WORK OF THE DEPARTMENT

The Department of Basic Medical Sciences, one of the largest in the entire UWI continued its long-standing commitment to teaching undergraduate and postgraduate students in two Faculties: Medical Sciences, and Science and Technology. Registration in the Department’s programmes are detailed in the body of the report but the numbers can be summarized here as follows:

Faculty of Medical Sciences
- 720 MBBS/DDS;
- 367 BSc courses;
- 37 MSc. courses;

Faculty of Science and Technology
- 2,200 BSc. Courses.
The Department is strongly committed to considering the valuable advice of international professional colleagues on ways to improve our products: this places us in the international setting at a time when the entire University seeks to broaden its student client base to compete directly with overseas degree-awarding institutions for full fee-paying programmes.

Thus arguably the most important work performed by the Department of Basic Medical Sciences in the academic year 2015–16 was its participation in two quality assurance review programmes:

- that of the entire Department in November 2015, under the auspices of the Quality Assurance Unit of the UWI Office of the Board of Undergraduate Studies,
- as part of the CAAM-HP (“The Caribbean Accreditation Authority for Education in Medicine and other Health Professions”) accreditation review of the medical degree (MB.BS.) programme in April 2016.

Both reviews were the first being conducted by the respective bodies since the Department’s translocation to the comparatively more spacious facilities in the new FMS TRC (originally designed and approved by F&GP Cttee as the Basic Medical Sciences Complex), and this move addressed short-comings related to space highlighted in the previous reviews. However, the necessity to share the new building with other entities, and the reduction in infrastructural facilities as designed, instigated by Campus Management as a result of the financial difficulties in which the Campus is finding itself, has brought different challenges.

Challenges to the work of the Department mentioned by the Reviews include:

- The state of the Animal House (vivarium), which periodically compromises research as well as teaching programmes;
- Lack of research facilities at the Western Jamaica Campus site; impeding the promotion prospects of academic staff;
- Delays in the process for hiring academic staff from overseas;
- Lack of whiteboard/flip charts in tutorial rooms and laboratories impeding teaching;
• Lack of connectivity of the telecommunications monitors in teaching laboratories impeding teaching;
• Frequent breakdowns in the air-conditioning system compromising teaching and research equipment;
• Delays in the processing of orders for research and teaching materials from overseas, impeding research student throughput and morale;
• Breakdowns in the streaming process by which students at the Western Jamaica Campus receive instruction;
• Large numbers of students assigned to tutorial streams, and the comparatively small tutorial rooms in which to attempt to tutor them;
• Large numbers of students in the MB BS programme reducing the quality of students’ experiences and the time available for academic staff to devote to research

It is hoped that Campus Management will collaborate with the Department to address these challenges and others highlighted by the two reviews performed in this academic year.

Going forward the Department has prepared for the following:
– Increased registrations in several courses
– Anti-doping in sports (in collaboration with WADA)
– All majors in the Faculty of Science and Technology
– Master of Research
– MSc in Physical Therapy
– Implementation of the new self-financing programme which reached its final stage of development in this academic year: Professional doctorate programme in Pharmacy: PharmD.

The Department entered into agreement with the Mona School of Engineering for the routine maintenance and servicing of all its refrigeration compressors (in fridges and freezers). This is a pilot scheme which, if deemed successful, would be applied to the rest of the Mona Campus.
Following up on significant interest among undergraduate students, Dr. Paul Brown coordinated the launch of a Microbiology Society which will be facilitated by funding from the American Society for Microbiology.

The Department’s operations at the WJC site continued with streaming of lectures, tutorials and some practical exercises between Mona and WJC, and previously highlighted technical challenges affecting the quality and flow of information are being worked through to improve the Department.

STAFF AWARDS AND PROMOTIONS

• Dr. Sonja Williams was awarded Doctor of Physical Therapy (Hons.) from Nova Southeastern University, Davie Campus, Florida, USA. Mrs. Kimberly Garvey-Ramocan completed a Master of Science Degree in Forensic Science (Pathology) at UWI, Mona. Dr. Roopchand-Martin obtained an Advanced Certificate in Research Ethics from Clarkson University in collaboration with St. Georges University and the Autonomous University of Queretaro in Mexico. Dr Audrey Jacob received certification in Design and Interpretation of Clinical Trials from Johns Hopkins University (on line) and in Introduction to Food and Health from Stanford University.

