



DEPARTMENT OF BASIC MEDICAL SCIENCES

Prof. Jean-Pierre Louboutin · Head Of Department
MD, PhD

OVERVIEW

Vision of the Department

A multidisciplinary Department promoting excellence in teaching and research in Basic Medical Sciences at the regional and international levels.

Mission of the Department

To advance student development by improving the quality of teaching and to foster biomedical research and its dissemination at the Caribbean level and beyond.

Work Of The Department

The Department of Basic Medical Sciences comprise five sections: Anatomy, Biochemistry, Pharmacology and Pharmacy, Physiology and Physical therapy. This unique combination offers an integrated approach to a better knowledge of the Human body, as well as to the mechanisms observed during pathophysiological processes. With the establishment of the Pharmacy (PharmD) programme, the section of Pharmacology was renamed Pharmacology and Pharmacy in 2017. In continuing to build its core forensic and bio-analytical research and service facilities received approval and established an independent commercial Forensic Toxicology Unit under the name "CARIBBEAN TOXICOLOGY" (CARITOX). CARITOX provides forensic toxicology and consultancy services to the legal profession involved in both civil and criminal cases as well as clinical and non-clinical toxicology analytical services. CARITOX along with CARIGEN will provide a wide range of forensic services to clients and support teaching at the graduate and

undergraduate levels in forensic science and research within the University.

The Department underwent a Quality Assurance Review in November 2022 when the department was still operating online. This exercise highlighted the financial constraints being faced by the department due to a reduction in the budget as a result of the pandemic. The COVID-19 pandemic has significantly disrupted the normal functioning of The UWI and the Department of BMS, in particular. Limited financial resources due in part to the reduced numbers of students particularly in the MBBS programme in this academic year, has further imposed financial constraints on staff and students.

Partly due to the pandemic, the overall budget of the Department has been drastically reduced during Academic Years 2020-2021 and 2021-2022. The sum allocated to the reagents used for teaching and research, as well as for and cleaning supplies decreased substantially. We had to adapt our activities to this reduction of the budget allocation. Concerning the cleaning supplies, this was partly possible because of a reduced traffic in the building, and because there was no teaching in most of our large laboratories, and consequently less need for cleaning after the tutorials. We insisted on the cleaning protocols adopted during the pandemic (i.e., repeated cleaning of the most touched surfaces during the day), protocols which actually originated from BMS. The amount was slightly adjusted during Semester II Academic Year 2021-2022. Because we are now back face-to-face (Semester I Academic Year 2022-2023), with the same cleaning protocols as during the pandemic, and the students present during the Labs requiring more reagents, we requested for Academic Year 2022-2023 the same sum as in 2019 before the pandemic. However, considering the inflation, the constant devaluation of the Jamaican dollar, and the increase in the shipping costs, we can anticipate a reduction by around one third of the quantities of supplies that could have been purchased with the same sum in 2019. This situation will probably necessitate an adjustment of the budget during the Academic Year 2022-2023.

The teaching for Stage I MBBS/DDS Programme was delivered online during Academic Year 2021-2022, with synchronous sessions and recordings of the Laboratories made available on Black Board Collaborate and Zoom. Online teaching was also used for most of the Lectures for BBMedSc and PharmD Programmes, with the Laboratories being held face-to-face. Laboratories were resumed for Biochemistry in the second Semester of

Academic Year 2021-2022. The teaching is the section of Physical Therapy was mainly delivered face-to-face.

STAFF AWARDS AND PROMOTIONS

Dr. Simone Badal

- Runner-up for the Nature Research Award, Inspiring Women in Science, 2021. I was selected among more than seventy-five female applicants globally where I competed with distinguished female scientists from advanced settings like Harvard for their impactful global work. I was one of two runners-up. October 2021
- Flair Distinguished Award for Science and Technology, 2022. Thirty-five women in Jamaica were selected for their impactful work in the fields of, Agriculture, Arts and Culture, Business, Education, Entertainment, Fashion, Food, Health, Media and Communications, Nation Building, Science and Technology, Sports, and Volunteerism. The Award was presented at the fourth Flair Distinguished Award at the Pegasus Hotel, Jamaica, April 4th 2022 Scientific Research Council's 'S&T XXtrordineer JA.' Publication, 2022. I was selected as one of Jamaica's female pioneering scientist to participate in the S&T Xxtrondineers JA (Women in Science) Series, a recognition programme that highlights extraordinary female pioneers in science and technology. The documentary series and publication highlights the scientific works of phenomenal Jamaican women who have impacted the national development of our country. July 2022.

