

## DEPARTMENT OF BASIC MEDICAL SCIENCES

**Dr. Wayne McLaughlin, BSc Waterloo, PhD UWI**  
– Head of Department

### WORK OF THE DEPARTMENT

*I*n March 2009, the Department of Basic Medical Sciences undertook its first Quality Assurance Review since the merger of the four Departments. All staff contributed to this valuable exercise and many lessons were learnt. The review covered the BB Med Sci, MB BS, and Physical Therapy undergraduate programmes, MPhil and PhD programmes and the administration. The Review Team had high commendations for the work of the Physical Therapy programme, however



the need to employ teaching assistants to increase the staff to student ratio was recommended. The Team recommended that the BB Med Sci programme develop a curriculum that can be taught independently of the first year MB BS programme. The Review Team highlighted the overcrowding in the MB BS programme, and recommended the need to introduce technology such as digital histological images and to provide students with hands on experience in basic clinically-orientated practicals. The Team recommended that a strategic plan should be developed for the recruitment of graduate students into Anatomy and Physiology in order to achieve a critical mass and succession planning. The review highlighted the limited availability of resources for teaching and research and was emphatic that an adequate budget should be provided considering the increased enrolment of students. In the area of administration the Team recommended that there should be more effort to integrate the Academic Sections and that there should be more opportunities for technical, administrative and service staff to access training and personal development.

During the academic year, the Department made progress in implementing some of the strategic initiatives in its 2007-2012 Strategic

Plan that were in line with some of the recommendations from the Quality Assurance Review. The review of the Physical Therapy programme had begun and a committee to review and upgrade the BB Med Sci programme was established. Both the Physical Therapy and BB Med Sci programmes will increase student intake to 50 per year as of the 2009/2010 academic year. A new MSc Forensic Science programme was developed and was approved by Graduate Studies and Research. This programme will be introduced in the 2010/2011 academic year with areas covering forensic chemistry, forensic DNA science, forensic pathology, and forensic toxicology. In the area of infrastructure development and facilities, plans were completed for the construction of a 20,331 m<sup>2</sup> state-of-the-art complex for research, teaching and service. Construction is expected to begin in September 2009. The Department has also begun to invest in research infrastructure and has since commissioned a GC/MS for the screening of bioactive products, toxicology and drug testing.

In 2008/09 one-hundred and ninety-eight students were registered in the MBBS programme, 40 in the BB Med Sci programme and 43 in the Physical Therapy programme. Three-hundred and ten students were enrolled in the FPAS Biochemistry programmes. Students' assessment of teaching was good as the academic staff continue to be highly rated by students. In this academic year three academic staff members were recognised at the UWI/Guardian Life Premium Teacher of the Year Awards for outstanding lecturer and course assessments. Members of the academic staff and their postgraduate students participated in several international conferences, and were also successful in attracting significant research funds of approximately US\$244,000. The Research output continued at a steady pace as last year with approximately one original paper published per staff in peer reviewed journals.

## **STAFF AWARDS AND PROMOTIONS**

In the Pharmacology Section Dr. Oswald Simon was promoted to the rank of Professor and Dr. Arkene Levy was awarded the Fulbright Research Scholarship to pursue research at the Moores Cancer Institute, University of California, San Diego. Dr. Levy conducted research to evaluate the cytotoxic effect of plant extracts on human ovarian cancer cells. Dr. Maxine Gossell-Williams led a research team that received the Principal's award for one of the best publications in the Faculty of Medical Sciences.

The following academic staff members were also recognised at the UWI/Guardian Life Premium Teacher of the Year Awards for the Lecturer and Course Assessments: Sharmella Martin, Gillian Hudson-Ducasse and Carron Gordon. The following members of staff were also recognised for years of service to the department: Professor Helen Asemota, Mr. Winston Campbell, Dr. Michelle Hamilton (15 yrs); Mrs Yvonne Bailey, Mr. Gerald Cooper (21 yrs).

