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Special Release

12 February, 2010

UNIVERSITY MULTIDISCIPLINARY CENTRAL RESEARCH LABORATORY

This is to inform the University community and the general public that the multi-million naira University of Ibadan Multidisciplinary Central Research Laboratory (MCRL) supported by the John D. and Catherine T. MacArthur Foundation and equipped with modern, state-of-the-art equipment for cutting-edge research in the biological, chemical, physical, agricultural, environmental and medical sciences has commenced operations. The MCRL was established by the University of Ibadan in response to the dearth of expensive, specialized, state-of-the-art equipment needed for research at the cutting edge and the problems of poor management and inadequate infrastructures and security that have constrained the growth and sustainability of research facilities in the past. The concept of centralization enables the pooling of scarce resources for efficient management and sustainable development through the provision, at one location, of adequate security, infrastructures, including water and electricity, and an environment conducive to the operation and use of expensive, highly sensitive equipment including good lighting and effective control of heat, humidity and dust.

Location



The MCRL is located in the Abadina area of the University, next to the University Conference Centre and directly opposite the National Archives of Nigeria, Zonal Office. The main laboratory is a storey building (two floors) with several wings. Attached to it is a Wet Laboratory for preliminary, preparative laboratory work.

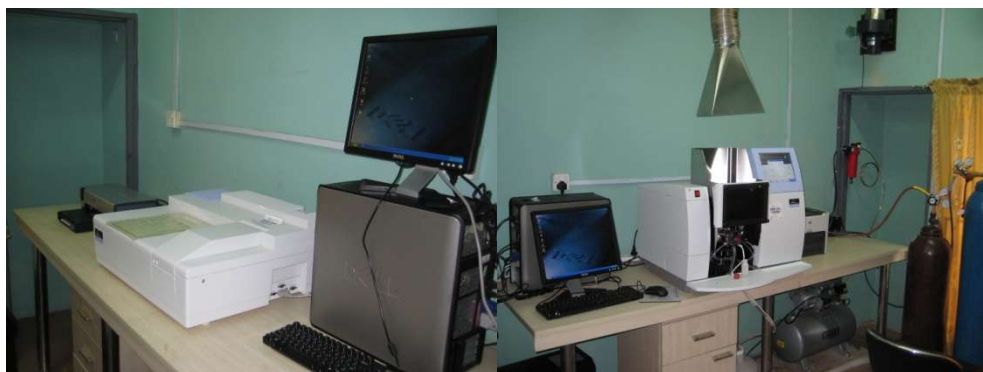
Facilities

Apart from routine equipment (pH meters, ovens, incubators, water baths, orbital shaker, rotary evaporator etc), the MCRL is equipped with the following major items of equipment:

- Gas Chromatograph (Perkin Elmer Clarus 500 with Flame-ion Detector)
- High Performance Liquid Chromatograph (Preparative, BUCK-BLC2OPG with C-18 ODS, Octyl, Amino, Cyano Propyl, Silica columns)
- High Performance Liquid Chromatograph (Analytical, Cecil-Adept System with UV-Visible detector; CE 4900 Powerstream software; RP8, RP18, Silica, Amino, Cyano columns of various sizes)
- Fourier Transform Infrared (FTIR) Spectrometer (Perkin Elmer Spectrum BX11)



- Atomic Absorption Spectrophotometer (Perkin Elmer Analyst 200 with Winlab 32 software assembly; lamps for Cd, Cr, Cu, Fe, Mg, Ni, Pb, Zn, Ag, Al, As, B, Ca, Co, Mn, Hg, Se, Si, Sn and V. Mercury/hydride system available.
- Flame Photometer (Jenway model PFP7)
- UV-Visible Spectrophotometer (Perkin Elmer Lambda25)
- Visible Spectrophotometer (Cecil model CE101)
- Visible Spectrophotometer (UNICO model 1200)
- Muffle Furnace (Carbolite model AAF 11/18, maximum temperature 1100° C).



- Vertical Lamina Flow Cabinet (Labcaire)
- High Speed Refrigerated Centrifuge (Hitachi CRG21GII with R22A4 angle rotor for 1.5/2ml x 30 samples; R21A angle rotor for 11ml x 16 samples; R20A angle rotor for 16ml x 32 samples; R20A2 angle rotor for 50 ml x 8 samples)
- Coulter Counter (Haematology analyzer)- Swelab Alfa
- Routine/Research Microscope with camera (Carl Zeiss-Axioskop 40)
- Routine microscopes (2 nos.)- CETI-Max Bino (4x10x40x100).

Other equipment already procured and to be installed include:

- Varian-240 Gas Chromatograph-Ion Trap Mass Spectrometer with auto injector
- Gas generators for nitrogen, hydrogen and air
- Leica Inverted Microscope with camera and application software
- Leica Transmitted Light and Fluorescence Microscope with camera and Leica image organizer software
- Leica Teaching Microscope with multiple viewing system
- Millipore Water Purification System.

Services

The MCRL is fully equipped to provide the following services:

- Chemical and microbiological analyses of food, beverages, feed, water, drugs and other materials
- Mineral analysis
- Analysis of environmental pollutants and contaminants including pesticide residues
- Chromatographic separation and identification of chemical components
- Various other analytical applications in pharmacy, medicine, agriculture, chemical and environmental toxicology, soil remediation, molecular biology etc.
- Consultancy, training and capacity building.



Contacts

For further information please visit the Multidisciplinary Central Research Laboratory or write to the email address: mcrlui@mail.ui.edu.ng or mcrlabui@mail.ui.edu.ng. You may also contact the Chief Technologist (Mr. J. O. A. Ogundeyi, Tel. 2348033152617 or 2348023286288) or any of the following members of the Administrative Committee and Chairpersons of User Sub-committees:

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