

DEPARTMENT OF BASIC MEDICAL SCIENCES



Professor Wayne McLaughlin, BSc *Waterloo*, PhD *UWI*
Head of Department

WORK OF THE DEPARTMENT

During the academic year, the department made progress in implementing some of the strategic initiatives in its 2007–2012 strategic plans and began to develop its 2012–2017 strategic plans.

The major achievements included:

- The review of the BB Med Sci programme
- Increased student intake in the Basic Medical Sciences and Physical Therapy programmes.
- The strengthening of academic supervision and overall programme quality in research training at the MPhil and PhD levels, including weekly departmental graduate seminars.
- Increased publication output.

- Increased throughput of MPhil and PhD students.
- Establishment of Caribbean Toxicology Laboratory (CARITOX).
- The recruitment of new academic staff.

In January 2013, the Department relocated to the new Faculty of Medical Sciences Teaching and Research Complex. The complex is a 300,000 ft state-of-the-art facility with research and teaching laboratories, lecture theatres, seminar rooms, tutorial rooms and meeting rooms.

There were three resignations during the year. Dr. Michelle Hamilton, Lecturer in the Biochemistry Section resigned from the University of the West Indies to fully take up a post at the Ministry of Health. Dr. Jacqueline Corness, Senior Lecturer in the Physiology section and Dr. Rustam Aminov, Senior Lecturer in the Biochemistry section also resigned.

STAFF AWARDS AND PROMOTIONS

Dr. Paul Brown received the Principal's Research Award for Best Research Publication (article), Faculty of Medical Sciences for 2012, UWI, Mona [A Comparative Analysis of the Attachment of *Leptospira interrogans* and *L. borgpetersenii* to Mammalian Cells]. Dr. Sharmella Roopchand-Martin received the UWI/Guardian Life Premium Teaching Award for 2011/2012. This was presented at the ceremony in October 2012. Miss Talitha Farquharson was promoted to the post of Administrative Secretary. Ms. Lady Fay Clarke, Chief Laboratory Attendant in the Anatomy Section received a Special Long Service Award in 2012.

STAFF DEVELOPMENT

Mrs. Angella Turner-Dawkins attended the Essentials of Occupational Health and Safety course from May 2–17, 2013. This programme covered areas such as:

- Hazard recognition, evaluation and control

- Occupational safety and health legislation
- Conducting workplace inspections
- Accident Investigation
- Introduction to Occupational safety and health management systems

Dr. Marsha-Lyn McKoy received training in experimental techniques in Pharmacology at Michigan State. Mr. Everton Thomas received Occupational Health and Safety training organised by the Human Resource Safety Unit. Dr. Rachael Irving received The University of the West Indies Press Authors Award for the Bestselling General Interest Book (2007–2012), *Jamaican Gold: Jamaican Sprinters*, January 2013. Dr. Rachael Irving was also awarded the World Justice Forum IV Scholarship to the Hague Netherlands.

PAPERS/POSTERS PRESENTED AT SCIENTIFIC MEETINGS

- Lindo, J. F., Brown, P.D., Vickers, I. E., Brown, M. G., Jackson, S. T. and Fuller, E. L. “Coinfections of dengue, leptospirosis and malaria in Jamaica”. 57th Annual Caribbean Health Research Council (CHRC)/Caribbean Public Health Agency (CARPHA) Scientific Conference, Cayman Islands, April 19–21, 2012.
- Stephenson, S., Brown, P. D. “*qnr* prevalence and associated class I integrons among *qnr*-positive fluoroquinolone-resistant *Escherichia coli* in Jamaica”. 15th International Congress on Infectious Diseases, Bangkok, Thailand. June 13–16, 2012. (Abstract)
- Brown, P. D. “Rat attack: Leptospirosis and other zoonosis”. Medical Association of Jamaica Annual Symposium; Kingston, June 8, 2012.
- Bryan, Sophia, J., R., Alexander-Lindo, Lisa, Dasgupta, Tara and McGrowder, Donovan. “The Effects of Vitamin C, Cysteine and Glutathione Administration with S-Nitrosoglutathione on Glycaemic Control in Sprague-Dawley Rats Diabetes and Oral Health”. 17th Annual International Diabetes Conference, Jamaica Grande Resort, Ocho Rios, St. Ann, Jamaica. March 21–24, 2013.