• Dr. Roopchand-Martin was the recipient of a scholarship to pursue a Masters Degree in Biomedical Ethics with specialization in research ethics through the Caribbean Research Ethics Education Initiative which is funded by a NIH-Fogarty grant.

• Ms. Gail Nelson received the New Initiative Grant funding for the research project “The Effect of Exercise on Muscle Mass, Functional Capacity & Physical Activity In Community-Dwelling Elderly with Sarcopenia in Jamaica”, Research Fellowship Committee, Principal’s Office, UWI Mona.

• Miss Shakika Nugent attended a workshop on June 13 and 15 2016, which was organized by the Human Resource Management Division. This was a team Building and Collaborative Skills programme organized to increase skills in emotional intelligence, interpersonal and collaborative skills.
Mrs. Tracia-Gay Kennedy-Dixon was awarded an International Atomic Energy Agency (IAEA) fellowship of 12 months duration (February 01, 2016 to January 31, 2017) at the Royal Liverpool University Hospital in the United Kingdom. This training in Nuclear Pharmacy is a collaborative effort between the Planning Institute of Jamaica, the Ministry of Health, The University Hospital of the West Indies and The University of the West Indies and is coordinated under an IAEA grant which aims to re-establish Nuclear Medicine services in the public sector.

Dr Cameil Wilson-Clarke, Pharm D, joined the academic team of the department as Lecturer and Director of Clinical Pharmacy Practice. Mrs Tracia-Gay Kennedy-Dixon, BSc Pharmacy, joined the team as Assistant Lecturer, and Dr Jacqueline Campbell was appointed Part Time Lecturer, Family Medicine Programme. Drs. Icolyn Amarakoon and Simone Badal were appointed to the post of Lecturer effective August 1, 2015.

PAPERS PRESENTED AT SCIENTIFIC MEETINGS


- Badal, S. (2016). Faculty of Science and Sports, University of Technology: Solving problems, keeping the vibes forum Jamaica, March. A public lecture on: Cancer research in Jamaica: Where we are and where we need to be (Talk).


• Foster, S., Alexander-Lindo, R. L, Omoruyi, F, Bustamante J, Dilworth, L. Inositol Hexakisphosphate (IP6) and Inositol Combination Lowers Fluid and Food Intake in Type 2 Diabetes Mellitus Sprague-Dawley Rats. The University of the West Indies, Faculty of Medical Sciences, 24th Annual Research Conference & Workshop. Cancer, A Growing Public Health Priority in the Caribbean, Faculty of Medical Sciences Teaching & Research Complex, November 8 & 11–13, 2015.


• Daley, D; Yee, T, Reese, P and Lindo, R. L. 2016. The potential functional foods and nutraceutical products from hypoglycaemic compounds isolated from Eucalyptus camaldulensis. The Joint Meeting 16th Annual International Conference on the Science of Botanicals (ICSB) and the American Society of Pharmacognosy (ASP).


Presentation. Inaugural Caribbean Association of Forensic Sciences Conference [July 20–22, 2016]

- Ramocan, K. Speaker, Inaugural Conference of the Caribbean Association of Forensic Sciences, (CAFS) [July 20–22, 2016]

SPECIAL PRESENTATIONS AND INVITED LECTURES

Jacqueline Campbell

• Dr. Sophie Turfus administered training in Forensic Science techniques, scientific language and poster presentations at the University of Leicester to scientists learning English language. Hosted by School of Medicine in collaboration with English Language teaching Unit (ELTU), University of Leicester, U.K. held 5th July 2016

Dr Cameil Wilson-Clarke

• Antimicrobial Stewardship, “Pharmaceutical Society of Jamaica/Caribbean Association of Pharmacist Conference at Hyatt Zilara & Ziva, July 30, 2016”

• ”Understanding Systemic Lupus Erythematosus (SLE) and its complications Systemic, Pharmaceutical Society of Jamaica, Mandeville Hotel, April 24, 2016

• ”Understanding your Insulins, Children living with Diabetes”, Life for a Child Support Group, St. Luke’s Anglican Church, March 5, 2016.