Dr. Icolyn Amarakoon, Mr. Winston Young, and Ms. Kadeesh Johnson were promoted to the posts of Chief Laboratory Technologist, Senior Scientific Officer, Senior Laboratory Technologist, respectively. Mrs. Yvonne Bailey, Senior Secretary successfully completed her BA Philosophy (Hons) degree. Ms. Camelia Campbell was promoted to Secretary III.

## **Staff Development**

Dr. Maxine Gossell-Williams received training in Pharmacovigilance sponsored by the World Health Organization held in WHO-Drug Monitoring Centre-Uppsala Sweden. Prof. Omkar Parshad was a guest lecture on Impact of Yoga on Hemodynamic Functions in Healthy Medical Students at the Department of Physiology, All India Medical Institute, New Delhi, India, June 22, 2009. Dr. C. Nwokocha and Dr. Lauriann Young-Martin attended a three-day staff development workshop on Academic Advising Training at UWI, held May 27 – 29, 2009. Dr. Lauriann Young-Martin participated in the UWI Medical Curriculum Harmonization Workshop held at the Cave Hill Campus, Barbados, May 20 – 22, 2009.

Technical staff members from the Anatomy and Physiology Sections attended the Caribbean Poison Information Network (CARPIN) Scientific Conference in Kingston. Mr. Garth Dawkins, Jr. Research Fellow attended the 29th International Workshop on Rapid Methods and Automation in Microbiology held at Kansas State University.

Ms. Talitha Farquharson attended the Jamaica Association of Secretaries and Administrators Annual Conference at the Sunset Jamaica Grande Resort, Ocho Rios, Jamaica.

## PAPERS PRESENTED

- Bahado-Singh, P.S., Wheatley, A.O., Boyne, M., Ahmad, M.H., Morrison, E.Y. St. A. and Asemota, H.N. (2009) Low-intermediate glycemic index Caribbean diet reduces glycemia, cardiovascular and inflammatory markers in overweight type 2 diabetics. 2nd international conference on Advanced Technologies and Treatments for diabetes, February 25-28, 2009, Athens Greece.
- Bowers, A. S., Pepple, D. J. and Reid, H. L. Oxygen delivery index in subjects with normal haemoglobin genotype (HbAA), sickle cell trait (HbAS) and homozygous sickle cell disease (HbSS) in stable and crisis states. International Society of Biorheology & International Society of Clinical Hemorheology Conference, Penns State, USA, July 9-13, 2008.
- Brown P.D., Human leptospirosis in Jamaica: 50 years on. 4th Curaçao Postgraduate Course on Infectious Diseases: an update. Curaçao World Trade Center, Curaçao, October 18-19, 2008.
- Brown P.D., Leptospirosis: The old and the new – a 50 year review. Caribbean Association of Clinical Microbiologists (Jamaica chapter) 3rd Annual Symposium, Kingston, Dec 5, 2008.
- Brown P.D., Leptospirosis: an emerging public health problem. Environmental Health Sciences Seminar, University of Minnesota, School of Public Health, Minneapolis, Minnesota, USA; January 7, 2009.
- Batchelor T., D.Amarakoon, P.D.Brown. Impact of climate variability on the incidence of leptospirosis in Jamaica. 26th International Congress of Chemotherapy and Infection. Toronto, Canada, June 18-21, 2009.
- Campbell-Grizzle Ellen, Jean William-Johnson, Maxine Gossell-Williams, Daniel Sarpong. Eric Williams. Jamaican Physician's Knowledge and Related Activities of Poison Management. Caribbean Poison information Network Conference May 30, 2009. Terra Nova All Suite Hotel.