- Gordon, C. D., Roopchand-Martin, S. and Hunter, R. “Motives for Exercise Participation in Urban Communities in Jamaica”. American Physical Therapy Association Annual Conference June 6–9, 2012.
- Young, L. E. “A Nutritional Supplement Regime Diminished Addictive Behavior and Mean Arterial Pressure Without Affecting Serum Catecholamines”. Poster presented at the 43rd Annual Meeting of the Society for Neuroscience, New Orleans, October 2012.
- Hall, M, Gordon, C., “Knowledge of the benefits of exercise and exercise participation in persons living with diabetes in Kingston and St. Andrew, Jamaica”. FMS Annual Research Conference, November 2012.
- Gordon, C. “Role of the physical therapist in primary health care”. School of Physical Therapy Annual Research Symposium, July 2013.
- Nelson, G. “Gender Differences in Cardiac Rehabilitation”. UWI Department of Medicine Annual Cardiac Week Symposium, February 2013.
- Irving, R. “The third Continuing Education Seminar for Pharmacists”. Wyndham Hotel, Jamaica. Science Based Medicine. October 28, 2012.
- Ragoobirsingh, D. “The Chronic Care Model – The Caribbean Perspective”. Ministry of Health Meeting of Senior Medical Officers and Regional Directors of Health, September 7, 2012, 2–4 King Street, Kingston, Jamaica.
- Ragoobirsingh, D. “Diabetes and Folklore – The Jamaican Experience”, Diabetes UK Headquarters, June 19, 2013, Camden, London, United Kingdom.
- Ragoobirsingh, D. “Diabetes and Caribbean Folklore” – The Trinidad and Tobago High Commission, June 20, 2013, London, United Kingdom.
- Ragoobirsingh, D. “Colourful Radio Interview”, June 19, 2013, Vauxhall, London, United Kingdom. <http://www.colourfulradio.com/presenter/jacquigant/>

- P.D. Brown. “Challenges to accessing international research funding”. NIH Grant Writing Workshop, Advancements in Medicine and Healthcare Conference, UWI, Mona, Jamaica, April 25, 2013.
- P.D. Brown. “Climate, climate change and infectious diseases”. 8th Fulbright Academy Summit on Global Health, Montego Bay, Jamaica. May 24–26, 2013.
- Murugan, Rajeswari, Jornadal, Jackie, Quinonez, Yanira, Jaffe, Mark, Dhadayuthapani, Sivanesan, Levy, Arkene and Rathinavelu, Appu. “Cytotoxic Effects of Pumpkin Seed Extracts on LNCaP Prostate Cancer Cell Line”. Annual Biomedical Research Conference for Minority Students (ABRCMS), November 7–10, San Jose, California.
- Jornadal, Jackie, Murugan, Rajeswari, Quinonez, Yanira, Jaffe, Mark, Dhadayuthapani, Sivanesan, Levy, Arkene and Rathinavelu, Appu. “Investigation of the Cytotoxic Potential of *Urtica dioica* Extract on the LNCaP Prostate Cancer Cell Line”. Annual Biomedical Research Conference for Minority Students (ABRCMS), November 7–10, San Jose, California.

PATENT APPLICATION

- Pub.no. US2010/0143509 A1 June 10, 2010. Stennett, Dewayne and Asemota, Helen. Therapeutic compositions from Jamaican Bitter yam and methods of making and using same.
- Daley-Beckford, Denise, Alexander-Lindo, Ruby, Lisa, Yee, Trevor and Reese, Paul. New potential oral hypoglycaemic agents from the leaves and stems of *Eucalyptus camaldulensis* Denhn. (Myrtaceae), and their identification as well known and consumed fatty acids with the likelihood for their safe use, and their favourable comparison with the known oral hypoglycaemic agent Metformin. (submitted September 30, 2012).