Dr Carron Gordon was promoted to the level of Senior Lecturer, effective August 1, 2021.

Dr. Sophia Bryan appointed Lecturer in the Biochemistry Section effective August 1, 2021.

Dr. Garsha Galla was awarded a Ph.D. Physiology degree in September 10, 2021 and Indefinite tenure appointment effective August 1, 2022.

Resignation

Karl Miller, Laboratory Technologist
Tashay White, Laboratory Technician
Jacquel Johnson, Laboratory Technician

Retirement

Doreen Brown

Long service Award

Dr. Paul Singh – 40 years

Dr. Icolyn Amarakoon – 30 years

Mrs. Sandra Bennett-Miller – 30 years

Mr. Dave Hartley – 30 years

Ms. Thornia Smith – 30 years

Prof. Paul Brown – 21 years

Dr. Marsha-Lyn McKoy – 21 years

Dr. Simone Badal – 15 years

Dr. Carron Gordon – 15 years

ACCESS

STUDENTS

UNDERGRADUATE STUDENTS REGISTRATION 2021/2022

BB Med Sci.

Year 1 = 23

Year 2 = 27

Year 3 = 28

(Physiology Major)

Year 2 = 2

Year 3 = 3

(Anatomy Major)

Year 2 = 10

Year 3 = 10

(Pharmacology Major)

Year 2 = 16

Year 3 = 17

BAMS1002 = 26

BAMS1005 = 24

BSc -Physical Therapy (2021-2022)

Enrollment

Year 1 = 43

Year 2 = 35

Year 3 = 41

Total = 119

Graduated

34 students graduated in October 2021 with the BSc Physical Therapy.

Three (3) were awarded

First Class Honours.

PharmD (Registrations in BMS courses)

Year 1 = 27

Year 2 = 26

Year 3 = 25

Year 4 = 22

Year 5 = 26

FST (Registrations in BMS courses)

Year 1

Semester 1

BIOC 1020 = 256

BIOC 1021 = 148

MICR 1010 = 126

MICR 1011 = 88

Semester 2

BIOC 1020 = 71

BIOC 1021 = 95

MICR 1010 = 176

MICR 1011 = 208

Year 2

Semester 1

BIOC 2014 = 161

Semester 2

BIOL 2312 = 165

MICR 2211 = 167

Year 3

Semester 1

BIOL 3312 = 77

BIOC 3013 = 73

Semester 2

BIOC 3011 = 65

BIOC 3014 = 38

MICR 3213 = 75
MICR 3214 = 28
BIOT 3113 = 50

BIOL 3313 = 49
BIOT 3114 = 46
BIOT 3116 = 25

POST GRADUATE STUDENTS REGISTRATION

Taught Masters

MSc Forensic Science = 18

MSc Physical Therapy = 9

MSc Biomedical Research = Year 1 = 8; Year 2 = 5

MSc

MSc FSCI (Biology) - 7

MSc FSCI (Chemistry) - 2

MSc FSCI (Pathology) - 3

MSc (Toxicology) - 4

PG Diploma Forensic Science = 2

Research

MPhil = 33

PhD = 27

POSTGRADUATE DEGREES AWARDED

PhD = 1

Henkel Valentine, Ph.D. In Biochemistry, 2021, "The Culture and Propagation of a Novel

Jamaican Prostate Cancer Cell Line." Received High Commendation.

