



DEPARTMENT OF BASIC MEDICAL SCIENCES

Professor Paul D. Brown, BSc, MPhil, PhD (UWI) – Head of Department

WORK OF THE DEPARTMENT

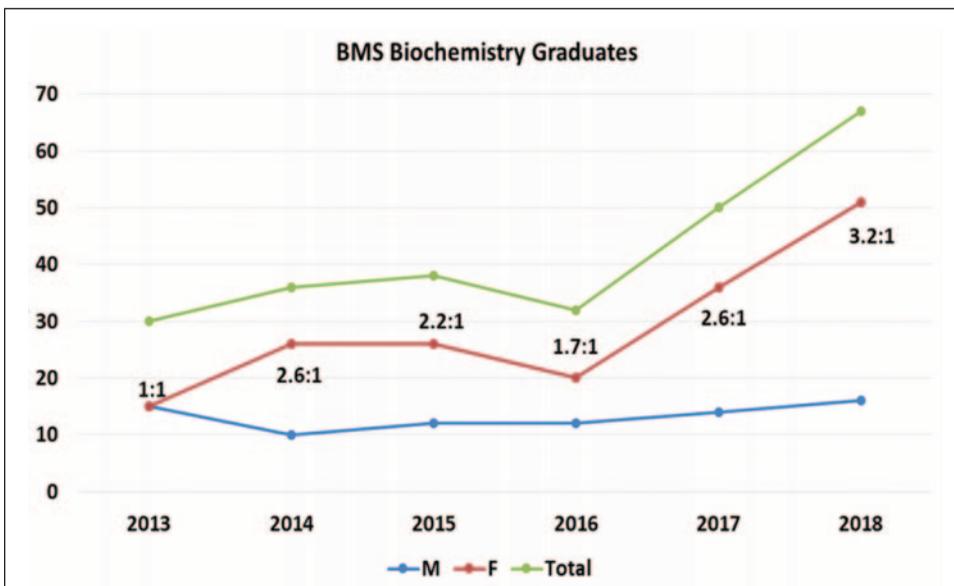
The Department remains committed to the promotion of excellence in teaching and research and to the creation of an environment which fosters growth and development among its students and staff. We are even more aware of the need to strive for excellence in curriculum delivery (graduate formation), scholarship and service. While low funding availability remains a major issue, academic staff are encouraged to collaborate both internally and externally, including internationally. Consequently, several students have travelled overseas to complete part of their research. An example of this is the continued collaboration with the University of Pennsylvania (Gene Therapy Program), where Professor JP Louboutin travelled with Donnahue Dennie, and with the University of Calgary, where Rohan Grant (MPhil student of Professor Paul Brown) visited on a Canada-CARICOM scholarship to do microbiome/viriome studies.

The issue of securing academic staff in vacant posts remain a concern, and in several cases, particularly in Anatomy, post-retirement contracts have had to be extended. However, vacant posts have been advertised, and shortlisting have taken place. There remains a concern about the time it takes for HRMD to finalize advertisements for posting. Five new posts approved for BMS for August 2019.

In terms of infrastructure, the pH neutralization system was serviced during the period under review (with help of Estate Management Division) to remove debris from rotors. The pH neutralization system, which holds approximately 3,144 gallons (11,900 Litres), is used to process all liquid laboratory waste that flow from the Faculty of Medical Sciences Teaching and Research Complex, prior to this joining the campus' sewer pipes for final deposition into the wastewater treatment plant in Hermitage.

With respect to Undergraduate teaching, the Department commenced development of a document that will detail the framework for teaching and learning and research

in BMS. This will include a review of programmes in all Sections, detailing aspects of teaching, learning and research (including resources), student profile, assessment processes and learning outcomes. As an example of the analysis, we noted in the Biochemistry Section (2013–2018):



- Females outperformed Males as graduates (1:1 in 2013 to 3.2:1 in 2018), and for all classes of honours and pass degrees

2:6:1	2:5:1	2:6:1	2:4:1	3:2:1	2:9:1
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- Female/Male intake into Biochemistry between 2013/14 and 2018/19 academic years varied between a 'low' of 2.4:1 (2016) to a 'high' of 3:2:1 (2017); class size was on average 220.

We noted that the F/M intake into postgraduate studies (MSc/MPhil/PhD; BAMS only programmes) between 2013/14 and 2018/19 varied between 1:1.4 (2017) and 2.8:1 (2016). However, the numbers have been trending down since 2015/16 (26), now at 13.

The revised BSc Physical Therapy curriculum was approved by the Board for Undergraduate Studies and was implemented in September 2018.

STAFF AWARDS AND PROMOTIONS

- Mrs. Tracia Kennedy-Dixon became the first certified Nuclear Pharmacist in the English-speaking Caribbean.

- Mr. Michael Gardner was conferred with the **Order of Distinction in the rank of Commander (CD)** in recognition of services to the Medical Sciences, in particular Anatomy and the Arts on October 15, 2018, Heroes Day at King's House.
- Dr. Aldeam Facey was the recipient of the 2018 Prime Minister's National Youth Awards for Excellence in the category of Innovation, Science and Technology for his study in quantified adipocytic contributions to basic lactate and created a novel metabolic profile of Jamaican athletes.
- Ms. Doreen Brown and Ms. Debbie-Ann Daley were promoted to Administrative Secretary.
- Drs. Icolyn Amarakoon and Karen Thaxter-Nesbeth crossed the merit bar effective August 1, 2019.

The following persons received renewal of contract for three years: Dr. Karen Thaxter-Nesbeth, Dr. Dewayne Stennett and Ms. Garsha McCalla.