BOOKS AND MONOGRAPHS

- Louboutin, J. P. and Gardner, M. T. “Decision-making in adolescents: neuroanatomical basis and consequences for cognitive competence and risk-taking behaviors”. In P. Braschi (Ed.): *Psychology of Judgment*. Nova Science Publishers, Hauppauge, NY, 2013. Softcover and ebook.
- Louboutin, J. P. and Strayer, D. S. “New Therapies for HIV-1-Associated Neurocognitive Disorder (HAND): Animal Models and Gene Delivery of Antioxidant Enzymes” by rSV40 (in press, in ebook series: *Frontiers in CNS Drug Discovery*, Vol. 2; Bentham Science Publisher).
- Louboutin, J. P., Koch, W. J. and Strayer, D. S. “Ethanol stimulates angiogenesis via vascular endothelial growth factor and protects from ischemia and reperfusion injury”. In M. L. Parker (Ed.): *Vascular Endothelial Growth Factor (VEGF): Biology, Regulation and Clinical Significance*. Nova Science Publishers, Hauppauge, NY, 2013. Hardcover and ebook.
- Louboutin, J. P. and Strayer, D. S. “HIV-1-associated neurocognitive disorder: role of oxidative stress and protection by gene delivery of antioxidant enzymes”. In A. Ruiz and D. Fleming (Eds): *Encephalitis, Encephalomyelitis, Encephalopathies: Symptoms, causes and potential complications*. Nova Science Publishers, Hauppauge, NY, 2013. Hardcover and ebook.
- Louboutin, J. P. and Strayer, D. S. “Abnormalities of the blood-brain barrier in animal models of HIV-1 neurocognitive disorder”. In P. A. Montenegro and S. M. Juarez (Eds.): *The Blood-Brain Barrier: New research*. Nova Science Publishers, Hauppauge, NY, 2012. Hardcover and ebook.
- Louboutin, J. P. and Strayer, D. S. “Modulation of microglial reaction in brain injury by novel therapeutic tools based on gene therapy approaches”. In C. Kaur and L. Eng-Ang (Eds.): *Microglia*.

TECHNICAL REPORTS

- Ragoobirsingh, Dalip. The World Justice Project Report (WJP) Rule of Law Index, November, 2012, Report. <http://worldjusticeproject.org>

REFEREED JOURNAL

- Stennett, Dewayne, Oladeinde, Frederick, Wheatley, Andrew, Dilworth, Lowell, Bryant, Joseph and Asemota, Helen. (2013). Modulation of the antioxidant status of the hearts and brains of genetically modified hypercholesterolemic mice overproducing HDL cholesterol following acute bitter yam supplementation. *Oxidants and Antioxidants in Medical Science* (in press).
- Stennett, Dewayne, Oladeinde, Frederick, Wheatley, Andrew, Bryant, Joseph, Dilworth, Lowell and Asemota, Helen. (2013). Effects of *Dioscorea polygonoides* (Jamaican Bitter Yam) supplementation in normocholesterolemic and genetically modified hypercholesterolemic mice species. *Journal of Food Biochemistry*. Available online at <http://authorservices.wiley.com/bauthor/onlineLibraryTPS.asp?DOI=10.1111/jfbc.12022&ArticleID=1104068>
- Dilworth, L., Gardner, M., Asemota, H. and Omoruyi, F. (2012). Intestinal morphology assessments of rats fed phytic acid extract from sweet potato (*Ipomea batatas*) and IP6. *Basic and Applied Pathology* 5:84–90 (doi:10.1111/baap.12000)
- Dilworth, Lowell, Brown, Kesi, Wright, Racquel, Oliver, Michelle, Hall, Sannette and Asemota, Helen (2012). Antioxidants, minerals and bioactive compounds in tropical staples. *African Journal Food Science and Technology*. 2012 3(4): 90–98. <http://interesjournals.org/AJFST/Contents/2012%20CONTENT/May.htm>
- Green, C. O., Wheatley, A.O., McGrowder, D.A., Dilworth, L.L. and Asemota, H.N (2012). Modulation of antioxidant enzymes activities and lipid peroxidation products in diet-induced

hypercholesterolemic rats fed Ortanique peel PMFs extract. *Journal of Applied Biomedicine* 10(2): 91–102. ISSN 1214-0287.

