

RESEARCH OFFICE FACULTY of Dentistry



UNIVERSITI
TEKNOLOGI
MARA

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Faculty Of Dentistry
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#RESEARCH CUBE

RESEARCH LAB 1

EXTRACTION/HERBS
TISSUE CULTURE
MOLECULAR
ANIMAL RESEARCH
NEUROSCIENCE



RESEARCH OFFICE



RESEARCH LAB 2

SEMINAR AREA
(30 PAX)

LAB PHYSIC/MATERIAL
MICROSCOPE ROOM



CENTRAL
CHEMICAL STORE



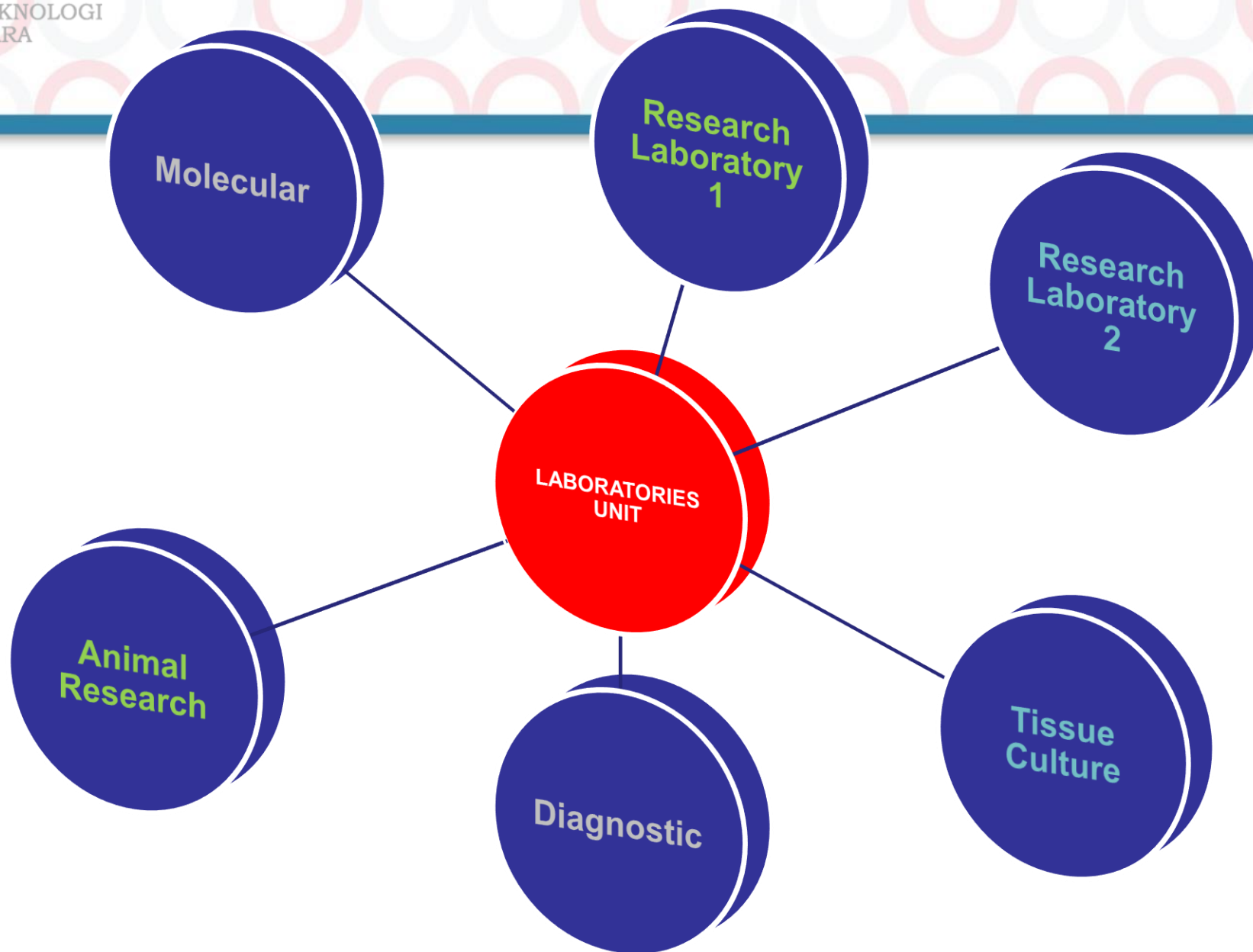
CENTRAL
APPARATUS STORE



COLD ROOM

AUTOClave ROOM

RESEARCH DISSCUSSION ROOM





LABORATORY EQUIPMENTS LIST

FACULTY OF DENTISTRY
UiTM
SG. BULOH CAMPUS

RESEARCH LABORATORY 1

- Rotary Evaporator
- Freeze Dryer
- DNA Concentrator
- High Performance Liquid Chromatography (HPLC)
- Motorized Research Cryostat

CONTACT PERSON :