- Cohall D.H. and P. D .A Singh (2009) The effect of an aqueous extract of *Smilax regelii* on the overall metabolic status of Sprague-Dawley rats and the investigation of its folklore medicine claim as a diuretic agent. 54th Annual Council and Scientific Meetings, Caribbean Health Research Council, St. Lucia, April 22-25, 2009.
- Crawford T., D. McGrowder, M.T. Gardner, L. Gordon. (2009). A Correlation of Socio-economic Status with Parity in Young Jamaicans. 34th Annual Conference of Caribbean Studies Association, Kingston Jamaica.
- Dilworth, L. Green, C. and Asemota H.N. (2008) Bioactive compounds and citrus polymethoxylated flavones in commonly eaten Caribbean foods and citrus cultivars. 122nd AOAC International Annual Meeting and Exposition, Dallas, Texas.
- Duncan, K., Reid, H. L. and Voutchkov, M. Lead concentrations in blood donors in Jamaica. 16th Annual Conference of the Faculty of Pure and Applied Sciences, UWI, Mona, Kingston, Jamaica, March 26-27, 2008.
- Gardner, Natwaine; Luke, Kedon; Bahado-Singh, Perceval; Dilworth, Lowell; Wheatley, Andrew; De La Haye, Winston and Asemota, Helen (2009). Nutritional supplements in the treatment (Secondary Prevention) of chronic Cocaine Dependence. National Institute of Drug Abuse, International Forum June 19-23, Reno, Nevada, USA.
- Gordon, C. "The effect of aerobic exercise training on disablement in community-dwelling persons with chronic stroke". Faculty of Medical Sciences Annual Research Conference, November, 2008.
- Harvey A. C., Riley C. K., Adebayo S. A., Wheatley A. O., Amad H. and Asemota H. N. Effect of Acetylation on Properties of Yam (*Dioscorea* Sp.) Starches and Subsequent Impact on Compaction and Mixing in Tablet Formulation. 122nd AOAC Conference 2008, September 2008.
- McFarlane-Anderson, N. Genetics of Diabetes. 15th Annual International Diabetes Conference: March 2009, Ocho Rios.

- Nelson, G. Exercise training for patients with stable chronic Heart Failure UHWI Cardiology Unit, Heart Failure Symposium, February 13, 2009.
- Riley, C.K., Wheatley, A.O., Adebayo, S.A. and Helen. N. Asemota (2008) A comparative investigation of the effect of physicochemical properties on the in vitro digestibility of yam (*Dioscorea sp.*) starches. Institute of Food Technologist Annual Meeting and Food EXPO, New Orleans, USA.
- Stephenson S., P. D. Brown, M. Wilks. Emergence of *qnr*-mediated quinolone resistance among Enterobacteriaceae in Jamaica. 26th International Congress of Chemotherapy and Infection. Toronto, Canada, June 18-21, 2009.
- Young-Martin, L. “Estrogen not testosterone enhances memory in aged male rat” 38th Annual Conference of the Society for Neuroscience (SFN), Washington D.C., USA, November 14-19, 2008.
- Young-Martin, L. “High Testosterone Coupled with Oestrogen Significantly Impaired Cognition in Aged Males”. Annual International Conference on Alzheimer’s Disease (ICAD), Reed Messe Wien, Vienna, Austria, July 11-17, 2009.

## PUBLICATIONS

### Books and monographs

- \* E. Morrison and D. Ragoobirsingh (2008). Diabetes in the Caribbean-An Epidemiological Review In: Epidemiology of Diabetes (Ekoe, J.M., Rewers, M., Williams, R and Zimmet, P., editors) John Wiley & Sons Publishing Company, London, England, 163-169.
- \* Barcelo A., C.D. Karkashian, E. Duarte de Munoz and D. Ragoobirsingh (2009) Atlas of Diabetes Education in Latin America and the Caribbean, 2nd Edition, Pan American Health Organization Publication, Washington, D.C, USA.

- \* Pitsaladis Y, Sands R, Irving R. (2009) Anthropology of Sport and Human Movement, 1st Edition Rowman & Littlefield Publishers, Lanham , MD, USA.
- \* Ragoobirsingh D and Ann Fullick (2009). Human and Social Biology for Caribbean Secondary Education Certificate, 2nd Edition, Pearson/Longman Publishing for the Caribbean, London, England.