- Harvey, A., Adebayo, S., Wheatley, A. and Asemota, H. N. (2012). Effects of Acetylation on the Micromeritics of Yam (*Dioscorea* sp.) Starch Powder for Pharmaceutical Application. *West African Journal of Pharmacy* (2012) 23(2): 27–33.
- Carrington, S., Cohall, D. H., Gossell-Williams, M., Lindo, J. R. (2012). The Antimicrobial Screening of a Barbadian Medicinal Plant with Indications for Use in the Treatment of Diabetic Wound Infections Vol. 61, Issue 9: 861–64.
- Gossell-Williams, Maxine, Martin, Jacqueline, Neita, Susanne, Gibson, Roger, C., Abel, Wendel, Sewell, Clayton, McGrowder, Donovan (2012). Prevalence of The Metabolic Syndrome in patients presenting to UHWI: a need to adopt proactive screening and specific management policy. Vol. 61, Issue 8: 802–8.
- Williams-Johnson, J., Williams, E., Gossell-Williams, M., Sewell, C. A., Abel, W. D., Whitehorne, P. A. (2012). Suicide Attempt by Self-poisoning: Characteristics of suicide attempters seen at the Emergency Room at the University of the West Indies. *West Indian Medical Journal* 2012; 61(5): 226–231.
- Santos, Ana Luisa, Gardner, Michael, T. and Allsworth-Jones (2013). Treponematosi in Pre-Columbian Jamaica: a bicultural approach to the human cranium found in Bull Savannah. *Journal of Archaeological Science*. 2013;40: 490–496.
- Johnson, P. B., Cawich, S. O., Roberts, P., Shah, S., Gardner, M. T., Gordon-Strachan, G. and Pearce, N. W. (2013). Variants of hepatic arterial supply in a Caribbean population: A computed tomography based study. *Clinical Radiology*. 2013; 68: 823–827. doi:pui: S0009-9260(13)00128-1. 10.1016/j.
- Dilworth, Lowell, Gardner, Michael, Asemota, Helen and Omoruyi, Felix. (2012). Intestinal morphology assessments of rats fed phytic acid extract from sweet potato (*Ipomoea batatas*) and IP6. *Basic and Applied Pathology* 2012; 5: 84–90.

- Ogunsalu, C., Arunaye, F. I., Ezeokoli, C., Gardner, M., Rohrer, M., Prasad, H (2012). Mathematical model for osteoblast function in bone regeneration mechanisms: a headway in skeletal tissue engineering *West Indian Medical Journal*. 2012 Nov; 61(8): 814–20.
- Johnson, P.B., Cawich, S. O., Shah, S., Gardner, M. T., Steadman, B., Pearce, N. W. (2013). Vascular Supply to the Liver: Report of a Rare Arterial Variant. *J Rad Case Rep*. 2013 (in press).
- Johnson, P. B., Cawich, S. O., Shah, S, Aiken, W., McGreggor, R., Brown, H. and Gardner M. T. Accessory renal arteries in a Caribbean population: CT based Study (in press).
- Louboutin, J.P., Strayer, D. S. Relationship between the chemokine receptor CCR5 and microglia in neurological disorders. Consequences of targeting CCR5 on neuroinflammation, neuronal death and regeneration in a model of epilepsy. *CNS & Neurological Disorders-Drug Targets* (in press).
- Kang, S., Louboutin, J. P., Datta, P., Landel, C. P., Martinez, D., Zervos, A. S., Strayer, D. S., Fernandes.Alnemri., T. and Alnemri, E. S (2013). Loss of HtrA2/Omi activity in non-neuronal tissues of adult mice causes premature aging. *Cell Death Differentiation* 20: 259–269, 2013.
- Louboutin, J. P., Agrawal, L., Reyes, B. A. S., van Bockstaele, E. J., Strayer, D. S (2012). Gene delivery of antioxidant enzymes inhibits HIV-1 gp120-induced expression of caspases. *Neuroscience* 214:68–77, 2012.
- Louboutin, J. P., Marusich, E., Gao, E., Agrawal, L., Koch, W. J., Strayer, D. S (2012). Ethanol protects from injury due to ischemia and reperfusion by increasing vascularity via vascular endothelial growth factor. *Alcohol* 46:441–454, 2012.
- Louboutin, J. P., Strayer, D. S (2012). Blood-Brain Barrier abnormalities caused by HIV-1 gp120: Mechanistic and therapeutic implications. *The Scientific World Journal*, 2012: 482575.
- Agrawal, L., Louboutin, J. P., Reyes, B. A. S., van Bockstaele, E. J., Strayer, D. S (2012). HIV-1 Tat neurotoxicity: a model of acute and

chronic exposure, and neuroprotection by gene delivery of antioxidant enzymes. *Neurobiology of Disease* 45: 657–670.