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ROTARY EVAPORATOR

CHARGES



- Extraction (Natural Product)
- Liquid Sample

DNA CONCENTRATOR

CHARGES



- Extraction (Natural Product) → Solid / Liquid Sample

FREEZE DRYER

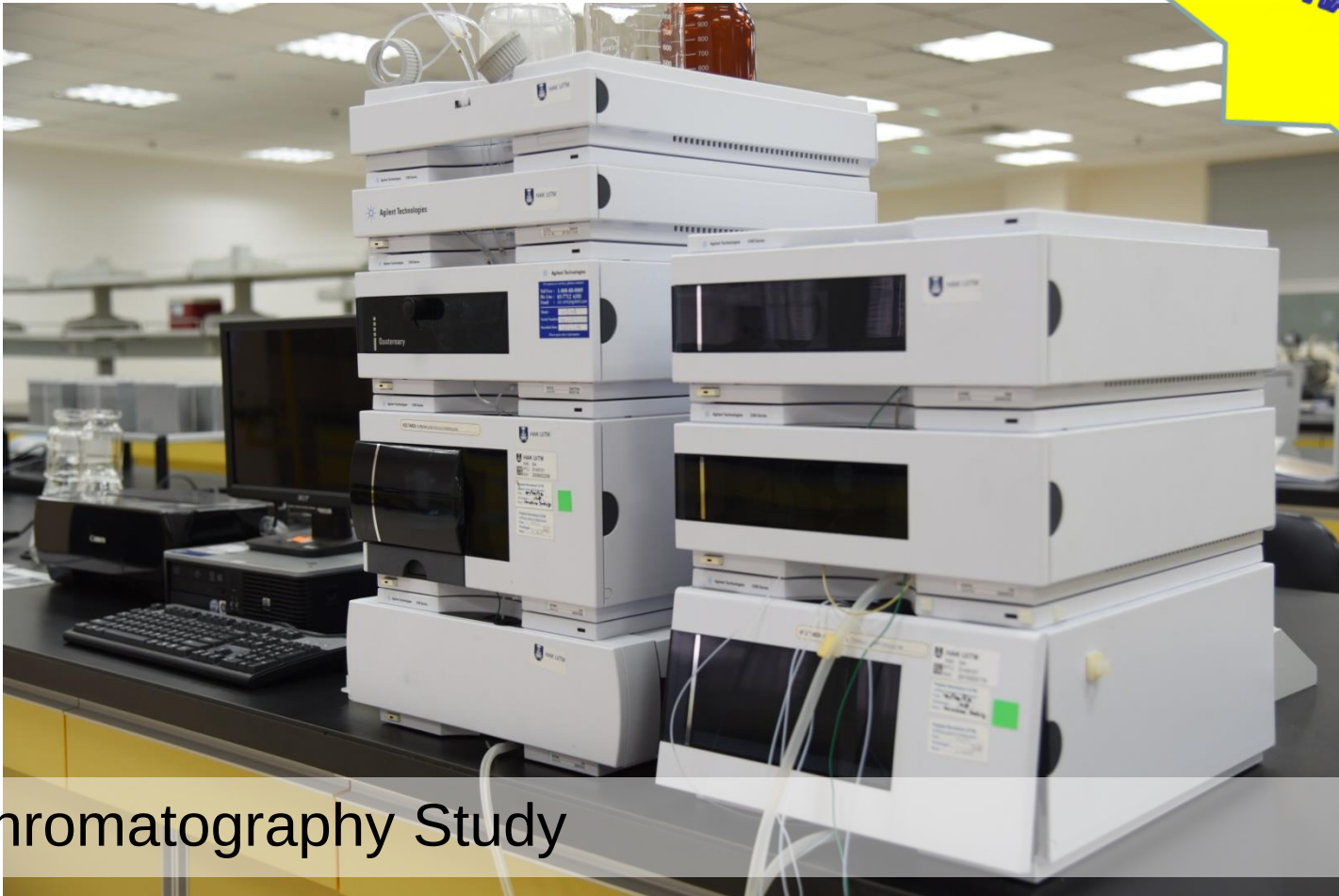
CHARGES



- Extraction (Natural Product) → Freeze Liquid Sample

HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)

CHARGES



- Chromatography Study



MOTORIZED RESEARCH CRYOSTAT

CHARGES



- CryoSection in Biomedical, Neuroanatomical & Pharmaceutical research
- Soft Tissue Sample