- Ms. Garsha McCalla was promoted to the level of Lecturer effective August 1, 2019.
- Dr. Icolyn Amarakoon received a New Initiative grant from the Principal's Office for the project, "Investigation of Galectin-8 Expression Levels in Benign Prostatic Tissue and Prostate Cancer Cells" for the amount of J\$1,500,000.00.
- There was a regularization of status for Dr. Paul A. Brown. He was seconded from the Department of Community Health and Psychiatry to the Department of Basic Medical Sciences as Research Fellow to Professor Paul D. Brown for the period August 1, 2017 to July 31, 2019.
- Professor Jean-Pierre Louboutin was also appointed Head, Department of Basic Medical Sciences, with effect from August 1, 2019. He was appointed Frontiers Section Editor (Anatomy) for the journal "CNS & Neurological Disorders – Drug Targets".
- Dr. Simone Badal was one of the five women recently profiled in the world's premier science journal *Nature* as one of the biotechnologists making their mark on the international stage. <https://www.nature.com/articles/d41586-019-01693-7>.
- Ms Abigail Barrett was temporarily employed in the Secretary III post, as Ms. Simone Harrison (Library Assistant) was seconded to the Main Library.
- Dr Chukwuemeka Nwokocha and Professor Helen Asemota were part of the team of researchers who received the Principal's Research Award for Research Project with the Greatest Multidisciplinary/ Cross Faculty Collaboration at Research Day 2019, for their work Chemical and biological application of heteroaromatic ketone hydrazonic compounds: Molecular sensing, Catalytic, Anti-Cancer, Anti-Hypertension and others. Research was in conjunction with

co-authors Professor Mohammed Bakir, Dr. Peter Nelson and Dr. Marhoun Ferhat.

Professor Asemota also received the Wikipedia Recognition, 2019.
https://en.wikipedia.org/wiki/Helen_Asemota

- Mrs. Tracia Kennedy-Dixon was awarded the Jamaican Pharmacist of the year 2018 and received the Distinguished Pharmacy Researcher Award 2018 (November 2018). She was featured in the Gleaner: Trendsetter “Tracia-Gay – Jamaican Becomes Region’s First Nuclear Pharmacist” (September 9, 2019), and was interviewed on Television Jamaica’s Smile Jamaica – First Certified Nuclear Pharmacist in the English-speaking Caribbean (September 11, 2018).

PAPERS/POSTERS PRESENTED AT SCIENTIFIC MEETINGS

- McCalla Garsha, Brown Paul D and Nwokocha Chukwuemeka. Assessment of cardiovascular and haematological indices in cadmium-exposed rats. Oral presentation 3rd Inter-American Division Research Conference 2019, Northern Caribbean University, Mandeville.
- Riley M, Thomas R, Leitch J, Francis L, Miguel D, Dennie D, Bamed H, Lodenquai P, Shetty R, Brown PL, Welds D, Gardner MT, Louboutin JP (2018). Evaluation of student response systems (clickers) in Anatomy. Research Days, February 2019, The University of the West Indies, Mona Campus.
- Dennie D, Johnson F, Louboutin JP (2018). A modified cresyl-violet method for staining neurons. Research Days, February 2018, The University of the West Indies, Mona Campus.
- Dennie D, Johnson F, Louboutin JP (2019). A quantitative analysis of the cornu ammonis of the hippocampal formation in control versus seizure-induced Sprague Dawley Rats. 9th International Federation of Association of Anatomists (IFAA) meeting in London, August 9–11 2019.
- Fearon SA, Gardner MT (2019) Sexual dimorphism in the Afro-Caribbean skulls using linear measurements of the palate with emphasis on the incisive canal. 9th International Federation of Association of Anatomists (IFAA) meeting in London, August 9–11, 2019.
- Williams, SKP., Edwards, B. Palmer, W. (2018) Choices and limitations to postgraduate education for Jamaican physiotherapist. W.I. Med. J 67(supplement 4): 1-52. ISSN 0799-5199 (Online) ISSN 0043-3144 (Print)
- Palmer, W., Williams, SKP., Clarke, D. (2018) Student perception of online classes using Blackboard Collaborate. W.I. Med. J 67(supplement 4): 1–52. ISSN 0799-5199 (Online) ISSN 0043-3144 (Print)

- Young-Martin, L. (2019). *Stress Physiology and Diabetes mellitus* was presented at the University Diabetes Outreach Programme 25th Annual International Diabetes conference, April 25–27, 2019 at Jewel Runaway Bay, Jamaica.
- Gordon C. Exercise self-efficacy, body image and body mass index in female university students in Jamaica. Presented at the World Confederation for Physical Therapy Congress held in Geneva, Switzerland, May 2019.
- Williams, SKP., Edwards, B. Palmer, W. Choices and limitations to postgraduate education for Jamaican physiotherapist. Presented at the Faculty of Medical Sciences UWI, Annual Research Conference, November 2018.
- Palmer, W., Williams, SKP., Clarke, D. Student perception of online classes using Blackboard Collaborate. Presented at the Faculty of Medical Sciences, UWI, Annual Research Conference, November 2018.
- Green Curtis, Francis-Emmanuel Patrice, Nelson Gail, Boyne Michael, Lillycrop Karen, Godfrey Keith, Forrester Terrence. Association of severe acute malnutrition in childhood with markers of sarcopenia in adult life. Presented at the UK-UWI Frontiers of Science Meeting in the United Kingdom, March 2019.
- Nelson G. Cardiac Rehabilitation. Presented at the University Hospital of the West Indies Physiotherapy Department Symposium, Kingston Jamaica, September 4, 2018.
- Kerr, Valerie. Literature Review, Research Methodology & Data Analysis. Presented at the Pharmaceutical Society of Jamaica Continuing Education Research Workshop at the University of Technology, Jamaica held June 29th and 30th, 2019.
- Nelson, Gail. Cardiac Rehabilitation. Presented at the University Hospital of the West Indies Physiotherapy Department Symposium, Kingston Jamaica, September 4, 2018.
- Stewart, Cheryl. Designer Genes: Improving the Efficacy of Molecular Diagnostic Tools in African Populations. The 5th Biennial Conference & Innovation Award of the Scientific Research Council, Kingston, Jamaica. November 20, 2018.
- Stewart, Cheryl. Bioinformatics in Medicine – the Cystic Fibrosis Example. The 7th Annual Society for Scientific Advancement Conference, Kingston, Jamaica. November 16, 2018.
- Stewart Cheryl. The World Health Organisation Expert Meeting on Genomics and Genetic Diseases, Pretoria, South Africa. April 8–11, 2019.
- Kemmoy Lattibeaudiere, Roy Porter, Ruby L. Alexander-Lindo (2018). Investigating the Effects of Extracts of *Desmodium canum* (Strong Back Weed) on Blood Glucose Levels, Blood Pressure and Testosterone in Sprague-Dawley Rats. The