• “The role of the pharmacist in managing patients living with Diabetes and Hypertension”. The Knutsford Court Hotel, Sponsored by Servier, February 21, 2016

• “Managing Acid reflux from Paediatrics to Geriatrics” PSJ Runaway Bay, Sponsored by Abbott. November 2015

• “Role of the Oncology Pharmacist”: National Health Fund, Carimed Limited, Sponsored by Roche, October 2015

POSTERS PRESENTED AT SCIENTIFIC MEETINGS


- Lindo, R. L, Reese, P. B., and Bartley, T. A. Investigating Salvia serotina (Chicken Weed) for its Hypoglycaemic and Hypotensive effects in Normal Sprague-Dawley Rats. Faculty of Medical Sciences Annual Research Conference (November 2015) FIRST PLACE PRIZE FOR BEST POSTER


ABSTRACTS


- Foster, S, Alexander-Lindo, R.L, Omoruyi, F, Bustamante, J and Dilworth, L. Inositol Hexakisphosphate (IP6) and Inositol Combination Lowers Fluid and Food Intake in Type 2 Diabetes Mellitus Sprague-


**CONFERENCES ATTENDED**

- Badal, Simone. UNC LINEBURGER CONFERENCE, Chapel Hill, North Carolina, April 10th–11th 2016 on “Molecularly targeted cancer therapies from bench to bedside.”


• Gordon, Carron. The Everything Therapy Continuing Education Seminar in June 2016 held in Kingston. Topic: Therapeutic Ultrasound.

• Martin, D., Nelson, G., and Mansingh, A. (2015). The effect of kinesio taping on pain and jump performance in club volleyball players with patellar tendinopathy in the Cayman Islands; presented at the UWI Faculty of Medical Sciences Annual Research Conference.


• Roopchand-Martin, Sharmella (2016). Served as faculty for the Caribbean Public Health Agency (CARPHA) for the launch of CANREC (Caribbean Network of Research Ethics Committees).

• Roopchand-Martin, Sharmella 2016 (January) – Served as faculty for the Caribbean Public Health Agency (CARPHA) for 3 day training workshop in ethics conducted in Trinidad.

• Roopchand-Martin, Sharmella 2015 (December) – Served as faculty for the Caribbean Public Health Agency (CARPHA) for 3 day training workshop in ethics conducted in Jamaica.

• Roopchand-Martin, Sharmella 2015 (October) – Trinidad and Tobago Anesthesiology Association (TTAA) in Collaboration with the Biomedical Ethics Society of the Caribbean (BSEC) annual conference. Asked to present a paper on ethical issues associated with conducting researching the ICU and also asked to facilitate two workshops on the role of ethics committees.

• Roopchand-Martin, Sharmella 2015 (October) – Served as faculty for the Caribbean Public Health Agency (CARPHA) for 4 day training workshop in ethics conducted in Antigua. Joint programme with UNESCO with trainees coming from the Eastern Caribbean.
• Lindo, Lisa. The University of the West Indies, Faculty of Medical Sciences, 24th Annual Research Conference & Workshop. Cancer, A Growing Public Health Priority in the Caribbean, Faculty of Medical Sciences Teaching & Research Complex, November 8 & 11–13, 2015.

• Ragoobirsingh, Dalip. The University of the West Indies Diabetes Outreach Programme 22nd International Conference on Diabetes and Cannabis, April, 28–30, 2016, Montego Bay, Jamaica.

• Ramocan, Kimberley. American Academy of Forensic Sciences Annual Scientific Meeting, AAFS Trainee Affiliate [February 2016]


BOOKS AND BOOK CHAPTERS


• Levy, A.S. Key genes in the progression of prostate cancer: In Prostate cancer-Advances in Diagnosis, treatment and care of patients.

• Francis, S, Nwokocha, C.R, Delgoda, R. Inhibition of cytochrome P450 1 enzymes by apocynin and other Jamaican natural products: Assessing potential for chemoprevention and drug-herb interactions. In-vitro Bioassays and Chromatographic Analyses used to screen natural Products from Jamaica in the 21st century, 2015; 49-61 Editor: Cheryl E. Green.