REFRIGERATED MICROCENTRIFUGE



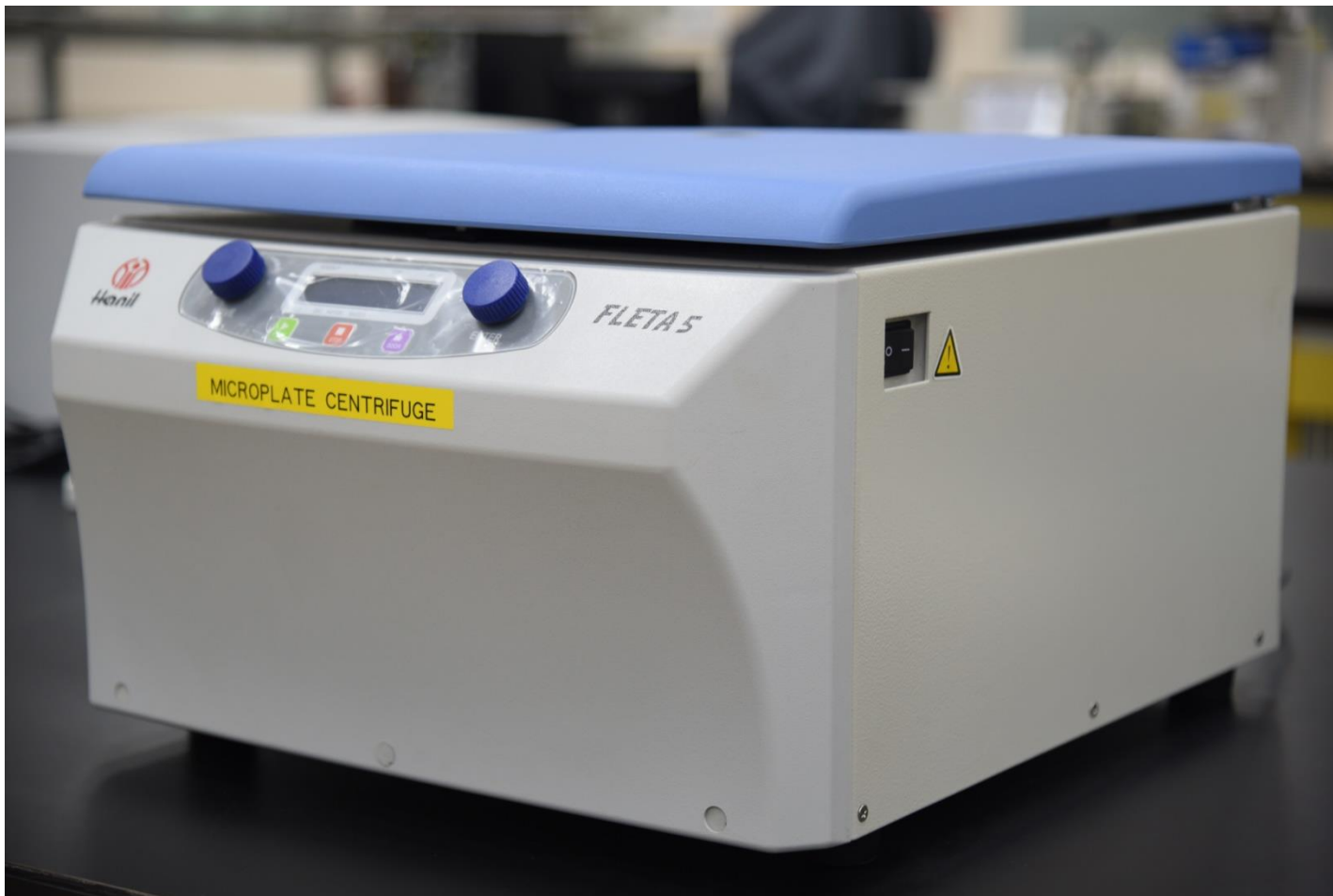
MULTIPURPOSE CENTRIFUGE



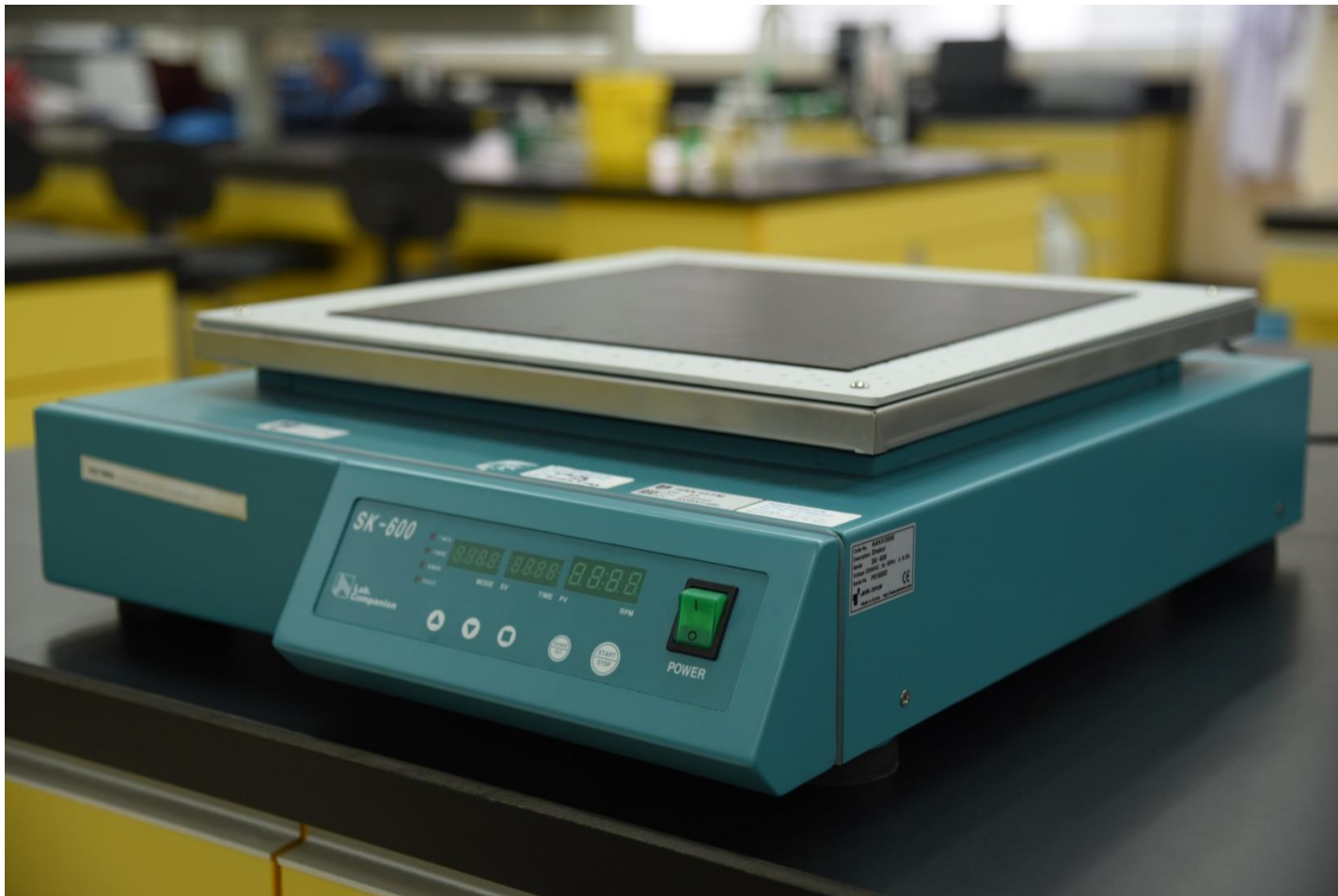
STEREOMICROSCOPE



MICROPLATE CENTRIFUGE



SHAKER



RESEARCH LABORATORY 2

- Surface Profilometer
- Universal Testing Machine
- Scanning Electron Microscope
- Spectrophotometer System / Colorimeter (Konica)
- Upright Fluorescence Microscope

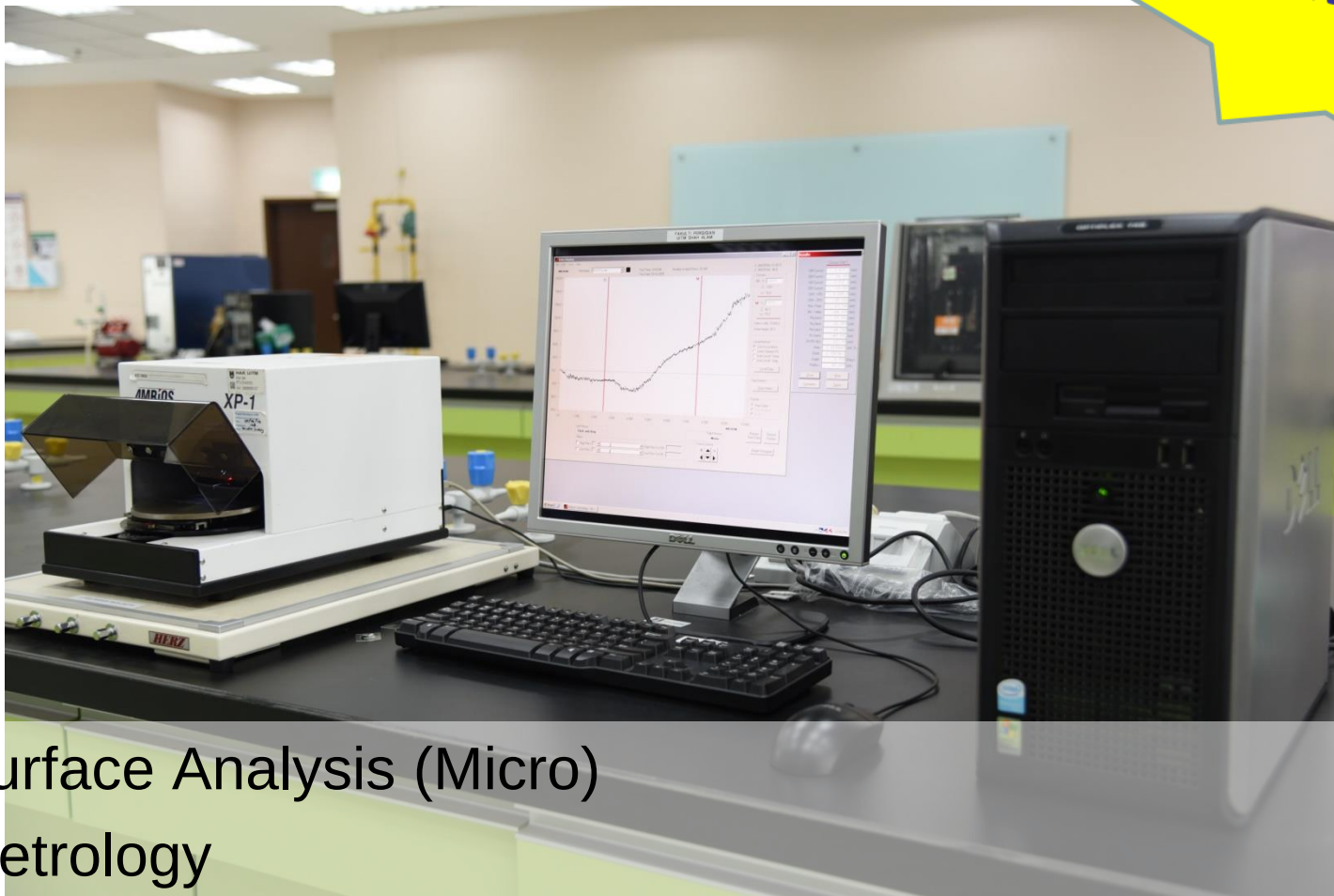
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SURFACE PROFILOMETER