## Refereed Journal Articles

*WIMJ* = *West Indian Medical Journal*

- \* Alexander-Lindo R. L, E. Y. St. A. Morrison, M. G. Nair and D. McGrowder (2007). A Study of the Effect of the fractions of the hexane bark and Stigmast-4-en-3-one isolated from *Anacardium occidentale* on glucose tolerance in an animal model. *International Journal of Pharmacology* 3 (1): 41- 47.
- \* Amarakoon, I. I., Roye, M. E., Briddon, R. W., Bedford, I. D., Stanley, J. (2008). Molecular characterization of Macroptilium yellow mosaic virus from Jamaica. *Plant Pathology* 57:417-426.
- \* Bailey-Shaw, Y., Golden, K. D., Pearson, A. G. M. and Porter, R. B. R. (2009). Characterization of Jamaican Agro-Industrial Wastes. Part I: Characterization of amion acids using high performance liquid chromatography: Precolumn derivation with phenylisothiocyanate. *Journal of Chromatographic Science* 47: 3-9.
- \* Bowers, A., Pepple, D. J. and Reid, H. L. (2008). Oxygen delivery index in subjects with normal haemoglobin (HbAA), sickle cell trait (HbAS) and homozygous sickle cell disease (HbSS). *Clinical Hemorheology and Microcirculation*. 40 (4): 303 - 309 (2008).
- \* Campbell S, R. Alexander-Lindo, T. Dasgupta, D. McGrowder and L. Gordon (2008). The Effect of S-nitroso-N-acetylpenicillamine and S-nitroso-captopril co-administered with cysteine on blood glucose concentration in an animal model. *American Journal of Biochemistry and Biotechnology* 4 (3): 265-272.

- \* Cawich, S. O., M. Gardner, R. Shetty and H. E. Harding (2009) A Post Mortem Study of Elongated Styloid Processes in a Jamaican Population. *Internet Journal of Biological Anthropology*: 3 (1).
- \* Choo-Kang, E. and Reid, H. L. (2008). Microalbuminuria in diabetes mellitus. *The International Journal of Medicine*. [http://www.priory.com/medicine/microalbuminuria\\_diabetes.htm](http://www.priory.com/medicine/microalbuminuria_diabetes.htm)
- \* Dilworth, L., Omoruyi, F.O., Reid, W. and Asemota, H.N (2008). Bone and Faecal Minerals and Scanning Electron Microscopic Assessments of Femur in Rats Fed Phytic Acid Extract from Sweet Potato (*Ipomoea batatas*). *Biometals* 21:133-141.
- \* Dilworth, L.L., Omoruyi, F. O. and Asemota, H.N. (2007). *In vitro* availability of some essential minerals in commonly eaten processed and unprocessed Caribbean tuber crops, *BioMetals*, 20:37-42. URL <http://dx.doi.org/10.1007/s10534-000-9012-4>.
- \* Gordon L. E. Morrison, D. McGrowder, Y. Pena-Fraser, E. Zamoraz, D. Garwood, R. Alexander-Lindo, R. Irving (2008). Effect of yoga and traditional physical exercise on hormone levels and percentage insulin binding receptor in patients with type 2 diabetes. *American Journal of Biochemistry and Biotechnology* 4 (1): 35-42.
- \* Gordon L, E. Y. Morrison, Ronald Young, Donovan McGrowder, E. M. Zamoraz, R. L. Alexander-Lindo and R. Irving (2008). Effect of exercise therapy on lipid profile and oxidative stress indicators in patients with type 2 diabetes. *BMC Complementary and Alternative Medicine* 8: 21.
- \* Gordon Lorenzo, Errol Y. Morrison, Donovan McGrowder, Ronald Young, David Garwood, Eslaen M. Zamoraz, Ruby Lisa Alexander-Lindo and Rachel Irving. Changes in Clinical and Metabolic Parameters After Exercise Therapy in Patients with Type 2 Diabetes. *Archives of Medical Sciences* 4 (4): 427-437.
- \* Gossell-Williams, M., K. Lyttle, T. Clarke, M. Gardner, O. Simon (2008). Supplementation with pumpkin seed oil improves plasma lipid profile and cardiovascular outcomes of

female non-ovariectomized and ovariectomized Sprague-Dawley rats. *Phytotherapy Research* 22 (7): 873-877