• Liwa, A.C., Barton, E.N, Cole, W.C. and Nwokocha, C.R. Chapter 15; Bioactive Plant Molecules, Sources and Mechanism of Action in the Treatment of Cardiovascular Disease. McCreath-1611338 978-0-12-802104-0 Elsevier Publications.
TECHNICAL REPORTS


ARTICLES IN PEER-REVIEWED JOURNALS


• Levy, A.S. Role of TMPRSS2-ERG Fusions in Prostate Cancer: Significance of Assessment in Jamaican Men. West Indian Medical


- Nesbeth, K. A. T., Samuels, L. A., Daley, C. N., Gossell-Williams,


**PATENT**


**INCOME GENERATION/FUNDING**

**Dr. Sonja Williams**

Generated $86,600.00 for the Section of Physical Therapy.

Source of income: Summer massage course entitled “Massage for Relaxation”.

Course developed and facilitated by Dr. Sonja Williams. Date of the course: June 6–29, 2016.
Research Grants

Dr. Paul Brown
Campus Research and Publication Fund (CRPF), UWI, Mona 2016–present
Role: PI (Awarded to Rochell Davis)
Investigation of the role of the stringent response in stress tolerance and antimicrobial resistance in Klebsiella pneumoniae and its contribution to in vivo pathogenesis US$2902

Dr. Sophie Turfus obtained funding from Dean’s office for shipment costs for donated items from King’s College London (equipment value: £4500 GBP) GBP £388

Prof. Dalip Ragoobirsingh
BDS $ 13890.92 – Post Graduate Research Award for Ms Allison Sugrim project, University of the West Indies Cave Hill Campus, entitled: Diabetes distress and its relationship to adherence to Medical regimens in Type 2 Diabetes Mellitus in a Caribbean population.

Dr. Maxine Gossell-Williams and Dr Cameil Wilson-Clarke received US $12,650.00 from Glaxo Smith Kline for the furnishing of the Drug Information and Pharmacovigilance Unit.

Campus Committee for Research and Publication and Graduate Award for Peta-Gaye Thomas (PhD candidate). Title: Pharmacological assessment of symptomology, sleep patterns and motor activity in Cannabis Using Schizophrenic patients’. US $1310.00.

Potluri Grant of JA$4,197,434.67 to the Pharmacology Teaching Laboratory for Instrumentation.

The laboratory was renamed the ‘Potluti Pharmacology Teaching Laboratory’ on February 9, 2016.

Dr. Nwokocha Chukwuemeka (Principal Investigator)
Investigation of the role of abnormal ion channel activity in cerebral...

“Cadmium and hypertension in Jamaica: any correlation? J$2.5M received from Research Fellowship Committee for a Multidisciplinary/Cross-Faculty Collaboration Grant. University of the West Indies, Mona. Dr. Nwokocha Chukwuemeka (Principal Investigator), Prof. Wilks, Rainford; Dr. Cunningham-Myrie, Colette; Dr. Younger-Coleman, Novie; Prof. Voutchkov,Mitko; Prof. Abdulkadri, Abdullahi; Dr. Rattray, Vaughn.

Dr. Michael Rowe received the Principal’s Initiative Grant (JA$1.5 M, 2016) to conduct investigation into “The Effect of Unilateral Stiff-Knee-Gait and Body Composition on Stride Mechanics and Net-Cost of Transport During Bipedal Walking.

Dr. L. Young-Martín (Principal Investigator) and Ms. M. McCleary (graduate student) received an additional grant of US$2700 (March 2016) from Graduate Studies to facilitate an MPhil research study entitled “GPR55 Involvement in the Anti-convulsant Effects of Cannabidiol.

Dr. Simone Badal

Application to Department Of Defence in collaboration with UNC, Chapel for funding in the amount of US$600,000 towards genomics testing on Caribbean PCa cell lines has passed the first round. This work would be an extension of the current research which is the development of novel Jamaican PCa cell lines for which S. Badal is the PI.

PUBLIC SERVICE

Dr. Icolyn Amarakoon
– Member, Working Group Hazardous Waste Management Project
– Mentor, Future Leaders of Jamaica
– Member, Society for Scientific Advancement (SoSA)
– Member, Fulbright Alumni Association
Dr. Paul Brown

– Poster judge, Wellcome Trust/DBT India Alliance, 17th International Congress on Infectious Diseases (ICID), Hyderabad, India. March 5, 2016.