Ministry of Health's 9th Annual National Health Research Conference, 'Oral Health, Intentional and Unintentional Injuries, Non-communicable Diseases Featuring Cancers, Family Planning' at Jamaica Conference Centre (November 22–23, 2018).

- Tameika Bartley, Paul Reese, Ruby L Alexander-Lindo (2018). A Hypotensive Effect of *Salvia serotina* (Chicken Weed) and the Hypoglycaemic Effect Compared with Metformin in Normal, Healthy Sprague-Dawley rats. The Ministry of Health's 9th Annual National Health Research Conference, 'Oral Health, Intentional and Unintentional Injuries, Non-communicable Diseases Featuring Cancers, Family Planning' at Jamaica Conference Centre (November 22–23, 2018).
- Foster S R, Dilworth LL, Omoruyi FO and Alexander-Lindo R L. (2019). Combined Inositol Hexakisphosphate and Inositol Displays Anti-diabetic and Antioxidant Properties in Streptozotocin-induced Diabetic Rats. University Diabetes Outreach Programme (UDOP). The 25th Annual International Conference, Diabetes and the Heart April 25–27, 2019 at Jewel Runaway Bay, Jamaica (**Second Place for Best Poster**)
- Peddie DA and Alexander-Lindo RL (2019). The Hypoglycaemic Potential of Sterols Isolated from the Rhizome of *Smilax balbisiana* (Chainy Root) in Normal Healthy Sprague-Dawley Rats. University Diabetes Outreach Programme (UDOP). The 25th Annual International Conference, Diabetes and the Heart April 25–27, 2019 at Jewel Runaway Bay, Jamaica. (**First Place for Best Poster**).
- Muir, S, Kennedy-Dixon, T, McKenzie, J, Wilson-Clarke, C and Gossell-Williams, M. A retrospective review of the potential warfarin drug interactions among patients of a pharmacist-led anticoagulation clinic. *In Proceedings of the 27th Annual Research Conference held November 8th–9th, 2018 at the University of the West Indies, Mona Campus. West Indian Medical Journal 67* (Suppl 4): 33, POSTER P-03.

ABSTRACTS

- Hordeaux J, Hinderer C, Buza EL, Louboutin JP, Jahan T, Bell P, Chichester JA, Tarantal AF, Wilson JM (2019). Infant Macaques Exhibit Safe and Sustained Expression of Human Iduronidase after Receiving an Intrathecal Cervical Injection of Adeno-Associated Virus 9. *Molecular Therapy*. 27; S1: P38.
- Nambiar K, Wang Q, Bell P, Buza E, Louboutin JP, Wilson JM (2019). In Vivo Characterization of a Novel Adeno-Associated Virus Natural Isolate that Targets Brain Endothelial Cells. *Molecular Therapy*. 27; S1: P93.
- Grant T, Bernard R, Porter R, Thomas S, Gordon C, (2018) Physical activity and

- perceived neighbourhood attributes in the Mona Heights community, Kingston, Jamaica. *West Indian Medical Journal* Vol 67, (Suppl 4), p.41.
- Williams, SKP., Edwards, B. Palmer, W. (2018) Choices and limitations to postgraduate education for Jamaican physiotherapist. *W.I. Med. J* 67(supplement 4): 32.
 - Palmer, W., Williams, SKP., Clarke, D. (2018) Student perception of online classes using Blackboard Collaborate. *W.I. Med. J* 67(supplement 4): 32.
 - Lattibeaudiere, Kemmoy, Porter, Roy, Alexander-Lindo, Ruby L (2018). Investigating the Effects of Extracts of *Desmodium canum* (Strong Back Weed) on Blood Glucose Levels, Blood Pressure and Testosterone in Sprague-Dawley Rats. National Health Research Conference.
 - Bartley, Tameika, Reese, Paul, Alexander-Lindo, Ruby L. (2018). A Hypotensive Effect of *Salvia serotina* (Chicken Weed) and the Hypoglycaemic Effect Compared with Metformin in Normal, Healthy Sprague-Dawley rats. National Health Research Conference p23.
 - Bartley TA., Reese PB., Lindo RL (2018). *Salvia serotina* (Chicken Weed) Displays Hypoglycaemic and Hypotensive Roles in Normal Sprague-Dawley Rats. *Jamaica Journal of Science and Technology* 28 (3): 54.
 - Foster, S. R., Dilworth, L. L., Omoruyi, F. O., and Alexander-Lindo, R. L. (2019). Combined Inositol Hexakisphosphate and Inositol displays anti-diabetic and antioxidant properties in Streptozotocin-induced Type 2 Diabetic Rats. *Jamaican Journal of Science & Technology*, 29(4): 47.
 - Peddie DA and Alexander-Lindo RL (2019). The Hypoglycaemic Potential of Sterols Isolated from the Rhizome of *Smilax balbisiana* (Chainy Root) in Normal Healthy Sprague-Dawley Rats. *Jamaican Journal of Science & Technology*, 29(4): 49.