- \* Gossell-Williams, M, Davis A, Aiken W, R. Mayhew (2008) Herbal preparation use among patients with benign prostatic hyperplasia attending a urology clinic in Jamaica, West Indies. *WIMJ* 57:75
- \* Gossell-Williams M and S. Adebayo (2008). The “Pharm Watch” Programme: Challenges to engaging the Community Pharmacists in Jamaica. *Pharmacy Practice*. 6 (4):187-90.
- \* Jackson, Maria, Susan Walker, Candace Simpson, Norma McFarlane-Anderson, Franklyn Bennett, Kathleen Coard, Tomlin Paul, Trevor Tulloch, William Aiken, Robert Wan. (2009) Are food patterns associated with risk of prostate cancer in Jamaican men? *BMC Infectious Agents and Cancer*. <http://www.infectagentscancer.com/content/4/S1/S5>.
- \* James, T., Reid, H. L. and A. M. Mullings (2008). Are published standards for haematological indices applicable across populations?: An evaluation in Jamaican women. *BMC. Pregnancy and Child Health*. 8: 8-12.
- \* Jayaprakasam B, R. L, Alexander-Lindo, D. L. Dewitt and M. G. Nair (2007). Terpenoids from Stinking Toe (*Hymenae courbaril*) fruits with cyclooxygenase and lipid peroxidation inhibitory activities. *Food Chem*. 105: 485-490.
- \* McGrowder Donovan, Algie Williams, Lorenzo Gordon, Tazhmoye Brown, Ruby Alexander-Lindo, Rachael Irving, Michelle Hamilton, Yeiny T.P. Fraser (2009). Hypocalciurea in Preeclampsia and Gestational Hypertension due to decreased fractional excretion of calcium. *Archives of Medical Science* 5 (1): 80-85.
- \* McGrowder Donovan, Kevin Grant, Rachael Irving, Lorenzo Gordon, Tazhmoye Crawford, Ruby Alexander-Lindo, Yeiny T.P Fraser (2009). Lipid Profile and Clinical Characteristics of Women with Gestational Diabetes and Preclampsia. *JMB* 28 (2) 1-5.
- \* McLaughlin, P. D., McLaughlin, W. A., Maxwell, D. P., Roye, M. E. (2008). Preliminary identification of

begomoviruses infecting crops and weeds in Belize. *Plant Viruses* 2(1):58-63.

- \* Mulabagal Vanisree, Ruby L, Alexander-Lindo, David L. Dewitt and Muraleedharan G.Nair. (2008). Functional Food Components of *Antigonon leptopus* Tea. *Food Chem.* 106: 487-492.
- \* Omole, M. A., Noah, N., Zhou, L., Almaletti N., Sadik, O.A., Asemota, H. N., William, E.S. and Gilchrist, J. (2009). Spectroelectrochemical Characterization of Pain Biomarkers. *Analytical Biochemistry*. [www.elsevier.com/locate/yabio](http://www.elsevier.com/locate/yabio).
- \* Pepple, D. J. and Reid, H. L. (2009). Alterations in hemorheological determinants and glycosylated haemoglobin in Jamaican diabetic patients with retinopathy. *Journal of the National Medical Association*. 101 (3): 258-260, (2009).
- \* Philippe Connes, Reid, Harvey. L., Hardy-Dessources, M-D., Morrison, Errol. and Hue, Olivier. (2008). Physiological Responses of Sick Cell Trait Carriers During Exercise. *Sport Medicine* 38 (11): 931-946.
- \* Powell, M., Wheatley, A.O., Omoruyi, F., Asemota, H.N., Williams, N.P. and Tennant, P. (2008) Effect of subchronic exposure to transgenic papaya (*Carica papaya* L.) on liver and kidney enzymes and lipid parameters in rats. *J. Sci. Food Agric.* 88: 2638-2647.
- \* Ragin, Camille, Angela Watt, Nina Markovic, Clareann H Bunker, Rb Robert P Edwards, Stacy Eckstein, Horace Fletcher, David Garwood, Susanne M Gollin, Maria Jackson, Alan L Patrick, M.Smikle, Emanuela Taioli, Victor W Wheeler, Jacque B Wilson, N Younger, Norma McFarlane-Anderson. (2009) Comparison of high – risk cervical cancer HPV infections in Caribbean and US populations. *BMC Infectious Agents and Cancer*. <http://www.infectagentscancer.com/content/4/S1/S9>
- \* Riley, C.K., Bahado-Singh, P.S., Wheatley, A.O., Ahmad, M.H. and Asemota, H.N. (2008). Relationship between the physicochemical properties of starches and the glycemic indices of some Jamaican yams (*Dioscorea* spp.). *Molecular Nutrition & Food Research* 52: 1372-1376.