– Session Chair, The Future of Infectious Diseases Diagnostics, 17th ICID, Hyderabad, India. March 4, 2016. Two-hr symposium included presentations on MALDI-TOF, Point of Care Testing for Global Health and Whole Genome Sequencing in Diagnostic Microbiology.


– President, WIGUT (Jamaica).


– Adjudicator, American International School of Kingston (AISK) Middle School Science Fair. March 2016

– Country Ambassador to Jamaica, American Society for Microbiology (ASM).

– Member, Research Subcommittee, International Society of Infectious Diseases. Terms: Oversight of ISID’s research grants & awards and fellowship programs.

– Chair, American Society for Microbiology (ASM) Leadership Circle. Terms: Oversight of ASM’s strategic direction in terms of communication between members and Ambassadors, international grants and fellowships, and Ambassador orientation. Appointed September 2014. Term of office ended June 2016.

– External Examiner, Microbiology programme at University of Technology.

Dr. Jacqueline Campbell

– Volunteer physician, Women’s Health Network
– Member of Management Committee of the Caribbean Poison Information Network (CARPIN)

Dr. Kerith Golden
– Vice President, Stock Farm Road Citizens Association, Golden Spring, St Andrew
– Member of the Board (Vice President), Jamaica Association for Children with Learning Disabilities.

Dr. Carron Gordon
– Member: Jamaica Physiotherapy Association

Ms. Gillian Hudson
– Member, Jamaica Physiotherapy Association
– Consie Walters Cancer Care Center Executive Member; Friends of Sir John Golding Rehabilitation Center

Dr. Rachael Irving
– Committee Member, National Sports Museum chaired by Honourable Portia Simpson-Miller, Prime Minister of Jamaica

Dr. Audrey Jacob
– Participated in the Read across Jamaica Day events at Immaculate Conception Preparatory School

Dr. Lisa Lindo
– Member, Fulbright Alumni Association
– Chair, American Friends of Jamaica (AFJ) / Sue Cobb Lecture Series
– Member, Society for Scientific Advancement (SoSA)
– Interview on Patent: On Campus with Dr. Carroll Edwards University Section, Regional
– Headquarters, Mona April 28, 2016 aired Sunday, May 1, 2016 at 2:00 p.m. on Newstalk 93 FM and 4:00 p.m. on RJR 94 FM

**Dr. Jean-Pierre Louboutin**
– Member of Editorial Boards of 27 journals
– Reviewer of 60 peer-reviewed journals
– Reviewer of grants for Scientific Council of Romania (Young Investigators Awards in 2015)

**Professor Wayne McLaughlin**
– Board Member, Coconut Industry Board
– Board Member, Seprod Limited

**Ms. Gail Nelson**
– Member, Jamaica Physiotherapy Association
– Member of the Philharmonic Orchestra of Jamaica – Violist; Board of Management
– Member, UWI Classical and Jazz Ensemble (2015–to present)
– Accredited Local Preacher, Methodist Church in the Caribbean and the Americas

**Dr. C. R. Nwokocha**
– Member, Organizing Committee of the FMSARC

**Dr. Andrew G. M. Pearson**
– Chairman, International Standards Organisation Technical Committee 93 (Starch & its derivatives).
– Visited the University of Nairobi to establish academic links between the two universities.

**Professor Dalip Ragoobirsingh**
– Consultant Diabetes Educator, Diabetes Association of Jamaica (DAJ)
– Consultant Diabetes Educator, University Hospital of the West Indies (UHWI)

– Panel member on Technical Advisory Committee, The Chronic Diseases and Injuries Unit, Ministry of Health, Jamaica (MOH), updating the National Guidelines for the management of diabetes.

– Member, Pan American Health Organization Special Technical Committee to revise and update the nutrient requirements and recommended dietary allowances (RDAs) for the populations in the English speaking Caribbean.

– Member, World Health Organization Guideline Development Group

**Mrs. Kimberley Ramocan**

– National Television Interview, at Mock Crime Scene Excavating Human Remains, Mercyhurst

– University, Erie, Pennsylvania (June 9, 2016)

**Dr. Sharmella Roopchand-Martin**

– Chair for CARPHA’s Research Ethics Committee, December 2015

– Secretary for Bioethics Society for the English Speaking Caribbean – appointed January 2016

**Dr. Sophie Turfus**

– Judge at the American International School of Kingston Science Fair held 17th March 2016.