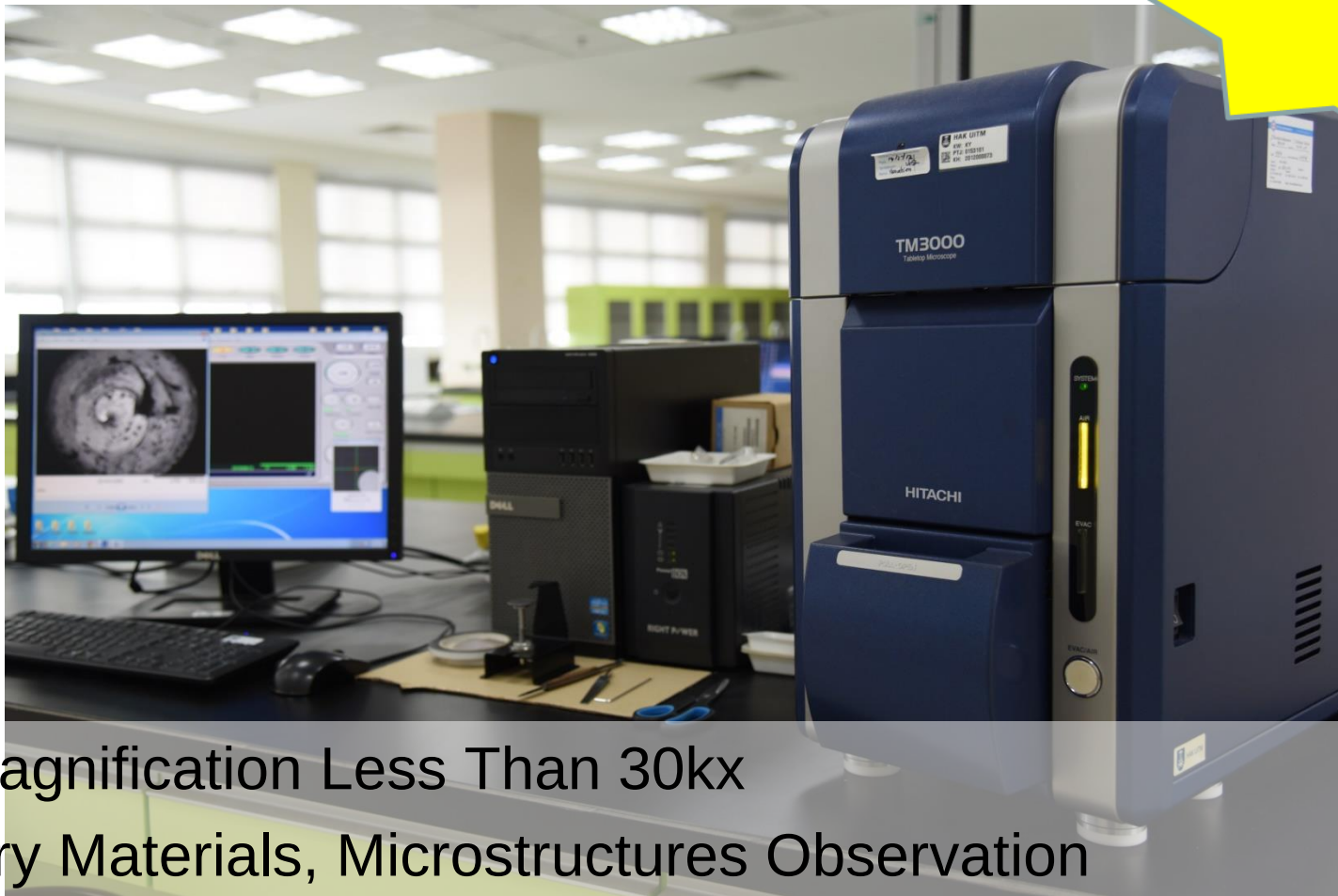
CHARGES



- Surface Analysis (Micro)
- Metrology

TABLE TOP SCANNING ELECTRON MICROSCOPE (SEM)

CHARGES



- Magnification Less Than 30kx
- Dry Materials, Microstructures Observation

UNIVERSAL TESTING MACHINE

CHARGES



- Tensile Test, Cyclic Tensile
- Compression Test, 3-Point Bend, Cyclic, Shear-Bond

SPECTROPHOTOMETER / COLORIMETER

CHARGES



- Spectroscopy / Absorbance
- Colour Measurement

UPRIGHT FLUORESCENCE MICROSCOPE

CHARGES



- Imaging
- Microscopy

TISSUE CULTURE

- Inverted Fluorescence Microscope
- Fluorescence Microplate Reader

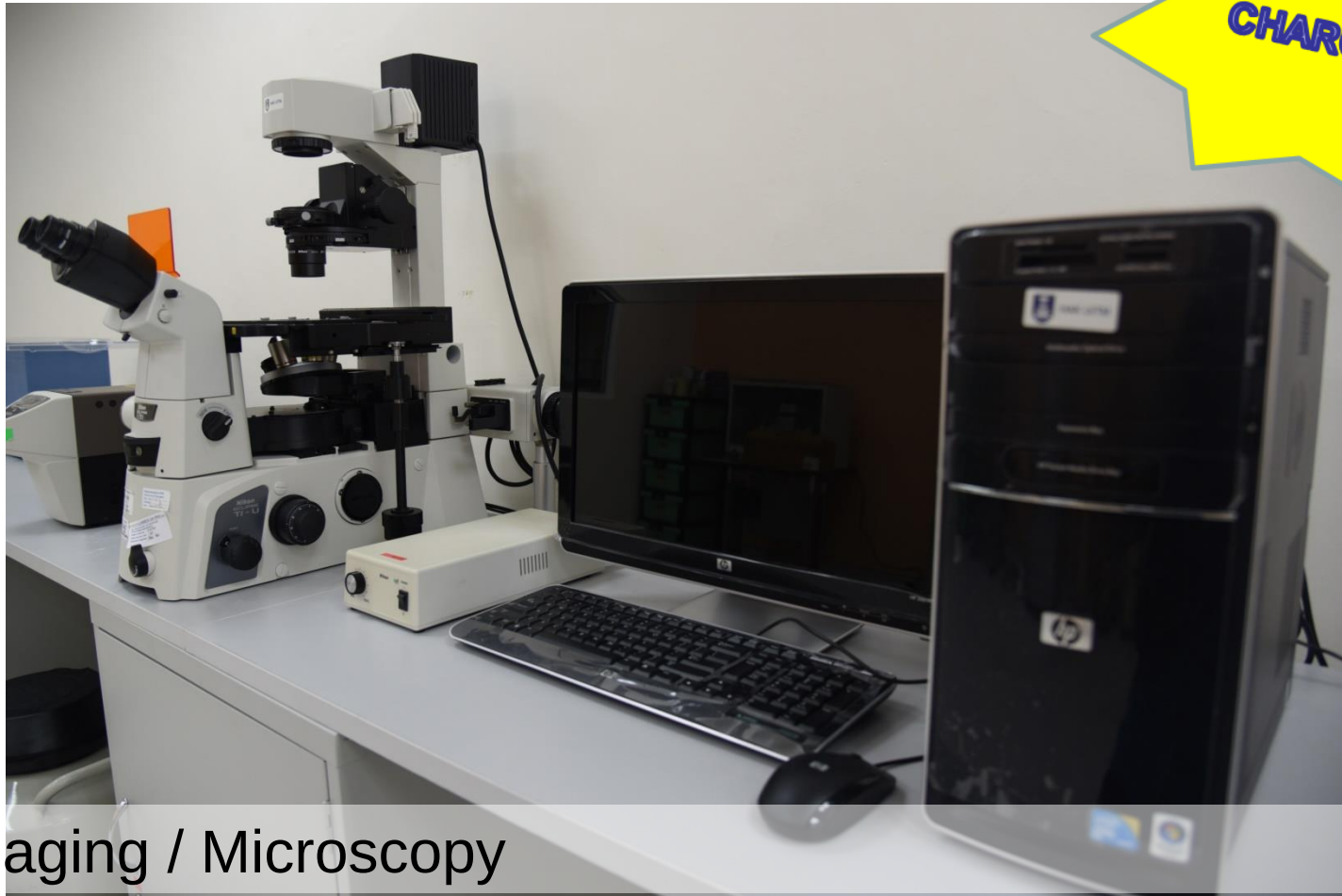
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INVERTED FLUORESCENCE MICROSCOPE