- \* Riley, C. K., Adebayo, S.A., Wheatley, A.O. and Asemota, H.N. (2008) Surface properties of yam (*Dioscorea sp.*) starch powders and potential for use as binders and disintegrants in drug formulations. *Powder Technology* 185: 280-285.
- \* Riley, C. K., Adebayo, S.A., Wheatley, A.O. and Asemota, H.N. (2008). The interplay between Yam (*Dioscorea sp.*) starch botanical source, micromeritics, and functionality in paracetamol granules for reconstitution. *Eur. J. Pharm. Biopharm.* 70 (1):326-34. DOI.org/10.1016/j.ejpb.2008.03.001
- \* Singh, Keerti, D. Kesavi and Melani Rajendran (2009) Tendinous architecture of extensor digitorum. *The FASEB Journal.* 23: 821 822.
- \* Vanisree M, R. L, Alexander-Lindo, D. L. Dewitt and M. G. Nair (2008). Functional Food Components of *Antigonon leptopus* Tea. *Food Chemistry* 106: 487-492.
- \* Vigilance, J. E. and Reid, H. L. (2008). Segmental blood flow and reholological determinants in diabetics with peripheral occlusive arterial disease. *Journal of diabetes and its Complications* 22 (3): 210-216.
- \* Watt, A., David Garwood, Maria Jackson, Novie Younger, Camille Ragin, Monica Smikle, Horace Fletcher, Norma McFarlane-Anderson (2009). High-risk and multiple human papillomavirus (HPV) infections in cancer-free Jamaican women. *BMC Infectious Agents and Cancer.* [http://\\_Hlt238466432\\_Hlt238466432\\_Hlt238466433www.infectagentscancer.com/content/4/S1/S11](http://_Hlt238466432_Hlt238466432_Hlt238466433www.infectagentscancer.com/content/4/S1/S11).

### **Abstract in Peer Reviewed Journal**

- \* Allen S, Gordon C, Hudson-Ducasse G (2008): Exercise and Mental Health: Are there differences in some psychological measures between students on a university campus who exercise regularly and those who are sedentary? *WIMJ*: 57 (Suppl 4) 32.
- \* Cohall D.H. and P. D .A Singh (2009) The effect of an aqueous extract of *Smilax regelii* on the overall metabolic status of Sprague-Dawley rats and the investigation of its

folklore medicine claim as a diuretic agent' (Abstract) *WIMJ* 58 (S2): 54-55.