- Louboutin, J. P., Reyes, B. A. S., Agrawal, L., van Bockstaele, E. J., Strayer, D. S (2012). Intracisternal rSV40 administration provides effective pan-CNS transgene expression. *Gene Therapy* 19:114–18.
- Ogunsalu, C., Arunaye, F. I., Ezeokoli, C., Gardner, M., Rohrer, M., Prasad, H (2012). Mathematical model for osteobstruction in bone regeneration mechanisms: a headway in skeletal tissue engineering. *West Indian Medical Journal*. 2012 November; 61(8):814–20.
- Nwokocha, C.R., Nwokocha, M. I., Mounmbegna, P. P., Owu, D. U., Onyezuligbo, O., Olu-Osifo, E. H., Okojie, E., Asuquo, E., Thaxter, K.,Ogunsalu, C (2012). Serum lipids, proteins and electrolyte profiles in rats following total body irradiation. *West Indian Medical Journal* 2012 March; 61(2):117–21.
- Nwokocha, C. R., Owu, D. U., McLaren, M., Murray, J., Delgoda, R., Thaxter, K., McCalla, G., Young, L. E (2012). Possible mechanisms of action of the aqueous extract of *Artocarpus altilis* (breadfruit) leaves in producing hypotension in normotensive Sprague-Dawley rats. *Pharmaceutical Biology* 2012; 50 (9):1096–1102.
- Nwokocha, C. R., Owu, D. U., Gordon, A., Thaxter, K., McCalla, G., Ozolua, R., Young, L. E (2012). Possible mechanisms of action of *Annona muricata* (soursop) in normotensive Sprague-Dawley rats. *Pharmaceutical Biology* 2012; 50(11):1436–1441.
- Nwokocha, C. R., Owu, D. U., Kinlocke, K., Murray, J., Delgoda, R., Thaxter, K., McCalla, G., and Young, L. E (2012). Possible mechanisms of action of the hypotensive effect of *Peperomia pellucida* and interactions between Human Cytochrome P450 enzymes. *Medicinal & Aromatic Plants* 05/2012.
- Nwokocha, C. R., Owu, D. U., Ufearo, C. S., Iwuala, M. O. E (2012). Comparative study on the efficacy of *Allium sativum* (garlic) in reducing some heavy metal accumulation in liver of wistar rats. *Food Chem. Toxicol.* 50; 222–226.

- Nwokocha, C. R., Mounmbegna, P. P. E., Nwokocha, M.I., Onyekachi, Onyezuligbo (2012). Effects of Total Body Irradiation on Fatty Acid and Total Lipid Content of Rats' Whole-Body. *Pakistan Journal of Pharmaceutical Sciences*. Vol.25, No.1, January 2012, pp. 169–173.
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- Fisher, L., Tennant, P and McLaughlin, W (2013). Diversity of citrus tristeza virus in Jamaica. *Journal of Plant Pathology* 95(1): 201–206.
- Andrade, G. and Brown, P. D (2012). A comparative analysis of the attachment of *Leptospira interrogans* and *L. borgpetersenii* to mammalian cells. *FEMS Immunology and Medical Microbiology* 65:105–115.
- Stephenson, S. and Brown, P. D (2012). Occurrence of class I integrons among uropathogenic fluoroquinolone-resistant *Escherichia coli* isolates in Jamaica. *Acta Pathologica, Microbiologica et Immunologica Scandinavica*. DOI: 10.1111/ j.1600-0463.2012.02960.x
- Allydice-Francis, K. and Brown, Paul D (2012). Diversity of antimicrobial resistance and virulence determinants in *Pseudomonas aeruginosa* associated with fresh vegetables. *International Journal of Microbiology* doi:10.1155/2012/426241.
- Batchelor, T., Stephenson, S., Brown, P. D., Amarakoon, D. and Taylor, M. A (2012). Impact of climate variability on the incidence of leptospirosis in Jamaica. *Climate Research* 55:79–90.
- Brown, Caneta, McFarlane-Anderson, Norma, Alexander-Lindo, Ruby, Bishop, Karen, Dasgupta, Tara and McGrowder, Donovan (2012). The Effects of S-Nitrosoglutathione and S-Nitroso-N-Acetyl-D,L-

penicillamine in a Rat Model of Pre-Eclampsia. *Journal of Natural Science, Biology and Medicine* 2012.