MPhil = 1

MSc

Biomedical research = 3 and one transferred to PhD

MSc Forensic Science – Molecular Biology – 1

MSc Forensic Science – Toxicology – 1

MSc Forensic Science – Pathology – 1

PUBLICATIONS

REFEREED JOURNAL ARTICLES

- Williams Johnson, J., Graham, L., Williams, E., Campbell, C., Thomas, N., & Gossell-Williams, M. (2022). Clinical Elective Choices and Motivations for Future Career Specialty Selection of Medical School Trainees and Junior Doctors of the University of the West Indies, Jamaica. *International Journal of Medical Students*. 10(1): 49–55. <https://doi.org/10.5195/ijms.2021.1049> . (Journal Impact Factor = 5.62).
- Brown R, Bateman CJ, Gossell-Williams M. (2022). Influence of Jamaican Cultural and Religious Beliefs on Adherence to Pharmacotherapy for Non-Communicable Diseases: A Pharmacovigilance Perspective. *Frontiers in Pharmacology*.13; Article 858947. <https://doi.org/10.3389/fphar.2022.858947> . (Journal Impact Factor = 5.99).
- Toshiba Channer-Wallen, Paula Dawson, Peta-Gaye Thomas-Brown, Maxine Gossell-Williams (2022). Lack of Association between Serum Vitamin B12 and Nocturnal Sleep Parameters following Cyanocobalamin Supplementation in Healthy Adults, *Heliyon*, 8:e08831. <https://doi.org/10.1016/j.heliyon.2022.e08831> (Journal Impact Factor = 3.78).
- Badal S and Clement Y. *Pharmacognosy: Fundamentals, Applications & Future Strategies* 2nd Edition, 2022/2023. Published by Elsevier. (Journal Impact Factor = N/A).
- Badal S. Ethnically diverse cancer cell lines for drug testing. *Nat Rev Can*, 2022, 22:65-66. (Journal Impact Factor = 69.8).
- Badal S. The importance of ancestry and diversity in cell line collection and analysis for people of African ancestry. *Cancer Control*, 2021, 40. (Journal Impact Factor = 3.3).
- Clarke S, Chin SN, Dodds L, George SHL, and Badal S. Racial Disparities in Breast Cancer Treatment: From Preclinical to Clinical submitted to *Breast Cancer Research*. (Journal Impact Factor = 4.98).
- Valentine H, Aiken W, Morrison B, Zhao Z, Fowle H, Wasserman JS, Thompson E, Chin W, Young M,, Clarke S, Gibbs D, Harrison S, McLaughlin W, Kwok T, Jin F, Campbell KS, Horvath A, Thompson R, Lee NH, Zhou Y, Graña X, Ragin C, and Badal S. Expanding the prostate cancer cell line repository: insights into the first Caribbean cell line, ACRJ-PC28, submitted to *AACR Cancer Research Communications*. (Journal Impact Factor = N/A).
- McGrowder, D., Miller, F.G., Vaz, K., Anderson-Cross, M., Anderson-Jack-

- son, L., Bryan, S., Latore, L., Thompson, R., Lowe, D., McFarlane, S.R., & Dilworth, L. (2021). The Utilization and Benefits of Telehealth Services by Health Care Professionals Managing Breast Cancer Patients during the COVID-19 Pandemic. *Healthcare* 9(10), 1401. (Journal Impact Factor = 2.2).
- Peddie, D., Bryan, S., Francis, S. and Alexander-Lindo, Ruby L. (2021). Hypoglycaemic activity of *Smilax canellifolia* Mill. rhizomes: a bioassay-guided isolation and identification of synergistic compounds. *Clinical PhytoScience* 7:89. (Journal Impact Factor = 2.4).
 - A Dasantos, C. Goddard and D. Ragoobirsingh (2021). Self-care Adherence and Affective States in Barbadian Adults with Type 2 Diabetes. *AIMS Public Health*, 9(1): 62–72. DOI:10.3934/publichealth.2022006. (Journal Impact Factor = N/A).
 - A. Dasantos, C. Goddard and D. Ragoobirsingh (2022). Diabetes Distress in Barbadian Adults with Type 2 Diabetes. *AIMS Public Health*, 9(3): 471–481. DOI: 10.3934/publichealth.2022032. (Journal Impact Factor = N/A).
 - L. Young, B. Smith, A. Webber-Waugh, and K. Thaxter. Virgin coconut oil improved discriminative learning and working memory in aging cycling and non-cycling female Sprague-Dawley rats supporting its beneficial effect in retarding age-related cognitive decline. *Advances in Aging Research*, 2021;10(5):97-112. Doi:10.4236/aar.2021.105006. (Journal Impact Factor = 0.8).
 - Bartley, T.A., Turfus S., Reese, P.B., Alexander-Lindo, R.L. (2022). Validating the Hypoglycaemic and Hypotensive Roles of *Salvia serotina* (Chicken Weed) in Normal Sprague-Dawley Rats. ,” *The Scientific World Journal*, vol. 2022, Article ID 6547734, 11 pages, 2022. <https://doi.org/10.1155/2022/6547734>. (Journal Impact Factor = 2.1).
 - Lattibeaudiere K and RL Alexander-Lindo (2022). Oleic Acid and Succinic Acid Synergistically Mitigate Symptoms of Type 2 Diabetes in Streptozotocin-Induced Diabetic Rats. *International Journal of Endocrinology*, 2022. (Journal Impact Factor = 3.2).
 - DA Peddie, SJ Bryan, S Francis and RL Alexander-Lindo (2021). Hypoglycaemic Activity of *Smilax canellifolia* Mill. Rhizomes: A Bioassay-Guided Isolation and Identification of Synergistic Compounds. *Clinical Phytoscience* 7: 1-10 (CPHY-D-21-00096R2). (Journal Impact Factor = 2.4).
 - S Francis, C Frank, L Buchanan, S Green, R Stennett-Brown, G. Gordon-Strachan, Y Rubio-Palis, C Grant, RL Alexander-Lindo, C Nwokocha, D Robinson, R Delgoda (2021). Challenges in the control of neglected insect vector diseases of human importance in the Anglo-Caribbean