- \* Dyer R, Gossell-Williams M and Young L (2008). Induced deficit in hippocampal-dependent spatial memory development of pups from lithium-treated pregnant rats. *WIMJ*: 57(Suppl 4): 40 Abstract P-18.
- \* Dyer R, Gossell-Williams M and Young L (2009). Induced deficit in hippocampal-dependent spatial memory development of pups from lithium treated pregnant rats. *FASEB J*. 23:586.5.
- \* Gordon C, McCaw-Binns A, Wilks R (2008): The effect of aerobic exercise training on disablement in community-dwelling persons with chronic stroke. *WIMJ* 50: (Suppl 4).
- \* Lopez AN, Gossell-Williams M. D and Simon O. R (2009). Choline supplementation influences OGTT in presence of acute hyperhomocysteinemia *FASEB J*. 23:760.6.
- \* Pepple, D.J, L. E. Young and R. G. Carroll (2009) A Comparison of Students' Performance in Multiple Choice and Essay Questions in the MBBS Stage I Physiology Examination. *J. Physiological Sciences* 59 (Suppl. 1): P4AM-29-1.
- \* Solomon D, Roopchand-Martin S (2008): Do pain scores correlate with disability in Trinidadians with chronic low back pain. *WIMJ* 38: (Suppl 4).

## INCOME GENERATION

### *Research Grants:*

**Professor Helen Asemota, Dr. Andrew Wheatley and Dr. Perceval Bahadoosingh**

- Glycemic indices of Jamaican foods and the development of Low-GI products for diabetics and health conscious individuals. National Health Fund **US\$62,100.00.**

### **Professor Norma McFarlane-Anderson**

- Isoflavone and Lignan as biomarkers For Dietary Phytoestrogen Intake and their relation to Uterine Leiomyomata (fibroid) risk” Caribbean Health Research Council (CHRC). **US\$5,000.**
- Prostate cancer in Jamaican men: are there associations with inflammation, infection and genetic predisposition? Collaborators: Dr. Maria Jackson (Community Health & Psychiatry) and Dr. M. Tulloch-Reid (TMRI) CHASE fund **J\$6,360,000.**

### **Dr Sherline Brown**

- Coconut Industry Board/Common Funds for Commodities (CFC) “Sustainable Coconut Production through Control of Coconut Lethal Yellowing” (CFC/FIGOOF/22) – to study the mechanism of transmission on lethal yellowing phytoplasma in alternate hosts and vectors. **US\$36,000**

### **Dr. Paul Brown**

- Campus Research and Publication Fund, UWI, Mona; PI (Awarded to Gabrielle Andrade) **US\$2,050** for the project Investigation of the basis of attachment of *Leptospira* species to mammalian cells.
- Campus Research and Publication Fund, UWI, Mona; PI (Awarded to Ann-Tenneil O'Connor) **US\$1,700** for the project Mechanism of degradation of organic compounds and consequent biochemical effects in aquaculture species
- CHASE Fund; Co-PI (with Prof. John Lindo) **J\$3M** for the project
- “Malaria and leptospirosis as possible causes of fever during an epidemic of dengue in Jamaica”

### **Dr. Wayne McLaughlin**

- Coconut Industry Board (CIB)/Common Funds for Commodities (CFC) “Sustainable Coconut Production through Control of Coconut Lethal Yellowing” (CFC/FIGOOF/22) – to study the possible erosion of resistance to lethal yellowing in coconuts (Mrs Millicent Wallace (CIB) Postgraduate student) **US\$24,700.**

- Integrated Pest Management (IMP) Collaborative Research Support Project (CRSP) Sub Award Co-PI from Virginia Tech – “Insect-transmitted viruses in Central America, Caribbean and sub-Saharan Africa. US\$12,650.

**Dr. Paul Singh**

- Campus Committee for Research and Publication and Graduate Award for Anikki Burnett. Title: Investigations of extracts of a local plant used in Caribbean folklore medicine to treat diabetes mellitus. US\$2,500.

**Dr. Maxine Gossell-Williams**

- Campus Committee for Research and Publication and Graduate Award for Coretha Hyde.: Title: Evaluation of the physiological, cytological benefits of pumpkin seed oil supplementation in post-menopausal women. US\$1702.00.

**PUBLIC SERVICE**

**Professor Helen Asemota**

- Chairman, Institutional Research Board (IRB), Shaw University, North Carolina.
- Member, International Proxy Parents’ Education Committee, Jamaica.
- Member, Executive Committee, International Christian Fellowship (ICF), USA.
- Chairman & Co-Founder, Imade Asemota Foundation (IAF) for Sickle Cell Research & Patients’ Welfare, USA.