- Anderson-Jackson, Lennox, McGrowder, Donovan, A., Alexander-Lindo, Ruby (2012). Prostate Antigen Specific and Gleason Score in Men with Prostate Cancer at a Private Diagnostic Radiology Centre in Western Jamaica. *Asian Pacific J Cancer Prev*, 13, 1453–1456 (2012).DOI: [http://dx.doi.org/10.7314.APJCP.2012.13.4.1453](http://dx.doi.org/10.7314/APJCP.2012.13.4.1453).
- Barrett, S. C., Huffman, F.G., Johnson, P. Campa, A. Magnus, M. and Ragoobirsingh, D (2013). An Epidemiological Study of Jamaican Adolescents' Risk for Type 2 Diabetes and Cardiovascular Diseases. *British Medical Journal*. Open 2013; 3: e002817. doi:10.1136/bmjopen-2013-002817, 1–9.
- Gordon, C., Roopchand-Martin, S., and Gregg, A (2012). A Pilot Study Exploring the Potential of the Nintendo Wii as a Rehabilitation tool for Children with Cerebral Palsy in a Developing Country. (2012) 98(3): 238–42.
- Nelson, Gail, A., Bent-Forsythe, Denise A and Roopchand-Martin, Sharmella C (2012). Electromyographic Activity of the Rectus Abdominis During a Traditional Crunch and the Basic Jackknife Exercise with the Ab Lounge™ *Journal of Strength & Conditioning Research*. (2012) 26(6):1584–1588.
- Roopchand-Martin, Bateman, S (2012). An exploration of the concept of using the Nintendo Wii for balance training in patients with paraplegia. Accepted by the *New Zealand Journal of Physiotherapy*. (2012). 40(1); 13–16.
- Gordon, C, Wilks, R and McCaw-Binns, A (2013). The effect of aerobic exercise (walking) training on functional status and health-related quality of life in chronic stroke survivors. *Stroke*, 44, 1179–1181.
- Nelson, G (2012). Exercise-Induced Arterial Hypoxaemia – A Review. *Journal of Arts, Science and Technology*, Vol. 5 Special Issue No.1: 1–8.
- Nelson, G., Roopchand-Martin, S. (2012). Fighting the battle with exercise. *Carib Xplorer*. Vol. 3: 20–22.

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- Gordon, C., Roopchand-Martin, S., Gregg, A. (2012). Potential of the Nintendo Wii™ as a rehabilitation tool for children with cerebral palsy in a developing country: a pilot study. *Physiotherapy*. 98(3)238–242.
- Allydice-Francis, K and Brown, P. D (2012). Diversity of antimicrobial resistance and virulence determinants in *Pseudomonas aeruginosa* associated with fresh vegetables. *International Journal of Microbiology* doi:10.1155/2012/426241.
- Batchelor, T., Stephenson, T., Brown, P. D., Amarakoon, D and Taylor, M. A (2012). Impact of climate variability on the incidence of leptospirosis in Jamaica. *Climate Research* 55:79–90.
- Nwokocha, C. R., Baker, A., Douglas, D., McCalla, G., Nwokocha, M and Brown, P.D (2013). Apocynin ameliorates cadmium induced hypertension through elevation of endothelium nitric oxide synthase. *Cardiovascular Toxicology* 13. DOI 10.1007/s12012-013-9216-0.

ABSTRACTS IN PEER REVIEWED JOURNAL

- Thomas, E., Reid, G., Henry, L., Singh, P (2012). Preliminary investigation of the anti-inflammatory and analgesic properties of *Spathodea campanulata* (African tulip). *West Indian Medical Journal* 61 (S6): 39–40.
- Levy, Arkene, Gossell-Williams, Maxine, Murugan, Rajeswari, Quinonez, Yanira, Jordanal, Jackie, Rathinavelu, Appu and Dhandayuthapani, Sivanesan (2012). Pumpkin Seed Oil Induces Death of LnCap Prostate Cancer Cells by Inducing DNA Fragmentation, ROS Release and Reducing Mitochondrial Membrane Potential. *West Indian Medical Journal* 2012, 61 (Suppl6): p.32.
- Boyd, I., Gossell-Williams, M and Lee, M (2012). The use of analgesic drugs in young patients with sickle cell painful crisis. *West Indian Medical Journal* 2012, 61(Suppl 6): p.46.

