

## CURRICULUM VITAE

**TEMPLE, Victor Jonathan, M.Sc., Ph.D., C. Biol., MRSB. (M. I. Biol.), A.S.N**

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Web Site: [www.victorjtemple.com](http://www.victorjtemple.com).

### **Academic Qualifications:**

Ph.D. (Biochemistry/ Enzymology): Moscow State University, Moscow

M. Sc. (Biochemistry): Moscow State University, Moscow

### **Areas of Research:**

- ❑ Micronutrients (Vitamins and Trace elements), Enzymology, Nutrition, Toxicology, & Molecular Genetics (Genetic Fingerprinting); my research focus in the new decade is on food security in resource limited countries, with particular emphasis on maternal and child nutrition. I am particularly interested in issues related to the accessibility, availability, affordability and stability of adequate supply of micronutrients and macronutrients to infants and mothers.
- ❑ Expert in the use of laboratory analytical techniques such as: PCR, HPLC, EIA, AAS, ICP-MS. Successfully completed several high quality research funded projects in Micronutrients, Endocrinology, Drug Discovery and Toxicology. Taught Biochemistry, Clinical Biochemistry, Molecular Biology, and Aspects of Nutrition and also supervised undergraduate and postgraduate research projects in universities in Africa, Europe and the South Pacific. (Details in: [www.victorjtemple.com](http://www.victorjtemple.com)).
- ❑ Expert in the didactic and problem based learning curricula. Always read to grasp the opportunity to share my passion for learning and scientific research and to work towards ensuring optimal success.

### **Scholarships & Fellowships:**

- ❑ UNESCO Fellowship Awards to the International Centre for Theoretical Physics (ICTP): College of Neuro-Chemistry, Trieste, Italy: 1<sup>st</sup> October 1990 to 30<sup>th</sup> November 1990.
- ❑ UNESCO Fellowship Awards to the International Centre for Theoretical Physics (ICTP): College of Neuro-Chemistry, Trieste, Italy: 15<sup>th</sup> May 1995 to 10<sup>th</sup> June 1995.

### **Conferences, Workshops and Meetings attended:**

- ❑ Team Leader Scientific Committee: Research Science and Technology, joint UPNG Science Conference, UPNG Waigani, 17<sup>th</sup> to 21<sup>st</sup> November 2014
- ❑ Resource Person: Research Science and Technology, joint UPNG Science Conference, UPNG Waigani, 17<sup>th</sup> to 21<sup>st</sup> November 2014
- ❑ Resource person: International Council for Control of Iodine Deficiency Disorders (ICCIDD) Global Network Regional meeting, Port Moresby, 15<sup>th</sup> to 18<sup>th</sup> August 2014.
- ❑ Member: Technical Advisory Group (TAG): Review of the National Nutrition Policy and development of the Nutrition Strategic Action Plan: March 2014 to date:
- ❑ Resource person: Micronutrient Forum, Addis Ababa Ethiopia 1<sup>st</sup> to 6<sup>th</sup> June 2014, sponsored by the Micronutrient Initiative, Ottawa, Ontario Canada.
- ❑ Resource Person: Workshop on review of PNG National Nutrition Policy, Lamana Hotel, Port Moresby, 22<sup>nd</sup> to 24<sup>th</sup> August 2013.
- ❑ Chairman organizing committee and resource person: International Council for Control of Iodine Deficiency Disorders (ICCIDD) Global Network regional meeting, NDOH, 5<sup>th</sup> to 7<sup>th</sup> August 2013.
- ❑ Special guest and Resource person: The 6<sup>th</sup> Annual Biomedical Research Symposium, sponsored by the Health and Biomedical Research Association (HBIOMED-SL), 8<sup>th</sup> to 10<sup>th</sup> July 2013, Freetown, Sierra Leone.
- ❑ Resource Person: 48<sup>th</sup> Annual PNG Medical Symposium, Port Moresby, Gateway Hotel 2<sup>nd</sup> to 7<sup>th</sup> September 2012.
- ❑ Chairman organizing committee and Resource Person: Drug Monitoring and Research Workshop, SMHS UPNG, August 2011.