**Dr. Paul Brown**

Member, Technical working group on Leptospirosis, Jamaica

**Ms. Gillian Hudson-Ducasse**

- Member, Combined Disabilities Association
- Member, Friends of the Consie Walters Cancer Care Center

**Mr. Michael Gardner**

- Executive Member, Jamaica Historical Society

**Dr. Kerith Golden**

- Vice Chairman, Stock Form Road Citizens Association, Golden Spring, St. Andrew
- Member, Editorial Advisory Board for Stewarts Post harvest Review.

**Dr. Maxine Gossell-Williams**

- Scholarship Chair-Jamaica Fulbright-Humphrey's Alumni Association
- Member, Optimist club of North St. Andrew
- Pharmacology Section Representative – Central Drug and Therapeutics Committee- Ministry of Health.
- Executive Member, Citizen Association of Armour Glades

**Dr Arkene Levy**

- Staff representative, Rotoract club of UWI
- Member, CARPIN Education Subcommittee

**Professor McFarlane-Anderson**

- Chairman, Education Committee – International Proxy Parents
- Friends, Foundation for International Self Help (FISH).

**Dr. Wayne McLaughlin**

- Board Member, Coconut Industry Board
- Deputy Chairman, National Commission on Science and Technology, Biosafety Committee
- Council Member, Jamaica Society for Agricultural Sciences

**Ms. Gail Nelson**

- President, Jamaica Physiotherapy Association
- Jamaica's representative, North American/Caribbean Regional Chapter, World Confederation of Physical Therapy

**Prof. Omkar Parshad**

- Immediate Past President, Lions Club of St. Andrew, Jamaica
- Vice President, Indian Cultural Society in Jamaica.

**Professor Dalip Ragoobirsingh**

- Chief Examiner, Caribbean Examination Council, CSEC Human & Social Biology.
- Diabetes Educator, Diabetes Association of Jamaica (DAJ)

**Prof. Harvey Reid**

- Member, Board of Governors, Cross Keys High School, Manchester
- Member, Jamaica Wellness Cluster
- Member, Manchester Herb and Spices Association
- Member, Manchester Chamber of Commerce
- Member, Rural Agricultural Development Authority (RADA)

**Dr. Oswald Simon**

- Observer, Technical Advisory Committee, CARICOM Drug Testing Laboratory

**Dr. Paul Singh**

- Member, Caribbean Poison Information Network Management Committee

**Dr. Lauriann Young- Martin**

- Council Member, Holy Cross Community

**Dr. Andrew Wheatley**

- Director, Jamaica Anti-Doping Commission
- Member, Jamaica National Commission for UNESCO
- Chair, Subcommittee on Science and Education, National Anti-Doping Commission
- Vice-president, Association of Local Government Authorities of Jamaica (ALGAJ)
- Chair, Education and outreach Committee (JADCO)
- Chairman, St. Catherine Parish Council

## **Students Registration In programmes**

### **BB Med Sci.**

Year 1 = 40

Year 2 = 22

Year 3 = 19

### **MB BS**

Year 1 = 190

Year 2 = 170

Year 3 = 163

### **Physical Therapy**

Year 1 = 38

Year 2 = 41

Year 3 = 13

## **Allied Health Students**

Year 1 = 54

## **BSc Biochemistry/Biotechnology/Molecular Biology**

Year 1 = 310

Year 2 = 101

Year 3 = 68

## **Postgraduate Degrees Awarded**

Natala Burnett – PhD Molecular Biology

Curtis Green – PhD Biochemistry

Damian Cohall – PhD Pharmacology

## **Postgraduate Scholarships Awarded**

### *UWT Postgraduate Scholarship*

Fallon Lutchmansingh – MPhil Biochemistry

Kesi Brown – MPhil Biochemistry

## **UWI 60th Anniversary Scholarship**

Tricishanna Henry – MPhil Pharmacology