- Campbell, J., Gossell-Williams, M and Lee, M (2012). Evaluation of the Trends associated with Reported Spontaneous Adverse Drug Events by healthcare professionals in Jamaica. *West Indian Medical Journal* 2012 61 (Suppl 6): p. 48.
- Golding, C., McKoy, M., Bennett, S and West, M (2012). Effect of the fluid from the bud of the spathodea campanulata plant on muscarinic receptors. *West Indian Medical Journal* 2012, 61 (Suppl 6): p.41.
- Gordon, C. D., Roopchand-Martin, S., Hunter, R (2012). Motives for Exercise Participation in Urban Communities in Jamaica. *Physical Therapy* (2012). 62, 6.
- Young, L. E., Webber-Waugh, A. M and Thaxter, K. A (2012). A nutritional supplement regime diminished addictive behavior and mean arterial pressure without affecting serum catecholamines. *Society for Neuroscience Abstracts Viewer* 2012; 874.08.
- Hall, M and Gordon, C (2012). Knowledge of the benefits of exercise and exercise participation in persons living with diabetes in Kingston and St. Andrew, Jamaica. *West Indian Medical Journal*, Supplement, Vol. 61, 7.
- Ragoobirsingh, D. (2013). “Diabetes Self-Management Education – The Jamaican Experience.” Mona Campus, Jamaica 50 Research Day – Research for Development 2013, University of the West Indies, Kingston, 70–73.

INCOME GENERATION/FUNDING

Research Grants

Dr. C. R. Nwokocha

- US\$4,890.00 from the Postgraduate Research Fund for the project “The effect of Potassium adaptation on some Hypertensive models; Vascular reactivity and Cell Signaling”.

Dr. Paul Brown

- US\$3,600 from the Research and Publication Fund as a support towards the project “Sero-ecology of Leptospiral exposure among students in the Faculty of Medical Sciences at UWI, Mona, Jamaica”.
- Quorum sensing and pathogenic potential of respiratory *Pseudomonas aeruginosa*. Campus Research and Publication Fund, UWI, Mona; PI (Awarded to Rochell Davis)

Dr. Dagogo Pepple

- US\$831.50 from the Postgraduate Research Fund pending ethical approval for the project “The effect of Endothelin-1 on the deformability and Oxygen delivery in Homozygous Sickle Cell disease”.
- J\$130,000.00 from the Postgraduate Research Fund towards the project “The effect of Trinolein on the Viscoelasticity and Oxygen release in steady state Homozygous Sickle Cell disease”.

Dr. Rachael Irving

- Jamaica National Building Society – Documentation of the scientific testing of Jamaican athletes and book: *Olympic DNA: Birth of the fastest Humans*. \$(US) 10, 2000.00, 2012.
- Supreme Ventures Foundation, Industrial and Technical Supplies, Sports Development Foundation, Spanish Court Hotel – Anti-doping in Sports Workshop Sponsorship Grant. \$(US) 14,000.00, 2013

Dr. Lisa Lindo

- US\$2,700.00 from the Postgraduate Research Fund towards the project “The effect of Inositol, Inositol Hexakisphosphate (Ip6) and its combination of Type 2 Diabetes Mellitus Sprague-Dawley Rats”.

Sasha-Kay Clarke

- J\$245,890.00 from the Postgraduate Research Fund towards the project “Isolation and characterization of Insect Vectors of Citrus greening and the role of weeds in the transmission of the disease in Jamaica”.

Diana Marshall

- J\$318,100.00 from the Postgraduate Research Fund towards the project “Isolation and characterization of Bacillus thuringiensis from soil samples collected from select locations in Jamaica”.

Crystal McLean

- US\$3,500.00 from the Postgraduate Research Fund towards the project “Biodegradation of Polycyclic Aromatic Hydrocarbons by Microorganisms isolated from soil and Kingston Harbour”.

JeAnn Murray

- US\$3,000.00 from the Postgraduate Research Fund towards the project “Chemopreventive potential of natural and synthetic compounds”.