One Health. 2021;13: DOI: <https://doi.org/10.1016/j.onehlt.2>. (Journal Impact Factor = 3.6).

- .DA McGrowder, FG Miller, K Vaz, C Nwokocha, CF Wilson-Clarke, M Anderson-Cross, J Brown, L Anderson-Jackson, L Williams, L Latore, R Thompson and RL Alexander-Lindo (2021). Cerebrospinal fluid biomarkers of Alzheimer's disease: Current evidence and future Perspectives. *Brain Sciences*. 11: 215 (1090561). (Journal Impact Factor = 3.1).
- Nwokocha C, Palacios J, Ojukwu VE, Nna VU, Owu DU, Nwokocha M, McGrowder D, Orie NN. Oxidant-induced disruption of vascular K⁺ channel function: Implications for diabetic vasculopathy. *Archives of Physiology and Biochemistry*. 2022 Jun 23:1-2. (Journal Impact Factor = 4.1).
- Palacios J, Paredes A, Catalán MA, Nwokocha CR, Cifuentes F. Novel Oxime Synthesized from a Natural Product of *Senecio nutans* Sch. Bip. (Asteraceae) Enhances Vascular Relaxation in Rats by an Endothelium-Independent Mechanism. *Molecules*. 2022;27:3333. (Journal Impact Factor = 4.9).
- Ybañez-Julca RO, Palacios J, Asunción-Alvarez D, Quispe-Diaz I, Nwokocha CR, de Albuquerque RD. *Lepidium meyenii* Walp (red maca) supplementation prevents acrylamide-induced oxidative stress and liver toxicity in rats: Phytochemical composition by UHPLC-Q/Orbitrap/MS/MS. August 2022, *Plant Foods for Human Nutrition*. 2022;77:460–466 (Journal Impact Factor = 4.5).
- Thomas J, Anderson T, Green TJ, Nwokocha M, Palacios J, Pepple D, Nwokocha C. *Artocarpus altilis* (breadfruit) could reverse myocardial infarction through the normalization of the Oxygen haemoglobin dissociation curve. *Cardiovascular & Hematological Agents in Medicinal Chemistry*. 2022; 20:212-218. (Journal Impact Factor = 2.2).
- McCalla G, Brown PD, Cole WC, Campbell C, Nwokocha CR. Cadmium-induced hypertension is associated with renal myosin light chain phosphatase inhibition via increased T697 phosphorylation and p44 mitogen-activated protein kinase levels. *Hypertension Research*. 2021;44(8):941-54. (Journal Impact Factor = 3.9).
- Offor SJ, Nwokocha C, Mbagwu HO, Orisakwe OE. Hepato-Renal Effect of *Solanum Anomalum* Thonn. Ex. Schumacher Fruit Extracts on Lead-Exposed Albino Rats. *Discovery Phytomedicine*. 2021;8(2):56-66. (Journal Impact Factor = 6.6).
- Dike CS, Orish CN, Nwokocha CR, Sikoki FD, Babatunde BB, Frazzoli C, Orisakwe OE. Phytowaste as nutraceuticals in boosting public health. *Clinical Phytoscience*. 2021;7:1-23. (Journal Impact Factor = 2.4).

