automatic tissue homogenization |  |




| Instrument | Vortex | |
|------------|---------------------------|---|
| Model | خلاط دوامة صناعة مصرية |  |
| Uses | Sample shaking | |


| Instrument | Circulating Water Bath | |
|------------|------------------------|---|
| Model | Precision Model 260 |  |
| Uses | Sample heating | |


| Instrument | Cooling Centrifuge | |
|------------|--|--|
| Model | HERMLE Z206A |  |
| Uses | Centrifugation of blood & tissue homogenate for ELISA, Western blot & PCR | |


| Instrument | pH meter | |
|------------|---|--|
| Model | Consort p901 Electrochemi cal Analyzer |  |
| Uses | Adjusting pH | |




| Instrument | Centrifuge | |
|------------|---|---|
| Model | Model 800 |  |
| Uses | Centrifugation of blood & tissue homogenate | |


| Instrument | Electronic Scale | |
|------------|--------------------------|---|
| Model | BEL Engineering (M214Ai) |  |
| Uses | Weighting fine chemicals | |


| Instrument | Spectrophotometer | |
|------------|--|--|
| Model | UNICO Spectrophotometer 1200 |  |
| Uses | Colorimetric determination of biomarkers concentration in biological samples | |


| Instrument | Spectrophotometer UV-VIS | |
|------------|--|--|
| Model | UNICO Spectrophotometer UV-VIS Series 2100 |  |
| Uses | Colorimetric determination of biomarkers concentration in biological samples | |




| Instrument | Double Beam UV/VIS Spectrophotometer | |
|------------|--|---|
| Model | RG Instruments limited T80 Double Beam UV/VIS Spectrophotometer |  |
| Uses | Colorimetric determination of biomarkers concentration in biological samples | |


| Instrument | Physiograph | |
|------------|---|---|
| Model | AD instruments (ML11B) |  |
| Uses | Isolated tissue preparation and response to various drugs | |


| Instrument | Handheld homogenizer | |
|------------|---------------------------------|---|
| Model | SA 5000-30000 RPM |  |
| Uses | Automatic tissue homogenization | |


| Instrument | Handheld homogenizer | |
|------------|---------------------------------|---|
| Model | Acculab H160 |  |
| Uses | Automatic tissue homogenization | |




| Instrument | ECG | |
|------------|---------------------------------------|---|
| Model | FUKUDA M-E Cardisuny 501B- III |  |
| Uses | Electro- cardiogram measurement | |


| Instrument | Light Microscope | |
|------------|--|---|
| Model | |  |
| Uses | Carrying on Surgical operation under magnification of microscope | |


| Instrument | 2x3 advanced Vortex mixer | |
|------------|---------------------------|---|
| Model | VELP Scientifica |  |
| Uses | Sample shaking | |


| Instrument | 360 Degree Rotating Trinocular Stereo Microscope | |
|------------|--|--|
| Model | AM scope |  |
| Uses | Carrying on Surgical operation under magnification of microscope | |




| Instrument | ECG | |
|------------|---------------------------------------|---|
| Model | 3RAY ECG-2301 |  |
| Uses | Electro- cardiogram measurement | |


| Instrument | Centrifuge SMIC | |
|------------|---|---|
| Model | Shanghai 800 |  |
| Uses | Centrifugation of blood & tissue homogenate | |


| Instrument | Centrifuge MSE | |
|------------|--|--|
| Model | MINOR |  |
| Uses | Centrifugation of blood & tissue homogenate | |


| Instrument | Hot plate | |
|------------|----------------------|--|
| Model | Cimarec 3 |  |
| Uses | Thermal pain test | |




| Instrument | Centrifuge | |
|------------|---|---|
| Model | HERMLE 2206A |  |
| Uses | Centrifugation of blood & tissue homogenate | |


| Instrument | Spectro laboured | |
|------------|--|---|
| Model | uv D - 2950 |  |
| Uses | Colorimetric determination of biomarkers concentration in biological samples | |


| Instrument | Hot plate with stirrer | |
|------------|------------------------|--|
| Model | Cimarec |  |
| Uses | Thermal pain test | |


| Instrument | Radwag Scale | |
|------------|--------------------------|--|
| Model | AS 220.R2 |  |
| Uses | Weighting fine chemicals | |



| Instrument | Animal Scale | |
|------------|-------------------------------|---|
| Model | MRINO |  |
| Uses | Weighting experimental animal | |

| Instrument | Electronic scale | |
|------------|---------------------|---|
| Model | |  |
| Uses | Weighting chemicals | |

| Instrument | Paw pressure | |
|------------|----------------------|--|
| Model | ALMEMO (2450) |  |
| Uses | Mechanical pain test | |

| Instrument | Water bath | |
|------------|-----------------|--|
| Model | xMID -3000 |  |
| Uses | Heating samples | |