Workshops

Animal Cell Culture workshop \$173,520.00

Summer Drug Research \$70,000.00

Physical Therapy Clinic J\$86,285

PUBLIC SERVICE

Professor Wayne McLaughlin

- Board Member, Coconut Industry Board
- Board member, Seprod Limited

Professor Dalip Ragoobirsingh

- Diabetes Association of Jamaica (DAJ): Consultant Diabetes Educator
- The University Diabetes Outreach Programme (UDOP): Director of the Research portfolio and intimately involved in the annual Diabetes Conference.

Department of Basic Medical Sciences

- University Hospital of the West Indies (UHWI): Consultant Diabetes Educator
- Pan American Health Organization (PAHO)/ World Health Organization (WHO): Temporary
- Consultant – Improvement of Quality of Diabetes care in the Caribbean.

Dr. Lauriann Young-Martin

- Lector and Member of the Liturgical Committee of Holy Cross Roman Catholic Church
- Member of the Fund-raising Committee of Holy Cross Church

Dr. C. R. Nwokocha

- Member, Organizing Committee of the FMSARC

Professor Omkar Parshad

- Director, Indian Cultural Society in Jamaica.
- Chairman, Sri Sathya Sai Baba Organization in Jamaica.
- Member, Lions Club of St. Andrew, Jamaica.

Dr. Paul Brown

- Ambassador to Jamaica, American Society for Microbiology (ASM).
- Council member, International Society for Infectious Diseases.
- Review Editor, *Frontiers in Antimicrobials, Resistance and Chemotherapy*.
- Editor, *Microbes and Health*.
- Independent Internal Examiner, Biology examination for course at UWI, St. Augustine.
- Independent Internal Examiner, DM Medical Microbiology thesis of Dr. Nathlee McMorris (UWI, Mona).
- Member, Planning Committee, Fulbright Academy Summit on Global Health 2013.

- Grant Reviewer, International Society of Infectious Diseases; four grant proposals reviewed.

Dr. Carron Gordon

- FMS Representative on the Council for Professions Supplementary to Medicine, Ministry of Health, Jamaica

Dr. Kerith Golden

- Vice President, Stock Farm Road Citizens Association, Golden Spring, St Andrew.
- Member of the Board (Vice President) for Jamaica Association for Children With Learning Disabilities. 7 Leinster Road, Kingston 5.

Dr. Rachael Irving

- Committee Member: National Sports Museum chaired by Honourable Portia Simpson-Miller, Prime Minister of Jamaica

Ms. Gillian Hudson

- Consie Walters Cancer Care Center Executive Member; Friends of Sir John Golding Rehabilitation Center

UNDERGRADUATE STUDENTS REGISTRATION

BB Med Sci.

Year 1 = 68

Year 2 = 41

Year 3 = 52

Physical Therapy

Year 1 = 60

Year 2 = 66

Year 3 = 62

FIRST CLASS HONOURS – BB MED SCI

Pharmacology

Kyomi Allen, Trisha Blair, Chevel Burke, Shanique Coke, Akeim Coulson, Sashana Dixon, Jannel Hall, Jason Spence and Danielle Williams.

Miss Sashana Dixon of the 2013 graduating class was awarded the Vanderbilt Summer Internship Award

POST GRADUATE STUDENTS REGISTRATION

Taught Masters

MSc Forensic Science – 29

MSc Applied Pharmacology – 8

Msc Physical Therapy -- 3

Research

MPhil – 38

PhD –15

POSTGRADUATE DEGREES AWARDED

Jacqueline Campbell	PhD Pharmacology
Dennis Bailey	PhD Biotechnology
Alexia Harvey	PhD Biotechnology
Anikki Burnett	MPhil Pharmacology
Anishka Lewis	MPhil Pharmacology

VISITORS TO THE DEPARTMENT

- Dr. Michael Rowe, applicant for the post of lecturer in the Physiology Section. Dr. Rowe is from the Indiana State University, Indiana, USA.
- Professor Ralph Edwards, former director of the World Health Organization Drug Monitoring Centre, Uppsala Sweden and Dr Marie Lindquist, current director of the World Health Organization Drug Monitoring Centre, Uppsala Sweden.
- Professor Kathleen Gould & Ms. Amanda Connolly Vanderbilt University. Dr. Linda Csiza from Texas Woman's University was visiting lecturer in the MSc Physical Therapy programme in June 2013. She taught Clinical Reasoning and Health Promotion.