- ❑ Member task force: Training in Human Nutrition and Dietetics: National Health Service Standard Division NDOH: April 2010
- ❑ Participant in the UPNG Research Agenda Workshop: Port Moresby April 2010.
- ❑ Resource Person: Train the Trainers Workshop for Salt Iodization and Monitoring: Sponsored by UNICEF & NDOH: July 2010, NDOH
- ❑ Resource Person: PNG Medical Symposium, Port Moresby 3<sup>rd</sup> to 6<sup>th</sup> Sept 2009
- ❑ Resource person: Iodised salt monitoring workshop: Train the Trainers: Training for quarantine officers and food inspectors. Sponsored by UNICEF and NDOH: 1<sup>st</sup> to 5<sup>th</sup> June 2009, Madang Resort Hotel, Madang Province, PNG.
- ❑ Member organizing committee and Resource person: University of Papua New Guinea Science Conference, "Science Innovations for Change". 12 – 14<sup>th</sup> November 2008, Gateway Hotel, Port Moresby, Papua New Guinea.
- ❑ Resource Person: National Research Agenda for HIV and AIDS: National AIDS Council Secretariat Papua New Guinea. 23<sup>rd</sup> September 2008, Crown Plaza Hotel, Port Moresby Papua New Guinea.
- ❑ Resource person: Technical meeting on Proposed Diethylcarbamazine (DEC) Fortified Salt as a Strategy for the Control and Elimination of Lymphatic Filariasis (LF) in PNG. Sponsored by NDOH: 13<sup>th</sup> Feb 2008, NDOH Conference Room, Aopi Centre.
- ❑ Participant: Videoconference and Workshop: "Nutrition in PNG – Present situation, challenges and solutions". Organized by: PNG Association of Public Health, in association with NDOH, Global Development Learning Network (GDLN, World Bank), UNICEF, CDC USA, AusAID. 7<sup>th</sup> September 2007, GDLN, World Bank Conference centre, Deloitte Tower, Port Moresby.
- ❑ Resource person: National Research Agenda Workshop. Sponsored by National AIDS Council Secretariat (NACS). 2<sup>nd</sup> to 4<sup>th</sup> Oct 2007; Holiday Inn, Port Moresby.
- ❑ Resource person: Consultation workshop on HIV Food and Nutrition in PNG. Sponsored by NDOH and Albion Street Centre Sydney Australia: 26<sup>th</sup> to 28<sup>th</sup> Nov 2007; WHO Conference Room, NDOH PSA House Port Moresby.
- ❑ Resource person: Iodised salt monitoring workshop: training for quarantine officers and food inspectors. Sponsored by NDOH and UNICEF: 22<sup>nd</sup> to 26<sup>th</sup> May 2006, Madang Resort Hotel, Madang Province, PNG.
- ❑ Resource person and Scientific Coordinator: Public Health Symposium: The National Micronutrient Survey 2005 (NMS 2005): Draft Report of NMS 2005. Sponsored by NDOH, UNICEF & Centres for Disease Control and Prevention (CDC) Atlanta, Georgia USA. 11<sup>th</sup> to 13<sup>th</sup> October 2006. Lamana Hotel, NCD, PNG.
- ❑ Resource person: National Micronutrient Survey Stakeholders workshop: Preliminary assessment of report. Sponsored by NDOH and UNICEF: 19<sup>th</sup> to 22<sup>nd</sup> June 2006. Lamana Hotel, NCD, PNG.
- ❑ Workshop coordinator and Co-resource person: International Training Workshop for the PNG National Micronutrient Survey (NMS 2005), Sponsored by UNICEF and PNG National Department of Health in Collaboration with Centers for Disease Control and Prevention (CDC), Atlanta Georgia USA. From 9<sup>th</sup> May to 13<sup>th</sup> May 2005, School of Medicine and Health Sciences (SMHS), University of Papua New Guinea, Port Moresby PNG.
- ❑ Resource person: PNG National Department of Health, UNICEF PNG Health, Nutrition and Early Childhood Development Mid-Term Review Workshop, 25<sup>th</sup> May 2005, Crown Plaza, Port Moresby
- ❑ Resource person: Workshop on Policy on Traditional Medicine Practices in PNG, NDOH. Workers Mutual House Conf Room, Port Moresby, 28 – 30 July 2004.
- ❑ Medical Scientist representative of the PNG Department of Health team to the "Regional Training Workshop on Maternal and Child Nutrition Surveys" conducted by UNICEF in collaboration with Institute of Nutrition, Mahidol University Thailand and US Centers for Disease Control and Prevention. Bangkok, Thailand, from 2<sup>nd</sup> to 13<sup>th</sup> March 2004
- ❑ Resource person: Workshop on Conservation and Sustainable Use of Biodiversity in PNG. Sponsored by University of Papua New Guinea and University of Utah USA, 12 – 28 June 2004. Gateway Hotel Port Moresby PNG.
- ❑ University of Papua New Guinea Teaching, Learning & In-House Training Centre: Power Point Presentations: July 2003