- Christian Jr J, Harewood K, Nna V, Ebeigbe AB, Nwokocha CR. Covid and the virtual classroom: the new normal? *Journal of African Association of Physiological Sciences*. 2021;9(1):1-9. (Journal Impact Factor = N/A).
- Davis R. and Brown P.D. Effects of antibiotic, nicotine, and aminoacid starvation stresses on biofilm production in respiratory *Klebsiella pneumoniae*. *Egypt J Med Microbiol* 2021;30:61-69. (Journal Impact Factor = N/A).
- Brown P.D. and Nedd G. (2021). In vitro competition and cooperation in co-cultures of *Klebsiella pneumoniae*, *Pseudomonas aeruginosa* and *Staphylococcus aureus*. *Pak J Microbiol*. 2021;1(02):3-11. (Journal Impact Factor = N/A).
- Thompson T., Brown P.D. (2021). Small interfering RNAs targeting *agrA* and *sarA* attenuate pathogenesis of *Staphylococcus aureus* in *Caenorhabditis elegans*. *J Infect Dev Ctries* 2021;15(12):1868-1875. doi:10.3855/jidc.13664. (Journal Impact Factor = 2.5).
- Michael T Gardner, Keerti Singh, Ramnandand Shetty, Zenica K Dabichan¹, Peter Ho¹, Jean-Pierre Louboutin, Shamir O Cawich. Rouvière's Sulcus in a Jamaican Population. *Medical Research Archives*. 2022;10. doi: <https://doi.org/10.18103/mra.v10i8.2941>. (Journal Impact Factor = N/A).
- Cawich SO, Gardner MT, Louboutin JP and Naraynsingh V. A clinically relevant classification classification of Rouvière's sulcus used in the West Indies. *Natl J Clin Anat*. 2022;11:169-72. (Journal Impact Factor = N/A).
- Cawich SO, Gardner MT, Shetty R, Zhang Y, Naraynsingh V. and Pearce NW. Clinical relevance of the caudate linguiform process (Ponticulus Hepatis) in the Human liver. *Natl J Clin Anat* 2022;11:126-30. (Journal Impact Factor = N/A).
- Gardner MT, Cawich SO, Shetty R, Lodenquai P and Zheng Y. Rare anatomic variant Celiac-mesenteric trunk in an Afro-Caribbean population. *Natl J Clin Anat*. 2021;10:112-117. (Journal Impact Factor = N/A).
- Kennedy-Dixon T, McDonnough K, Reid M, and Gossell-Williams M. Trends in the utilization of nuclear medicine technology in Jamaica: Audit of a private facility. *World Journal of Nuclear Medicine*. 2021;20:129-32. doi:10.4103/wjnm.WJNM_92_20. (Journal Impact Factor = N/A).
- Lindsay CM, Abel WD, Jones-Edwards E. et al. Form and content of Jamaican cannabis edibles. *J Cannabis Res*. 2021;3: 29. <https://doi.org/10.1186/s42238-021-00079-9>. (Journal Impact Factor = N/A).

Number of publications: 35

TECHNICAL REPORT

- D. Ragoobirsingh, WHO Guideline Development Group Nutrition Action 2013-14 et al, WHO Guideline: fortification of wheat flour with vitamins and minerals as a public health strategy WHO
- Press, Geneva: World Health Organization, June 3, 2022.
<https://creativecommons.org/licenses/by-nc-sa/3.0/igo>

BOOKS AND BOOK CHAPTERS

Book Chapter

- McGrowder, D., Anderson-Jackson, L., Dilworth, L., Mohansingh, S., Cross, M.A., Bryan, S., Miller, F., Wilson-Clarke, C., Nwokocha, C., Alexander-Lindo, R., & McFarlane, S. (2022). The Clinical Usefulness of Prostate Cancer Biomarkers: Current and Future Directions. In G. Kais, & Y. Hamdi (Ed.), Cancer Bioinformatics [Working Title]. IntechOpen
- McGrowder DA, Miller FG, Nwokocha C, Wilson-Clarke CF, Anderson M, Anderson-Jackson L, Williams L, Alexander-Lindo R. Medical Herbs and the Treatment of Diabetes Mellitus: Mechanisms of Action. In Treating Endocrine and Metabolic Disorders With Herbal Medicines 2021 (pp. 48-73). IGI Global.