CONFERENCES ATTENDED

- McCalla, Garsha. Third Inter-American Division Research Conference 2019, Northern Caribbean University, Mandeville.
- Williams, S. Faculty of Medical Sciences Annual Research Conference – November 2018.
- Young-Martin, L. The 25th Annual International Diabetes conference on Diabetes and the Heart held at The Jewel Runaway Bay, Jamaica, April 25–27, 2019.
- Ragoobirsingh, Dalip. The University of the West Indies Diabetes Outreach Programme 25th International Conference entitled: Diabetes and the Heart, April, 25–27, 2019, Jewels Resort & Spa, Runaway Bay, Jamaica.

- Kerr, Valerie. Cari-Med Limited, Pharmaceutical Continuing Education Seminar, October 21st, 2018 at The Jamaica Pegasus Hotel, Kingston, Jamaica.
- Kerr, Valerie. T. Geddes Grant, Pharmaceutical Continuing Education Seminar, December 2nd, 2018 at Knutsford Court Hotel, Kingston, Jamaica.
- Kennedy-Dixon, Tracia. December 03–07, 2018 IAEA-INT6061 – Workshop on Quality Management Audits in Nuclear Medicine Practices (QUANUM) for Latin America and the Caribbean, Montevideo, Uruguay.
- Kennedy-Dixon, Tracia. April 29–May 02, 2019 UNICEF/UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases – Effective Project Planning and Evaluation in Health Research, Kingston, Jamaica.
- Kennedy-Dixon, Tracia. July 15–19, 2019, IAEA-RLA6081– Regional Training Course on Radiation Protection in Medical Imaging, Kingston, Jamaica.

BOOKS AND BOOK CHAPTERS

Book

Book Chapters

- Louboutin JP, Strayer DS (2018). Gene delivery of antioxidant enzymes in HIV-1-Associated Neurocognitive Disorder. In Preedy VR and Watson RR (Eds.). *HIV/AIDS: Oxidative Stress and Dietary Antioxidants*. Academic Press, Elsevier. Chapter 10, pp. 107–123.
- Reid MK, Spence J, Nwokocha M, Palacios J, Nwokocha CR. The role of NADP (H) Oxidase inhibition and its implications in cardiovascular disease management using natural plants products. *Studies in Natural Product Chemistry*. August 2018, 58; 43–59. Elsevier Publishers.

Technical Reports

- International Group of Experts (including Stewart, C). World Health Organisation. (2019, April 8–11). *WHO Expert Meeting on Genomics and Genetic Disorders: Meeting Report. Integration of genomics in low- and middle-income countries: a call for action*.

Articles In Peer-Reviewed Journals

- Hordeaux J, Hinderer C, Buza EL, Louboutin JP, Jahan T, Bell P, Chichester JA, Tarantal AF, Wilson JM (2019). Safe and sustained expression of human iduronidase after intrathecal administration of adeno-associated virus serotype 9 in infant Rhesus monkeys. *Human Gene Therapy*. 2019. doi: 10.1089/hum.2019.012.

- Hinderer C, Bell P, Katz N, Vite CH, Louboutin JP, Bote E, Yu H, Zhu Y, Casal ML, Bagel J, O'Donnell, P, Wang P, Haskins ME, Goode T, Wilson JM (2018). Evaluation of Intrathecal Routes of Administration for Adeno-Associated Viral Vectors in Large Animals. *Human Gene Therapy*. 29:15–24.
- Taite, DR and Ali, MK (2018). Nicotine Exposure Before the Onset of Organogenesis Induces Irreversible Embryo Toxicity in Zebrafish. *Journal of Toxicology and Pharmacology*, 2018; 2:020
- Salmon, D and Ali, MK (2018). Evaluation of nicotine-alcohol crosstalk through novel tank zebrafish swimming pattern analysis. *Journal of Behaviour Neuroscience*, 1:1–14.
- Williams, SKP., Palmer, W. Anxiety in late life: The experience of Jamaican urban community dwelling older adults. *WIMJ* 2018; 67(5): 498.
- Young, L. et al. (2018). Evaluation of Year 1 Bachelor of Medicine, Bachelor of Surgery (MBBS) Student Performance. *West Indian Medical Journal*.
- Francis, R., Rodgers, Y., Salmon, C., Junior, G., Bahado-Singh, P. S., Smith, A., Wheatley, A. O., and Asemota, H. A. (2018). Glycemic index in the development of functional beverage. *European Journal of Experimental Biology*, 8(2), 13.
- Francis, R., Bahado-Singh, P. S., Smith, A., Wheatley, A. O., and Asemota, H. A. (2018). Glycemic index of some traditional fruits in Jamaica. *European Journal of Experimental Biology*, 8(3): 15.
- Francis, R., Bahado-Singh, P. S., Wheatley, A. O., Smith, A. and Asemota, H. A. (2019). Glycemic index of selected foods in Jamaica. *Pharmacovigilance and Pharmacoepidemiology*, 2(1), 13–16.
- Natwaine Sherune Gardner, Kedon JS Luke, Andrew O Wheatley, Winston De La Haye, Perceval Steven Bahado-Singh, Lowell L Dilworth, Donovan A McGrowder, Everard Barton, Lauriann E Young-Martin, Ajibeke Salako-Akande, Henry Lowe, Errol Morrison, Denise Eldermire-Shearer, Helen Asemota. (2019). Plasma Cocaine Metabolite Levels and Liver CYP450 3A4 Isoenzyme Activity as Indicators of Cocaine Metabolism in Rats Treated With Salako Supplements. Book Chapter In: *Strategic Applications of Measurement Technologies and Instrumentation*. Pages 1–21. IGI Global Publishers.
- M Williams, HN Asemota, E Williams, D McGrowder, C Nwokocha, M Voutchkov, R Francis. (2018). The effect of a combination treatment of biomagnetic therapy and a low glycaemic influenced diet on nonfasting blood glucose levels in type 2 diabetic rats. *Diabetes Management* 8(3): 74–81.
- Williams, M., Asemota, H.N., Williams, E., McGrowder, D., Nwokocha, C. & Voutchkov, M. (2018). The Effects of Biomagnetic Therapy in Type II Diabetic Rats and the potential uses in Nano-Technology. 7th IMEKO TC19 Symposium

on Environmental Instrumentation and Measurements, Aguascalientes, Mexico: Elsevier Press.