CHARGES



- Imaging / Microscopy

FLUORESCENCE MICROPLATE READER

CHARGES



- Fluorescence Spectroscopy
- Cell signaling assays

CO2 INCUBATOR



DIAGNOSTIC LABORATORY

- Forcipol 2V Double Wheel Grinder / Polisher
- Precision Diamond Wafering Saw

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PRECISION DIAMOND WAFERING SAW

CHARGES



- Oral Pathology
- Hard Tissue Preparation



FORCIPOL 2V DOUBLE WHEEL GRINDER / POLISHER

CHARGES



- Oral Pathology
- Hard Tissue Preparation

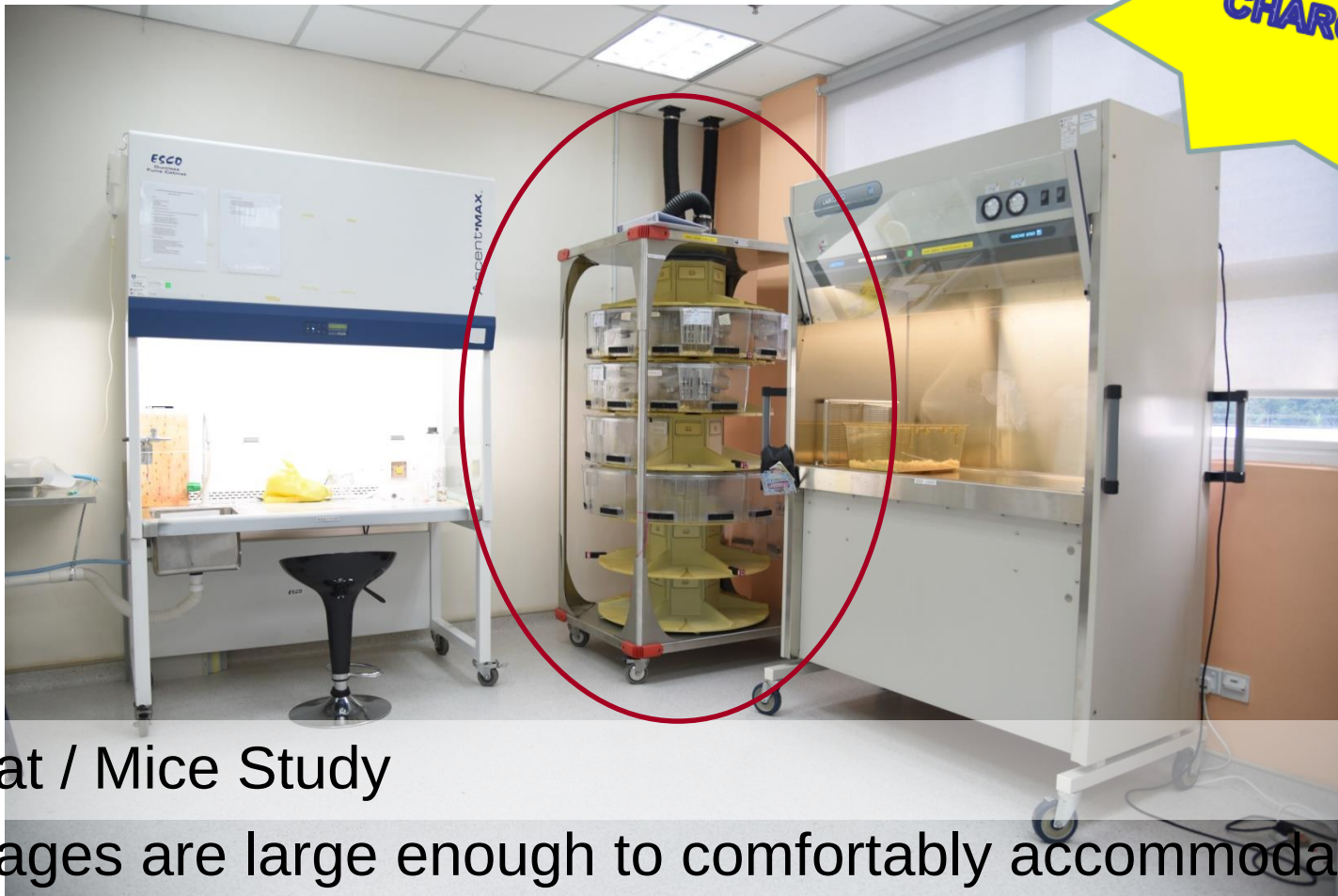
ANIMAL RESEARCH LAB

- Rat Cage Cabinet (OPTIRAT)
- Hot Plate Thermal Analgesia
- Tail Flick Analgesia Meter
- Plantar Test (Hargreaves Method)