ALIGNMENT

PAPERS/POSTERS PRESENTED AT SCIENTIFIC MEETINGS

- Prudence Hall, Minerva Thame, Georgianna Gordon-Strachan, Maxine Gossell-Williams, and Suzanne Soares-Wynter. Association of Birth Weight, Body Composition and Blood Pressure During Infancy in 1-Year-Old Jamaican Children. NUTRITION 2022 LIVE ONLINE, held virtually from June 14-16, 2022. Abstract Presentation Number: PO16-31-2.
- F. Dawson, M. Gossell-Williams, J. Cameron, C. Thoms Rodriguez. Detection and prevalence of AMPC Beta-Lactamase Producing Gram-Neg-

ative Bacteria among Urinary Isolates Obtained from Clinical Samples at a Tertiary Care Hospital in Jamaica. Presented at 12th Annual National Health Research Virtual Conference, 2021 November 17-19, 2021. Abstract number NHRC-21-P15.

- McKenzie, K, Gossell Williams, M, Campbell, J. Gender abdominal adiposity dimorphism of warfarin response in rats fed a vitamin K deficient diet. Presented at 12th Annual National Health Research Virtual Conference, 2021 November 17-19, 2021. Abstract number NHRC-21-13.
- Badal S, The first Caribbean Cell Line, ACRJ-PC28. Accepted for virtual poster presentation at the AACR 2021 Virtual Cancer Health Disparities Conference, October 2021.
- Badal, S. Oral presentation at the 21th Symposium of the Jamaica Association of Clinical Pathologists (JACP), on Sunday November 14, 2021 on Prostate Cell lines.
- Badal, S, One of six speakers at the London Global Cancer Week 2021 – NCI Center for Global Health Event Description, November 18th 2021 on “Toward a diverse and inclusive global cancer research workforce.”
- McCalla, G. Hypertension research: A step-wise approach to finding the mechanism of action of cadmium in hypertension induction. 23rd Annual Science Symposium, Northern Caribbean University, Mandeville, Manchester, February 15, 2022.
- Gordon, Carron, Jones, Thaon, Paul, Tomlin: “Out of many, one people”. Jamaica’s national motto reflected in inter-professional outreach activities at the University of the West Indies. Beyond Flexner USA Virtual Conference, April 2021.
- Nelson, Gail. “Rehabilitation of the Athlete with Long Covid”. Jamaica Association of Sports Medicine Workshop, March 27, 2022
- Nelson, Gail “The prevalence of sarcopenia amongst community-dwelling elderly in Jamaica”. 11th Annual International Conference on Frailty and Sarcopenia Research, September 29 – October 2, 2022.
- Satchell, Kathryn. “Stroke Rehabilitation”, ET Educates Seminar (Virtual) December 2021.
- Satchell, Kathryn. “Rehabilitation Strategies for the Neurological Patient”. Enhance Rehab Services Limited Seminar (Virtual), October, 2021.
- Bartley, T.A., Reese, P.B., Alexander-Lindo, R.L. The Antidiabetic Potential of Salvia Serotina (Chicken Weed) Active Principles in Sprague Dawley Rats. The 12th Annual Ministry of Health National Health Research Conference (Virtual). ‘COVID-19 Year in Review: A Multi-dimensional Perspective (Oral Presentation). November 17-19, 2021.

- Kevon Stewart, Chelsea Frank, Ruby Alexander-Lindo and Sheena Francis Therapeutic Botanicals application in Reducing Dengue transmission and other Aedes borne disease SEB-ISE Conference 2022
- Three Minute Thesis (3MT) Competition: Second Place Awarded, The UWI Mona Principal's Award and the People's Choice Award to: Ms. Davia Peddie, Ph.D. Graduate Student) Diabetes and Natural Products: Unlocked Potential of Chainy Root June, 2022
- Barnes T., Brown P.D. (2021). Small interfering RNAs targeting agrA and sarA attenuate pathogenesis in Staphylococcus aureus. 13th International Biennial Conference of the Pakistan Society for Microbiology. Government College University Faisalabad, Punjab, Pakistan, December 22-24, 2021.
- Stone, S., Thoms-Rodriguez, C., and Stephenson-Clarke, S.A. (2022) Delhi Metallo- β -Lactamase (NDM) Among Uropathogens in a Tertiary Hospital in Jamaica. American Society for Microbiology (ASM) Conference. Jun 9, 2022 – Jun 13, 2022.
- Stone, S., Thoms-Rodriguez C., and Stephenson-Clarke, S.A. Extended-Spectrum β -Lactamase Surveillance in Gram Negative Uropathogens in Patients at A Tertiary Care Hospital in Jamaica. 17th Annual CACM Symposium on October 29, 2021. (Best Oral Presentation Award)
- Stone, S., Thoms-Rodriguez, C and Stephenson-Clarke, S.A. (2021). Detection of Extended-Spectrum β -lactamase (ESBL) Producing Gram Negative Uropathogens in Patients at a Tertiary Care Hospital in Jamaica. American Society for Microbiology/ Federation of European Microbiological Societies (ASM/FEMS) World Microbe Virtual Forum 2021. Jun 20, 2021 – Jun 24, 2021.
- Sandiford, S. University of Miami, Department of Molecular and Cellular Pharmacology Programme in Biomedical Sciences Graduate Recruitment Event. Virtual via Zoom August 2021