- Badal S, Turfus S, Rajnarayanan R, Wilson-Clarke C, Sandiford SL, (2018). Analysis of natural product regulation of opioid receptors in the treatment of human disease. *Pharmacol Ther.* 2018 Apr; 184:51-80. doi: 10.1016/j.pharmthera.2017.10.021.
- Gordon, C, Wilks, R, McCaw-Binns, A (2018). Factors associated with health-related quality of life of ambulatory stroke survivors in Jamaica. *West Indian Medical Journal*, 67 (5), 363. DOI: 10.7727/wimj.2018.170
- Beshel JA, Palacios J, Beshel FN, Nku CO, Owu DU, Nwokocha M, Bórquez J, Simirgiotis MJ, Nwokocha CR. Blood pressure-reducing activity of *Gongronema latifolium* Benth. (Apocynaceae) and the identification of its main phytochemicals by UHPLC Q-Orbitrap mass spectrometry. *Journal of Basic and Clinical Physiology and Pharmacology*. 2019; 20180178.
- Barrett-Brown, P, McGrowder, D and Ragoobirsingh, D. (2019). The Level of Satisfaction of Healthcare Personnel and Diabetic Patients Attending Outpatient Health Clinics in Jamaica. *Int. J. Diabetes and Clinical Research*. 6:101. DOI: 10.23937/2377-3634/1410101
- Nwokocha M, Romero CA, Holder C, Whyllie N, Wong H, Lietch J, Wilks R, Hosang M, Francis S, Brown PD, Paul T, Abel W, Barton E, Wilks R, Nwokocha CR. Blood Pressure Screening Campaign in Jamaica: May Measurement Month 2017. *Am J Hypertens*. 2019 Jul 27. pii: hpz117. doi: 10.1093/ajh/hpz117. [Epub ahead of print] 3.4 Impact Factor.
- Romero F, Palacios J, Jofré I, Paz C, Nwokocha CR, Paredes A and Cifuentes F. Aristoteline, an Indole-Alkaloid, Induces Relaxation by Activating Potassium Channels and Blocking Calcium Channels in Isolated Rat Aorta. *Molecules* 2019, 24, 2748; doi:10.3390/molecules24152748 3.098 Impact Factor.
- Thomas Beaney, Louise M Burrell Rafael R Castillo Fadi J Charchar Suzie Cro Albertino DamascenoRuan Kruger Peter M Nilsson Dorairaj Prabhakaran Agustin J Ramirez, Markus P Schlaich, Aletta E Schutte, Maciej Tomaszewski Rhian Touyz Ji-Guang Wan,g Michael A Weber, Neil R Poulter, MMM Investigators Genc Burazeri, Gentiana Qirjako, Enver Roshi, Rudina Cunashi, Mario J.C.C. Fernandes, Savarino S. Victória Pereira, Marisa F.M.P. Neto, Pombalino N.M. Oliveira, Ana C.G. Feijão, Yamila Cerniello, Marcos J. Marin, Fortunato Garcia Vasquez, Walter G. Espeche, Diego Stisman, Inés A. Fuentes, Juith M. Zilberman, Pablo Rodriguez, Kamsar Yu. Babinyan, Anna H. Engibaryan, Avag M. Avagyan, Arsen A. Minasyan, Ani T. Gevorkyan, Revathy Carnagarin, Melinda J Carrington, James E Sharman, Rebecca Lee, Sabine Perl, Ella Niederl, Fazila-Tun-Nesa Malik, Sohel R. Choudhury, Mohammad A. Al Mamun, Mir Ishraqzaman, Fiona