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a_rail80@uitm.edu.my

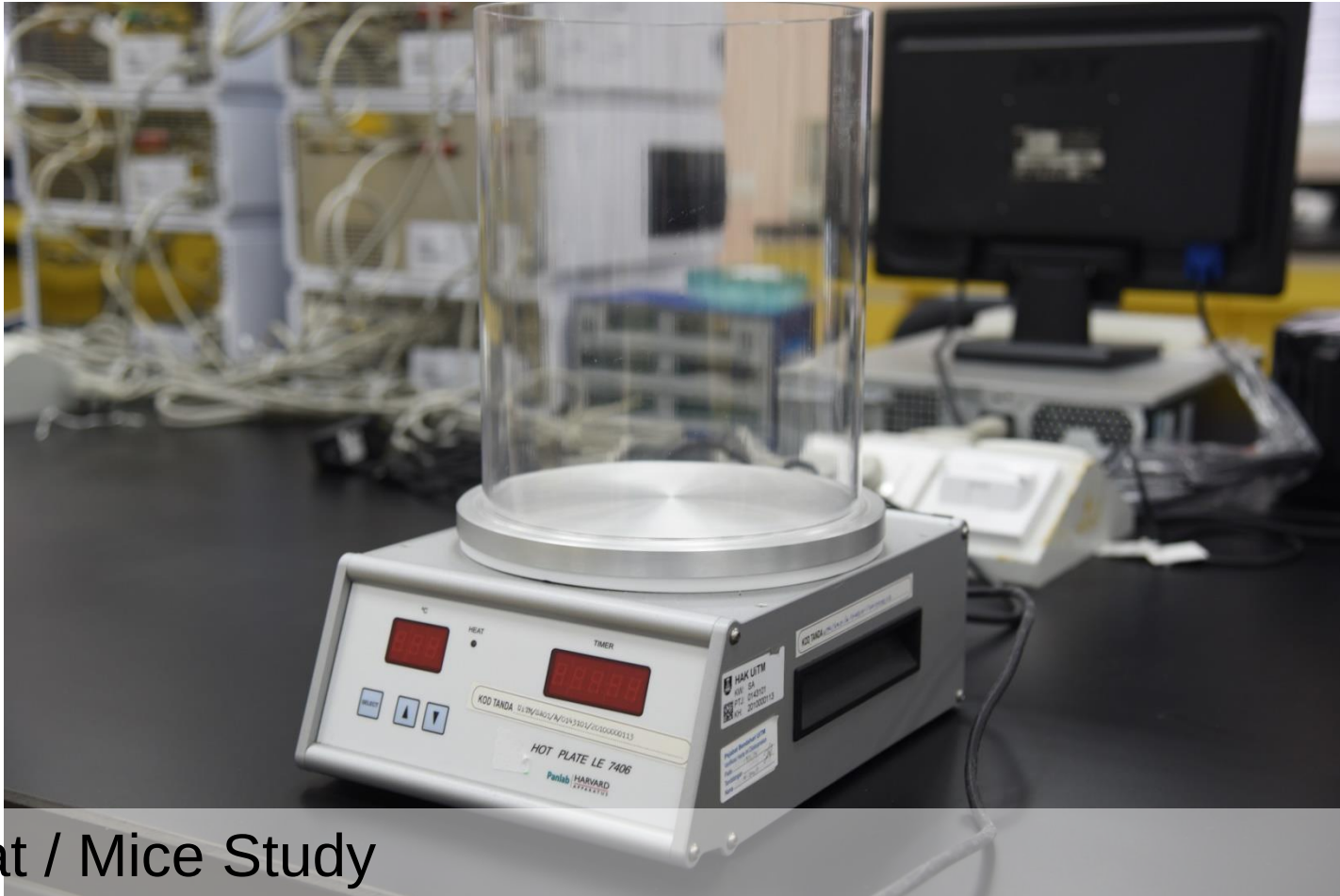
RAT CAGE CABINET (OPTIRAT)

CHARGES



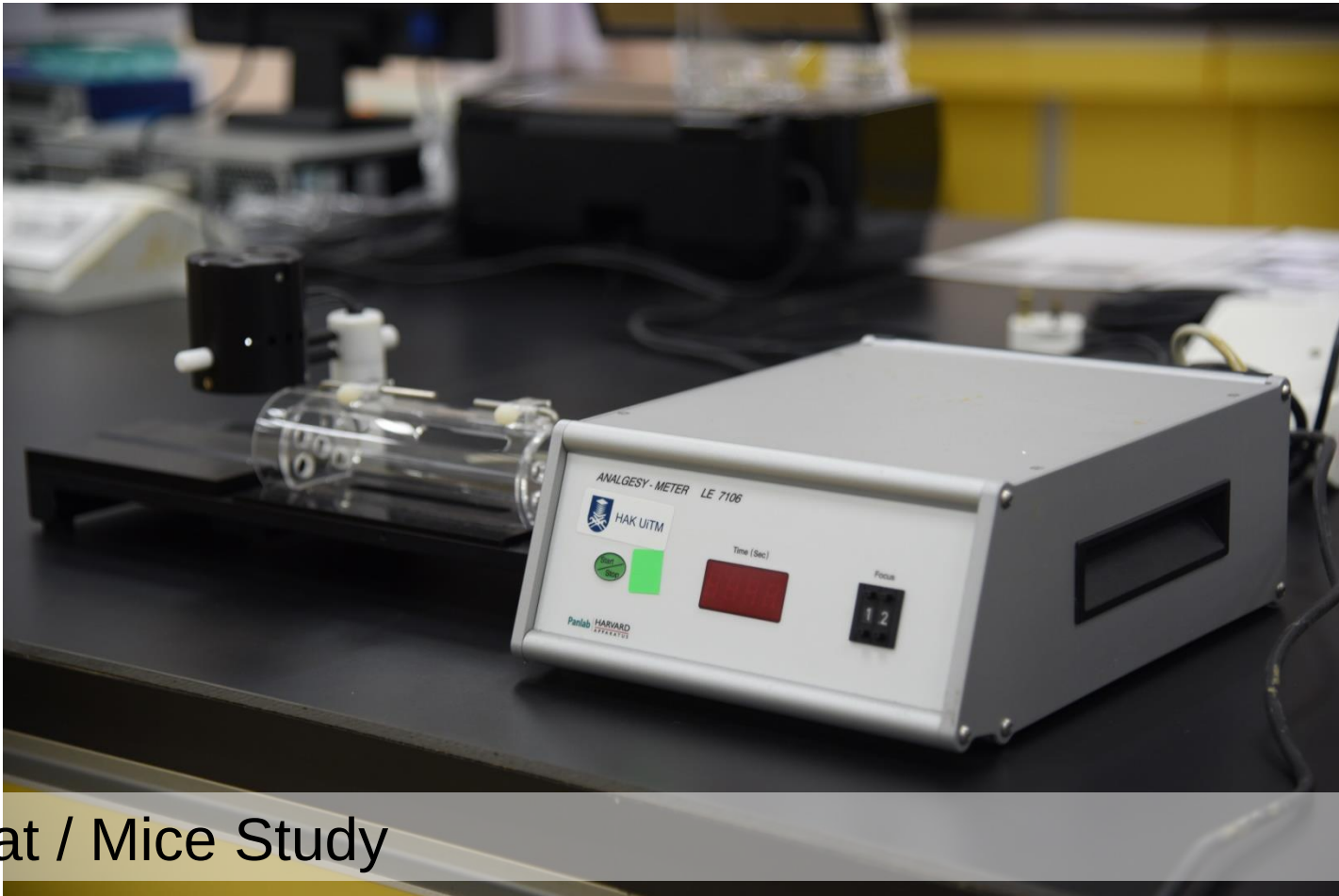
- Rat / Mice Study
- Cages are large enough to comfortably accommodate rats and other species and provides superior visibility