CONFERENCES ATTENDED

- Dr. Sophia Bryan. The International Diabetes Federation (IDF) Virtual Congress (2021). Diabetes Complications and COVID-19 held on December 6-11, 2021.
- Prof. Dalip Ragoobirsingh. University Diabetes Outreach Programme, 27th Annual International Diabetes Conference, "Diabetes and COVID-19: Victor or Victim?" April 21-22, 2022. Virtual.
- Dr. Lauriann Young-Martin. The Alzheimer's Association International Conference® 2022 (AAIC®), July 29 – August 4, 2022 held in San Diego,

USA .

- Dr. Stacy Stephenson-Clarke. American Society for Microbiology Conference for Undergraduate Educators (ASMCUE). July 13 – 15, 2022
- Dr. Stacy Stephenson-Clarke. American Society for Microbiology (ASM) Conference. June 9, 2022 – June 13, 2022.
- Dr. Stacy Stephenson-Clarke. American Society for Microbiology/Federation of European Microbiological Societies (ASM/FEMS) World Microbe Virtual Forum 2021. June 20, 2021 -June 24, 2021

WEBINARS/WORKSHOPS ATTENDED

- Dr. Lauriann Young-Martin. AAIC webinar entitled: Nutrition, Metabolism and Dementia: Caffeine consumption and Dementia Thursday, April 28, 2022.
- Dr. Lauriann Young-Martin. AAIC webinar entitled: Diversity and Disparities PIA & Society for Behavioral and Cognitive Neurology (SBCN): Racial Disparities in Disorders of Cognition, Tuesday, May 3, 2022.
- Dr. Lauriann Young-Martin. AAIC webinar entitled: Nutrition, Metabolism and Dementia: Understanding the mechanistic link between type-2 diabetes and Alzheimer's disease. Wednesday, June 1, 2022.

ABSTRACTS

- Nelson, Gail. Prevalence of Sarcopenia amongst community-dwelling elderly in Jamaica. Journal of Frailty and Aging, Vol. 10, Suppl 1, 2021.
- Bartley, T.A., Reese, P.B., Alexander-Lindo, R.L. (2018) Salvia serotina (Chicken Weed) Displays Hypoglycaemic and Hypotensive Roles in Normal Sprague-Dawley Rats. Jamaica Journal of Science and Technology (3): 54.

PUBLIC SERVICE

Prof. Jean-Pierre Louboutin

- Member of Editorial Boards of 27 journals
- Frontier Section Editors- CNS & Neurological Disorders- Drug Targets
- Review of Grant projects for the Executive Unit for Financing Higher Education, Research, Development and Innovation, Romania.

Prof. Paul Brown

- Spotlight Awardee, The African Initiative Group for Microbiology
- Internal academic, Quality Assurance Review Team, Faculty of Medical Sciences Preclinical programme, The UWI, Cave Hill Campus
- Member, International Society for Infectious Diseases (ISID)-Pfizer Grant Challenge Expert Panel
- Member (at Large), Council on Microbial Sciences, American Society for Microbiology (ASM)
- Member, Workload Policy Committee, The UWI
- Member, Covid-19 Emergency Management Committee, The UWI, Mona Campus
- Independent Internal Examiner, MSc Medical Microbiology report of Khamiya Henry (The UWI, St. Augustine)
- Member, American Society for Microbiology (ASM)
- Staff mentor, American Society for Microbiology (ASM)/UWI Student Chapter.
- President, WIGUT (Jamaica).
- Associate Editor in Infectious Diseases, Frontiers in Medicine, Microbiology and Public Health
- Review Editor in Infectious Diseases, Frontiers in Medicine, Microbiology and Public Health
- Review Editor in Antimicrobial Resistance, Frontiers in Antimicrobials, Resistance and Chemotherapy