Anthony, Kenneth Connell, Tine L.M. De Backer, Jea Krzesinski, Martin D. Houenassi, Corine Y. Houehanou, Sekib Sokolovic, Rankica Bahtijarevic, Mary B. Tiro, Mosepele Mosepele, Tiny K. Masupe, Weimar S. Barroso, Marco A.M. Gomes, Audes D.M. Feitosa, Andrea A. Brandão, Roberto D. Miranda, Vanda M.A.A. Azevedo, Luis M. Dias, Glenda D.N. Garcia, Idiana P.P. Martins, Anastase Dzudie, Samuel Kingue, Florent A.N. Djomou, Epie Njume, Nadia Khan, Fernando T. Lanas, Maria S. Garcia, Melanie F. Paccot, Pamela I. Torres, Yan Li, Min Liu, Liying Xu, Li Li, Xin Chen, Junping Deng, Wenwu Zhao, Lingjuan Fu, Yi Zhou, Patricio Lopez-Jaramillo, Johanna Otero, Paul A. Camacho, Jose L. Accini, Gregorio Sanchez, Edgar Arcos, Jean-René M' Buyamba-Kabangu, Fortunat K. Katamba, Georges N. Ngoyi, Nathan M. Buila, Pascal M. Bayauli, Bertrand F. Ellenga Mbolla, Paterne R. Bakekolo, Christian M. Kouala Landa, Gisele S. Kimbally Kaky, Euloge K. Kramoh, Yves N.K. Ngoran, Michael H. Olsen, Laura Valdez Valoy, Marcos Santillan, Rafael G. Medina, Carlos E. Peñaherrera, Jose Villalba, Maria I. Ramirez, Fabricio Arteaga, Patricia Delgado, Holly Beistline, Francesco P. Cappuccio, James Keitley, Tricia Tay, Dejuma Y. Goshu, Desalew M. Kassie, Sintayehu A. Gebru, Atul Pathak, Thierry Denolle, Bezhan Tsinamdzgvrishvili, Dali Trapaidze, Lela Sturua, Tamar Abesadze, Nino Grdzeldze, Mark Grabfelder, Bernhard K. Krämer, Roland E. Schmeider, Betty Twumasi-Ankrah, Elliot K. Tannor, Mary D. Lincoln, Enoch M. Deku, Fernando S. Wyss Quintana, John Kenerson, Emmanuela D. Jean Baptiste, Wideline W. Saintilmond, Ana L. Barrientos, Brigitte Peiger, Ashley R. Lagos, Marcelo A. Forgas, Vivian W.Y. Lee, Brian W.Y. Tomlinson, Zoltán Járαι, Dénes Páll, Arun More, Anuj Maheshwari, Narsingh Verma, Meenakshi Sharma, Tapan K. Mukherjee, Mansi Patil, Arun Pulikkottil Jose, Arun More, Anant Takalkar, Yuda Turana, Bambang Widiantoro, Siska S. Danny, Suhar Djono, Saskia D. Handari, Marihot Tambunan, Badai B. Tiksnadi, Eka Hermiawaty, Elham Tavassoli, Mahsa Zolfaghari, Eamon Dolan, Eoin O'Brien, Claudio Borghi, Claudio Ferri, Camilla Torlasco, Gianfranco Parati, Nwokocha CR, Magdalene I. Nwokocha, Elijah N. Ogola, Bernard M. Gitura, Anders L. Barasa, Felix A. Barasa, Anne W. Wairagu, Wafula Z. Nalwa, Robert N. Najem, Ali K. Abu Alfa, Hatem A. Fageh, Omar M. Msalam, Hawa A. Derbi, Kzaki A. Bettamar, Urte Zakauskiene, Alvita Vickiene, Jessica Calmes, Ala'a Alkerwi, Manon Gantenbein, Henry L.L. Ndhlovu, Jones K. Masiye, Maureen L. Chirwa, Nancy M. Nyirenda, Tiyeze D. Dhlamini, Yook C. Chia, Siew M. Ching, Navin K. Devaraj, Nouhoum Ouane, Tidiani Fane, Sudhir Kowlessur, Bhooshun Ori, Jaysing Heecharan, Luis Alcocer, Adolfo Chavez, Griselda Ruiz, Cutberto Espinosa, Enrique Gomez-Alvarez, Dinesh Neupane, Harikrishna Bhattarai, Kamal Ranabhat, Tara B. Adhikari, Sweta Koirala, Ibrahim A. Toure, Kabirou H. Soumana, Kolawole W. Wahab, Ayodele B. Omotoso, Mahmoud U. Sani, Njideka U. Okubadejo, Sunil K. Nadar, Hassan A. Al-Riyami, Mohammad Ishaq, Feroz Memon, Sualat Sidique, Hafeez A. Choudhry,

- Rasheed A. Khan, Myrian Ayala, Angel J.O. Maidana, Graciela GG. Bogado, Deborah I. Ona, Alberto Atilano, Carmela Granada, Regina Bartolome, Loudes Manese, Arnold Mina, María C. Dumlao, Mariyln C. Villaruel, Lynn Gomez, Jacek Józwiak, Jolanta Małyszko, Maciej Banach, Mirosław Mastej, Manuel M. de Carvalho Rodrigues, Luis L. Martins, Alexandra Paval, Maria Dorobantu, Alexandra O. Konradi, Irina E. Chazova, Oxana Rotar, Miryan C. Spoares, Deolsanik Viegas, Bader A. Almustafa, Saleh A. Alshurafa, Adrian Brady, Pascal Bovet, Bharathi Viswanathan, Olulola O. Oladapo, James W. Russell, Jana Brguljan-Hitij, Nina Bozic, Judita Knez, Primoz Dolenc, Mohammed M. Hassan, Angela J. Woodiwiss, Caitlynd Myburgh, Muhammed Vally, Luis M. Ruilope, Ana Molinero, Enrique Rodilla, Teresa Gijón-Conde, Hind M. Beheiry, I.A. Ali, Asma A.A. Osman, Naiema A.W. fahal, Hana A. Osman, Fatima Altahir, Margaretha Persson, Gregoire Wuerzner, Thilo Burkard, Tzung-Dau Wang, Hung-Ju Lin, Heng-Yu Pan, Wen-Jone Chen, Eric Lin, Charles K. Mondo, Prossie M. Ingabire, Tatyana TA. Khomazyuk, Viktoriia V-Yu. Krotova, Elena Negresku, Olena Evstigneeva, Nooshin NB. Bazargani, Amrish Agrawal, Buthaina A. Bin Belaila, Aisha M. Suhail, Khalifa O. Muhammed, Hassan H. Shuri, Richard D. Wainford, Philip D. Levy, José JG. Boggia, Laura L. Garré, Rafael Hernandez-Hernandez, Jose A. Octavio-Seijas, Jesus A. Lopez-Rivera, Igor Morr, Amanda Duin, Minh V. Huynh, Sinh T. Cao, Viet L. Nguyen, Muoi To, Hung N. Phan, John Cockroft, Barry McDonnell, Fastone M. Goma, Charity Syatalimi, Jephath Chifamba, Rudo Gwini, Xin Xia. (2019). May Measurement Month 2018: a pragmatic global screening campaign to raise awareness of blood pressure by the International Society of Hypertension. *European Heart Journal*, ehz300, <https://doi.org/10.1093/eurheartj/ehz300>. 23.425 Impact Factor.
- Cifuentes M, Palacios J, Nwokocha C, Vega JL, A Lavado, Paredes A, Cifuentes F. Implementación de un modelo de vejiga de rata en cámara de órgano aislado para estudio de la hiperactividad del detrusor (Implementation of a rat bladder model in an isolated organ chamber for study of the hyperactivity of the detrusor) *REVISTA CHILENA DE UROLOGÍA TRABAJO ORIGINAL* 40 Volumen 84 | N° 1 año 2019.
 - Nwokocha CR, Warren I, Palacios J, Simirgiotis M, Nwokocha M, Harrison S, Thompson R, Paredes A, Bórquez J, Lavado A, Cifuentes F. Modulatory Effect of Guinep (*Melicoccus bijugatus* Jacq) Fruit Pulp Extract on Isoproterenol-Induced Myocardial Damage in Rats. Identification of Major Metabolites Using High Resolution UHPLC Q-Orbitrap Mass Spectrometry. *Molecules*. 2019 Jan 10;24(2). pii: E235. doi: 10.3390/molecules24020235. 3.098 Impact Factor.
 - Cifuentes F, Palacios J, Paredes A, Nwokocha CR, Paz C. 8-Oxo-9-Dihydromakomakine Isolated from *Aristolelia chilensis* Induces Vasodilation in Rat Aorta: Role of the Extracellular Calcium Influx. *Molecules*. 2018 Nov 21;23(11). pii: E3050. doi: 10.3390/molecules23113050. PMID:30469451 3.098 Impact Factor.