HOT PLATE THERMAL ANALGESIA



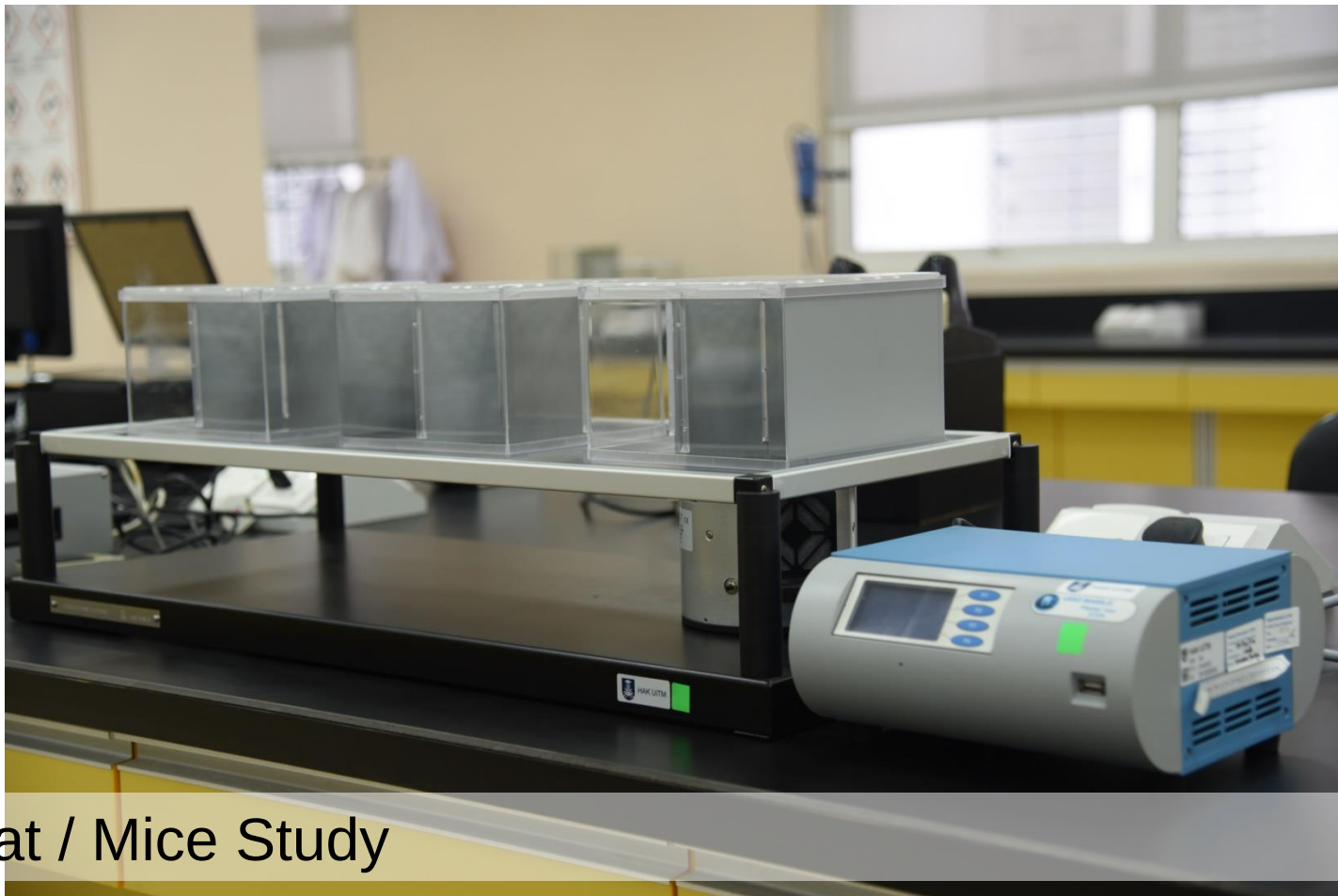
- Rat / Mice Study

TAIL FLICK ANALGESIA METER



- Rat / Mice Study

PLANTAR TEST (HARGREAVES METHOD)



- Rat / Mice Study

MOLECULAR LAB

- Amplispeed Low Volume PCR
- Nanophotometer UV/VIS
- Real Time PCR System
- Gel Image Analyzer
- Bioanalyzer System
- Universal Microplate Reader
- Universal Thermal Gradient Cyclers
- Speed Cycler

CONTACT PERSON :

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AMPLISPEED LOW VOLUME PCR

CHARGES



- Molecular Biology, DNA, Protein Detection
- Requires ONLY 1 μ L Sample

UNIVERSAL MICROPLATE READER



- Single channel filter-based absorbance, ELISA workhorse
- Wavelength range is from 400 nm to 750nm