Prof. Wayne McLaughlin

- Board member, Cannabis Licensing Authority (CLA)
- Board Member, Scientific Research Council (SRC)
- Board Member, International Centre for Nuclear Sciences (ICENS)
- Advisory Committee Member, National Commission on Science & Technology (NCST)

Prof. Dalip Ragoobirsingh

- 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

an.

Prof. Maxine Gossell-Williams

- Mona Academic Board Representative Board of Graduate Studies & Research
- Mona Academic Board Representative University Library Advisory Committee
- Faculty of Medical Sciences Representative for Mona Library Advisory Committee
- The University of the West Indies Representative for Ministry of Science Energy and Technology UNESCO's Global Observatory of Science, Technology and Innovation Policy Instruments (GO-SPIN) Mapping Project Working Group.
- Frontiers in Pharmacology - Special Topic Editor

Dr. Lauriann Young-Martin

- Head of Section, Physiology, prepared the QA 2016-2021 Physiology Report,
- Chair of MREC Sub-Committee for Animal Research
- Co-Chair & Coordinator of the FMS Medicinal Cannabis and Psilocybin Research Groups
- FMS & BMS Student Advisor
- Member of the International Society to Advance Alzheimer's Research and Treatment
- (ISTAART).

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)
- Member Board of Management of the Philharmonic Orchestra of Jamaica (2015 - present)
- Accredited Local Preacher – Methodist Church in the Caribbean and the Americas

Dr. Carron Gordon

- Member and Ministry Leader, Christian Life Fellowship
- Manuscript Reviewer: BMC Public Health and Disability and Rehabilitation Journal

Dr. C. Gordon, Ms. Gail Nelson & Mrs Kathryn Satchell

Offered physiotherapy services along with 8 PT students, in the Interprofessional Health Fairs offered by the Faculty of Medical Sciences at 3 locations, in April and June 2022; Christian Life Fellowship, Papine, Kingston; Tarrant Primary School, Kingston and Petersfield, Westmoreland.

MEMBERSHIP IN LEARNED SOCIETIES

- Gail Nelson - Member: Jamaica Association of Sports Medicine
- Gail Nelson, Carron Gordon, Sonja Williams, Gillian Hudson - Members: Jamaica Physiotherapy Association
- Gail Nelson - Associate Member: Caribbean Cardiac Society
- Prof. Maxine Gossell-Williams - Executive Committee Member of North American Chapter of International Society of Pharmacovigilance.

AGILITY

INCOME GENERATION/FUNDING

Research Grants:

- Dr. Simone Badal. NIH, Emerging Global Leader Award K43, TW011387-01A1, \$500,000 USD, 2020, over five years for project, "Novel prostate cancer cell lines to address prostate cancer disparity in Black men." Year 3, 2022-2023 Awarded.
- Prof. Paul Brown. Campus Research and Publication Fund (CRPF), The UWI, Mona
- PI (Awarded to Steven Stone) Project title: The molecular characterization and two-component regulation of antibiotic resistance and virulence expression in lactamase-producing uropathogenic Enterobacteriaceae US\$3,000.00
- S. Stephenson-Clarke, 2022. Mona Campus Research and Publications and Graduate Awards awarded to PhD student Steven Stone for project "The Molecular Characterization and Two-Component Regulation of Antibiotic Resistance and Virulence Expression in Beta-Lactamase-Producing Uropathogenic Enterobacteriaceae" pursued by PhD student, Steven Stone US\$3,000.00. 4.S. Stephenson-Clarke, 2021. Mona Campus Research and Publications and Graduate Awards funding for project

“The Molecular Characterization and Two-Component Regulation of Antibiotic Resistance and Virulence Expression in Beta-Lactamase-Producing Uropathogenic Enterobacteriaceae” pursued by PhD student, Steven Stone US\$2,050.00

VISITORS TO THE DEPARTMENT

The External Examiner for the Final Professional Examination held in July 2022 was Dr. Patricia Smith from the University of East London, UK. She was a guest of the Section from July 2 to July 19, 2022.