- Cifuentes F, Palacios J, Kuzmicic J, Carvajal L, Muñoz F, Quispe C, Nwokocha CR, Morales G, Norambuena-Soto I, Chiong M, Paredes A. Vasodilator and hypotensive effects of pure compounds and hydroalcoholic extract of *Xenophyllum poposum* (Phil) V.A Funk (Compositae) on rats. *Phytomedicine*. 2018 Nov 15;50:99-108. doi: 10.1016/j.phymed.2018.09.226. Epub 2018 Sep 26. 3.610 Impact Factor.
- Palacios J, Fonseca JM, Ayavire F, Salas F, Ortiz M, Sandoval JM, Benites J, Nwokocha CR, Zavala E, Paredes A, Barría I, Vega JL, Cifuentes F. Ascorbate attenuates oxidative stress and increased blood pressure induced by 2-(4-hydroxyphenyl) amino-1,4-naphthoquinone in rats. *Oxidative Medicine and Cellular Longevity*. 2018 Jul 26;2018:8989676. doi: 10.1155/2018/8989676. eCollection 2018. 4.936 Impact Factor.
- van Rensburg, J., Alessandrini, M., Stewart, C., & Pepper, M.S. (2018). Cystic Fibrosis in South Africa: A Changing Diagnostic Paradigm. *South African Medical Journal* 108: 624–628.
- T Kennedy-Dixon, S Muir, J McKenzie, C Wilson-Clarke, J Prout, M Gossell-Williams. Low Frequency of Major Potential Warfarin Drug Interactions among patients attending a Specialized Anticoagulation Clinic.

INCOME GENERATION/FUNDING

Research Grants:

- **Prof. Dalip Ragoobirsingh.** US\$6945.46 – 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.

Physical Therapy Clinic

- Therapeutic Massage Course. Use of Practical Rooms. TOTAL \$1,046,487

MEMBER OF LEARNED SOCIETY

Dr. Carron Gordon

Member, Jamaica Physiotherapy Association

Dr. Sonja Williams

Member, Jamaica Physiotherapy Association

Ms. Gail Nelson

Member, Jamaica Association of Sports Medicine

Member, Jamaica Physiotherapy Association

Associate Member, Caribbean Cardiac Society

Ms. Gillian Hudson

Member, Jamaica Physiotherapy Association

Dr. Cameil Wilson-Clarke

Anti-Cancer Research Jamaica Foundation (ACRJ)

American Association of Colleges of Pharmacy (AACCP)

International Pharmaceutical Federation of (FIP)

American College of Clinical Pharmacists (ACCP)

Bioethics Society of the English-Speaking Caribbean (BSEC)

American Society of Health System Pharmacist (ASHP), USA

Dr. Maxine Gossell-Williams

American Association of Colleges of Pharmacy

Dr. Valerie Kerr

Pharmaceutical Society of Jamaica

Mrs. Tracia Kennedy-Dixon

American Pharmacists Association (APhA)

PUBLIC SERVICE

Professor Paul Brown

- Staff mentor, American Society for Microbiology (ASM)/UWI Student Chapter. Appointed June 2018
- President, WIGUT (Jamaica). Re-appointed April 2018
- Co-chair, Blue Book Committee, Since December 2018
- Co-chair, Career Path Review Group, Since February 2016
- Adjudicator, American International School of Kingston (AISK) Middle School Science Fair. April 2018
- Member, Research Subcommittee, International Society of Infectious Diseases. Terms: Oversight of ISID's research grants & awards and fellowship programs. Appointed February 2015
- External Examiner, Microbiology programme at University of Technology. Appointed September 2014

Professor Helen Asemota

- Ordained Pastor – Holiness Christian Church of Jamaica Denomination, serving as Senior Pastor at Open Heavens Branch. 2013 to date
- Education Committee Chairperson, International Proxy Parents (IPP). 2015–2016
- IMEKO Member of TC 19 Group. 2014 to date
- IMEKO Rep – Jamaica. 2015 to date
- Project Principal Investigator (PI) for 2016 Workshop Training on Plants DNA Fingerprinting, United Nations University Biotechnology Programme for the Caribbean & Latin American Countries (UNUBIOLAC). 2015–2016
- Rosetown Holiness Christian Church, Kingston – 50th Anniversary Recognition Award for 5th Church planted out of the Church Ministry. Feb. 9, 2019.