NANOPHOTOMETER

CHARGES



- Spectroscopy Measurement

REAL TIME PCR

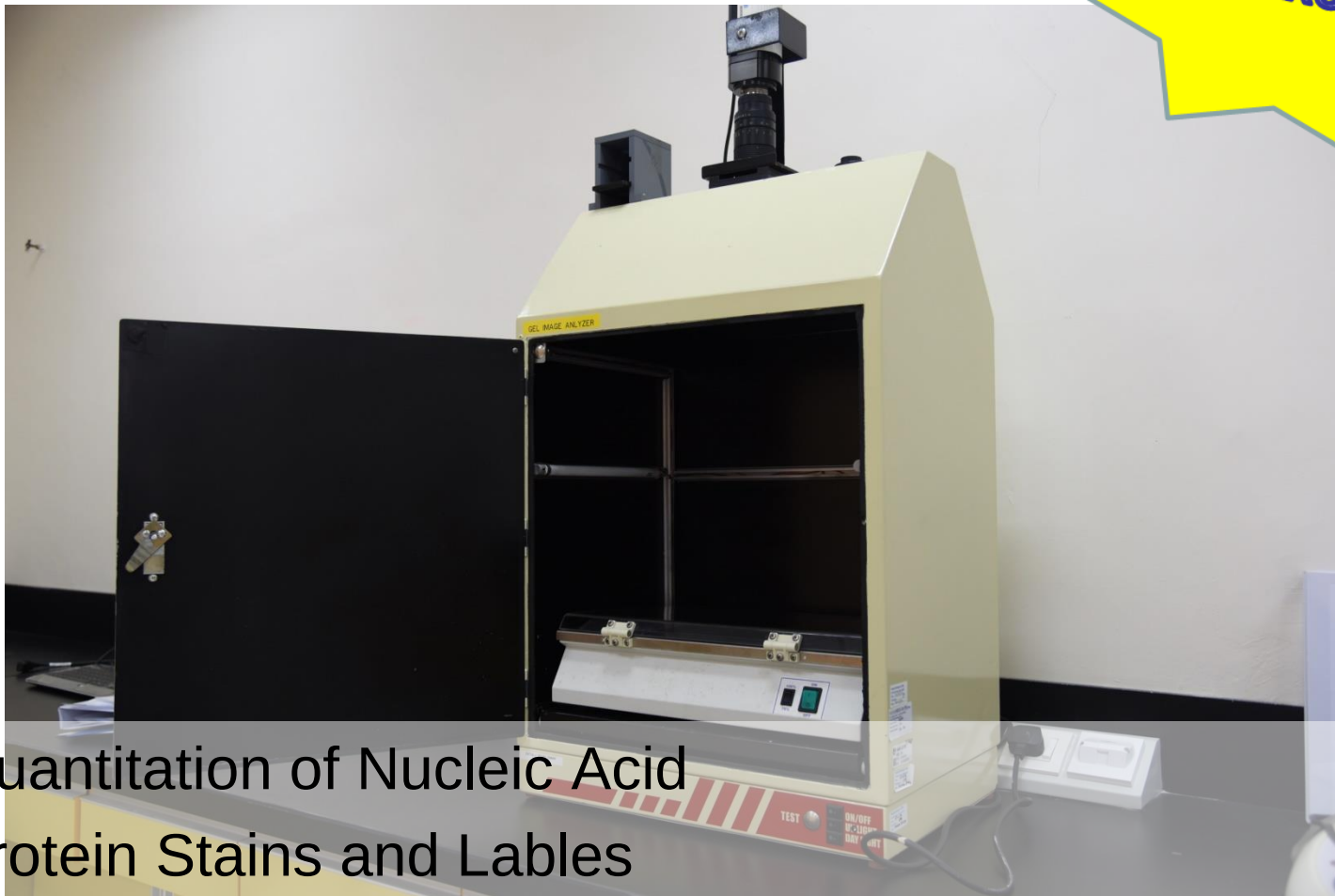
CHARGES



- Molecular Biology, DNA, Protein Detection

GEL IMAGE ANALYZER

CHARGES



- Quantitation of Nucleic Acid
- Protein Stains and Lables

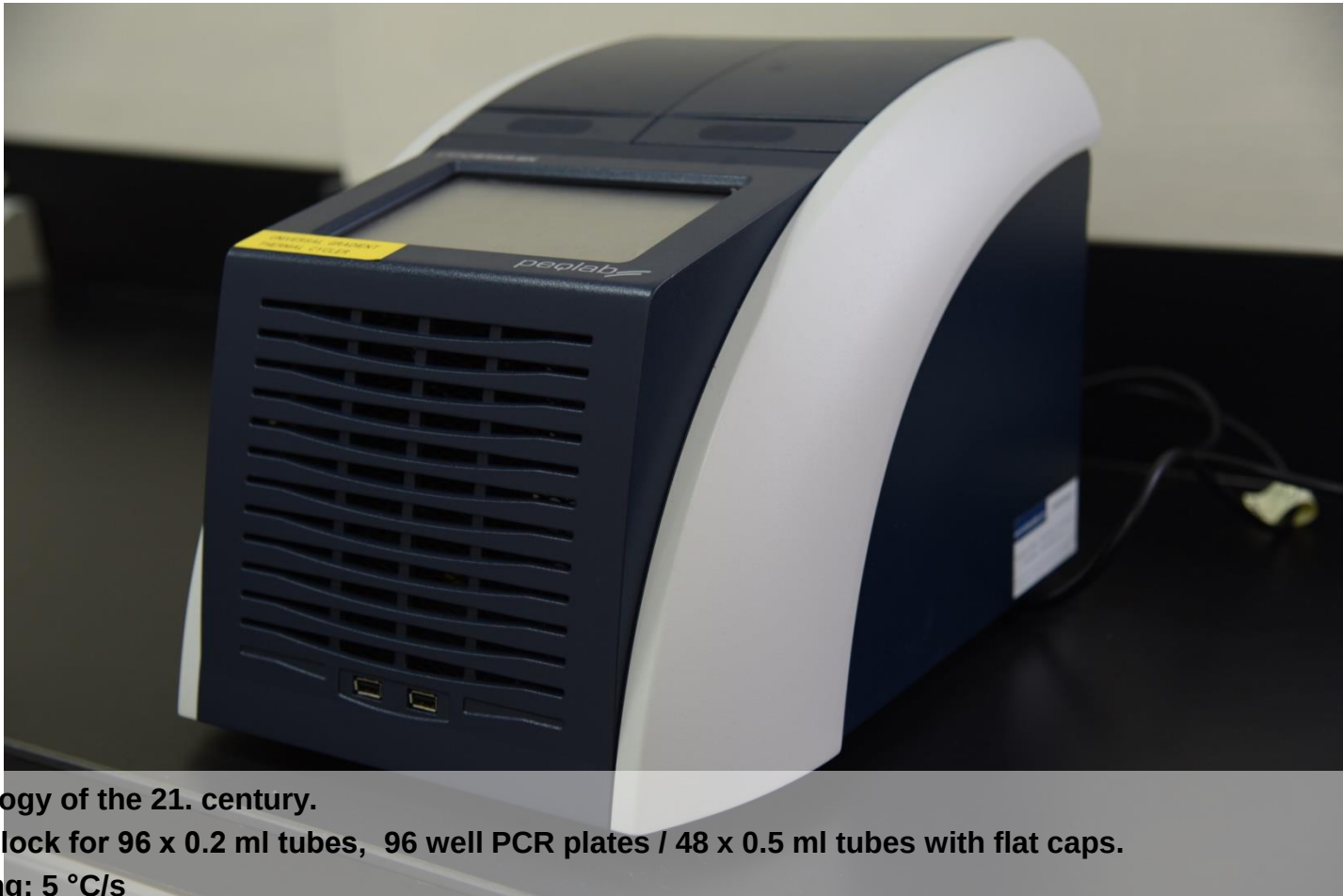
BIOANALYZER SYSTEM

CHARGES



- Molecular Biology, DNA, Protein Detection

UNIVERSAL GRADIENT THERMAL CYCLER



- PCR technology of the 21. century.
- • Universal block for 96 x 0.2 ml tubes, 96 well PCR plates / 48 x 0.5 ml tubes with flat caps.
- Max. Ramping: 5 °C/s
- Temperature range block: 4 °C - 105 °C

SPEED CYCLER



- Effective PCR amplification
- High heating and cooling rates (up to 15 °C/s or 10 °C/s,

MINI CENTRIFUGE



MICROPLATE WASHER



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