– Member, International Association of Forensic Toxicologists

– Member, London Toxicology Group

– Public Relations Officer, Caribbean Association of Forensic Sciences

**Dr. Sonja Williams**

– Member, Jamaica Physiotherapy Association

**Dr. Cameil Wilson-Clarke**

– Mentor, Future Leaders of Jamaica Foundation
– Member, Future Leaders of Jamaica Mentorship and Outreach Committee.

– Coordinator of the Pharmaceutical Society of Jamaica ASTRA RUN (5k Walk/Run)

– Organised Community Health Fairs (Free Clinics) for Ridge Community Annual Health Fair, St. Peters Anglican Health Fair, Pharmaceutical Society of Jamaica Annual Week Health Fair

Dr. Lauriann Young-Martin

– Lector and Member of the Liturgical Committee of Holy Cross Roman Catholic Church

– Member, Fund-raising Committee of Holy Cross Church

– Member, Women in World Neuroscience (WWN)

– Invited guest on News Talk 93 hosted by Prof. Carolyn Cooper to discuss the role of the UWI Medicinal Cannabis Research group

UNDERGRADUATE STUDENTS REGISTRATION

BB Med Sci.

Year 1 = 62
Year 2 = 55
Year 3 = 73

BSc -Physical Therapy

Year 1 = 55
Year 2 = 57
Year 3 = 65

36 graduated in October 2015
MSc- Physical Therapy

1 student was enrolled for the year 2015–2016 and should graduate in October 2016

1 graduated in October 2015

MBBS/ DDS

Year 1 = 354
Year 2 = 366

FST (Registrations in BMS courses)

Year 1 = 1501
Year 2 = 289
Year 3 = 410

POST GRADUATE STUDENTS REGISTRATION

Taught Masters

MSc Forensic Science = 21
MSc Applied Pharmacology = 7
MSc Biomedical Research = 7
MSc Physical Therapy = 1

Research

MPhil = 34
PhD = 15

POSTGRADUATE DEGREES AWARDED

MPhil

Ms. Channtal Golding – Pharmacology
Ms. Monique Reboe – Pharmacology
Ms. Joan Facey – Physiology
Ms. Nicolia Nelson – Biochemistry

PHD
Sharon Harrison – Biochemistry

MSc Applied Pharmacology
Nicola Rose

M.Sc. Forensic Science
Davalene Neale
Najair Pennicooke
Jay-Vis McIntosh
Donovan Thomas
Shanielle Gordon
Carol Stephens
Shikera Fearon
Nikolai Nunes
Colleen Campbell
Marika Vernon
Stephen Longmore

POSTGRADUATE AWARDS

• **Mr. Andrew Condappa** won Dean’s award for best student presentation for his research project completed as part of the Bachelor of Basic Medical Sciences Pharmacology Programme.

  Title: The efficacy of premarin versus ketoconazole prostate specific antigen responses in castrate-resistant prostate cancer.

• **Ms. Peta-Gaye Thomas** won the Professor Manley West Award for research project in Pharmacology.
• Title: Cannabis potentiates transient elevation of aspartate aminotransferase in schizophrenia patients prescribed risperidone.

VISITORS TO THE DEPARTMENT

The External Examiner for the Final Professional Examination for Physical Therapy held in July 2016 was Dr. Melrose Stewart-Fraser from University of Birmingham, London, UK

William Cole, PhD
• Professor in the Department of Physiology & Pharmacology, Libin Cardiovascular Institute and Hotchkiss Brain Institute, Cumming School of Medicine, University of Calgary, Canada, visited during the month of February 2016. He assisted with undergraduate BB Med Sc teaching and delivered a seminar to graduate students in the BMS department.

Joseph Whittaker, PhD
• Professor, Department of Biology, Morgan State University, Associate Director, NASA GESTER programme, Former Dean, School of Computer, Mathematical and Natural Sciences, Baltimore, USA, visited in June 2016 and attended a meeting (chaired by Dr. L. Young-Martin) to introduce Prof. Whittaker to the cannabis research group and to establish collaborative linkages in neuroscience research.