Dr. Chukwuemeka R. Nwokocha

- Volunteer at Hypertension and Cardiovascular Research Unit, and Global Health Initiative, Henry Ford Hospital Detroit Michigan USA (June–August 2017). Research and dissemination of data on Environmental influences on health.
- Member Board of Directors, Little Angels Prep School Portmore Jamaica.
- Country coordinator, International society of Hypertension, 2018 May Month measurement for blood pressure awareness and management.

Dr. Rachael Irving

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

Professor Dalip Ragoobirsingh

- Diabetes Association of Jamaica (DAJ) – Consultant Diabetes Educator
- University Hospital of the West Indies (UHWI) – Consultant Diabetes Educator, Ministry of Health, Jamaica (MOH) – Panel member on Technical Advisory Committee, The Chronic Diseases and Injuries Unit, updating the National Guidelines for the management of diabetes.
- 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.

Dr. Lisa Lindo

- American Friends of Jamaica (AFJ) / Sue Cobb Lecture Series-Chair
- Caribbean Academy of Sciences, Director- Treasurer
- Fulbright Alumni Association School's Outreach Association
- Sts. Peter and Paul Sunday School Activities

- Catholic School Ministry
- Member of the UWI Medical Cannabis Research Group (MCRG)
- Member of UWI Mona Mosquito Research Group

Dr. Lauriann Young-Martin

- Member of the Alzheimer’s Association International Society to Advance Alzheimer’s Research and Treatment (ISTAART)
- Founding Member of the Bioethics Society of the English Speaking Caribbean (BSEC)
- Member of the Women in World Neuroscience (WWN)
- Member of the Society for Neuroscience (SfN)
- Member of the International Brain Research Organization (IBRO)
- Lector and Member of the Liturgical Committee of Holy Cross Roman Catholic Church

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

Prof. 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)

Dr. Audrey Jacob

- Participated in the Read across Jamaica Day events at Immaculate Conception Preparatory School

Dr. Carron Gordon

- Member and Ministry Leader, Christian Life Fellowship Church
- Manuscript Reviewer: *Disability and Rehabilitation Journal*, *British Medical Journal (Open)*

Ms. Gail Nelson

- Member of the Philharmonic Orchestra of Jamaica (2013 - to present) – Violist; Board of Management

- Member, UWI Classical and Jazz Ensemble (2015 – to present)
- Accredited Local Preacher – Methodist Church in the Caribbean and the Americas
- Member Board of Management of the Philharmonic Orchestra of Jamaica (2015 –present)

Dr. Sonja Williams

- Member, Jamaica Physiotherapy Association
- Continued involvement in the exercise classes for older adults offered by the Mona Ageing Centre

Ms. Gillian Hudson

- Member, Jamaica Physiotherapy Association
- Consie Walters Cancer Care Centre Executive Member; Friends of Sir John Golding Rehabilitation Centre

Dr. Jacqueline Campbell

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

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. Peter's Anglican Health Fair, Pharmaceutical Society of Jamaica Annual Week Health Fair
- Served on the Education Committee, National Kidney Foundation of Jamaica 2017: ACRJ Committee Member

Dr. Valerie Kerr

- Director, Joy Town Community Development Foundation
- Advisor, Board of Directors, Joy Town Learning Centre
- Volunteer, Covenant City Church Outreach Medical Team

Mrs. Tracia Kennedy-Dixon

- Volunteer Pharmacist – Community Health Fair of The FMS, UWI Mona in association with the Apostolic Intercessory Ministries in Port Maria, St. Mary on March 23, 2019

- Committee Member – University of the West Indies Sexual Health Awareness Initiative (UWISHAI)
- Committee Member – Pharmaceutical Society of Jamaica, Continuing Education and Training Committee
- Presentations on Nuclear Pharmacy– Jamaica Alumni Association of High Schools Education Fair, October 2018
- Immaculate Conception High School Medical Fair, November 2018
- Jamaica College Career Day, January 2019.

UNDERGRADUATE STUDENTS REGISTRATION

BB Med Sci.

Year 1 = 52

Year 2 = 26

Year 3 = 32

PHYL1010 (Human Physiology) Course

65 Year 1 Physical Therapy & PharmD Students successfully completed the year-long course

BSc – Physical Therapy

Enrolment

Year 1 = 44

Year 2 = 44

Year 3 = 41

Total = 129

Graduated

37 students graduated in October 2019 with the BSc Physical Therapy

POST GRADUATE STUDENTS REGISTRATION**Taught Masters**

MSc Forensic Science = 23

MSc Biomedical Research = 6

MSc Physical Therapy = 3

POSTGRADUATE AWARDS

- 2019 – The Most Outstanding Thesis Award (MOTA) for 2016/17 by Campus Committee for Graduate Studies and Research to Shadae Foster
- 2019 – University Diabetes Outreach Programme Conference – First Place Award for Outstanding Poster Presentation (April)
- 2019 – University Diabetes Outreach Programme Conference – Second Place Award for Outstanding Poster Presentation (April)
- 2018 – Scientific Research Council: The Young Scientist Award for Research to Shadae Foster.

VISITORS TO THE DEPARTMENT

- The External Examiner for the Final Professional Examination held in July 2019 was Dr. Patricia Smith from the University of East London, UK
- Dr Cheryl Holder, Dr Andrea Raymond (Faculty), and students from Florida International University, (FIU) on collaborative visit, under the auspices of The International Society of Hypertension May Measuring Month. May 2019.

VISIT TO OTHER INSTITUTIONS

- Dennie D, Fearon S, Louboutin JP. (Summer 2018). Gene Therapy Program. University of Pennsylvania, Philadelphia, PA, 19104, USA.