- University of Papua New Guinea Teaching, Learning & In-House Training Centre: Managing a Teaching Portfolio: July 2003

**Membership of Professional Organizations:**

- Member: Biomarkers Reflecting Inflammation and Nutrition Determinants of Anemia (BRINDA): Collaboration between CDC USA/GAIN/NICHD and country partners: Jan 2012 to date.
- Member International Council for Control of Iodine Deficiency Disorders (ICCIDD), Global Network, 2005 to date
- Member: Asia Pacific Association of Medical Journal Editors (APAME)
- Registered Member, American Society for Nutrition (ASN)
- Member, Institute of Biology (UK)
- Member, Medical Association of Papua New Guinea.
- Member, Biochemical Society of Nigeria
- Member, Science Association of Nigeria
- Member, Nigerian Institute of Biology
- Member, National Association of Medical Scientists in Nigeria
- Member, Health and Nutrition Resource Group, JUTH, Plateau State, Nigeria.
- Member, Health and Biomedical Research Association of Sierra Leone (HBIOMED-SL)

**WORKING AND TEACHING EXPERIENCE:**

**December 1998 – September 2008: Senior Lecturer; November 2008 to Date: Associate Professor:**

Discipline of Biochemistry and Molecular Biology, Division of Basic Medical Sciences (BMS), School of Medicine and Health Sciences (SMHS), University of Papua New Guinea (UPNG)

- Teach; conduct seminars and practical classes in Biochemistry, Nutrition and Clinical Chemistry to Medical students. In close cooperation with the University of Newcastle in Australia participate in developing and implementing the Problem Based Learning (PBL) Curriculum for Medical students in SMHS UPNG.
- Facilitator for PBL tutorial groups from January 2000 – to date.
- Teach Biochemistry and Molecular Biology to Dentistry and Health Sciences students (Pharmacy & Medical Laboratory Sciences), using traditional curriculum.
- Teach Biochemistry and Clinical Chemistry to Postgraduate Medical Students in the Master of Medicine (M. Med.) Part I program in SMHS UPNG, using the traditional curriculum.
- As Head of the Discipline of Biochemistry & Molecular Biology in the 1999 and 2000 academic sessions, I played a major role in developing and coordinating all teaching programs in Biochemistry and Clinical Chemistry.
- Head, Discipline of Medical Laboratory Technology in the Division of Medical & Laboratory Sciences, SMHS UPNG: Jan 2001 – Dec 2001. Coordinated all teaching and research activities.
- Head, Discipline of Biochemistry and Molecular Biology in the Division of Basic Medical Sciences, SMHS UPNG: January 2002 – to date.
- Seminar Coordinator, Div of Medical & Lab Sci., SMHS UPNG: 2001 – 2002.
- Chairman, 2<sup>nd</sup> Year (MBBS) PBL Academic Committee, January 2002 – date.
- Chairman, Division of Basic Medical Sciences, SMHS UPNG: Jan 2003 – to date.
- Member, SMHS Postgraduate committee January 2003 – to date
- SMHS Representative in the UPNG Curriculum Transition Task Force: March 2003 to 2006. Functions of the task force include coordinating all aspects of the transition of UPNG curriculum from Trimester system to Semester system.
- SMHS Representative in the UPNG Vice Chancellor's Committee on Teaching Learning and in-house Training Matters: August 2003 to 2006
- SMHS Representative in the UPNG Senate Sub-committee on "The Policy of Course Variation and Overload": August 2002 to 2006.
- Representative of the SMHS in the UPNG committee on Plagiarism and Staff disciplinary matters: November 2003 to 2006.

- ❑ Representative SMHS in the UPNG committee on student assessment policy: 2004 to date
- ❑ UPNG counter-part in Collaboration with Curtin University of Technology Western Australia in the writing of the Workbooks for the Pharmaceutical Biology Biochemistry course for the Distance Education Program – Papua New Guinea Pharmaceutical Upgrade Project for the Diploma in Pharmaceutical Technical Services (by conversion of the Certificate in Pharmacy Practice).
- ❑ Acting Dean SMHS UPNG: 5<sup>th</sup> September to 15<sup>th</sup> September 2008, 3<sup>rd</sup> to 8<sup>th</sup> Sept 2013,
- ❑ Member, UPNG Examination Board (UEB): Duties include moderation of examination questions and final grades of all under graduate courses in the University of PNG: Oct 2007 to June 2012.
- ❑ Chairman, UPNG Examination Board (UEB): The UEB is the formal body established by the UPNG Council and Senate to oversee the assessment processes and results; it certifies the final grades for all students: July 2012 to March 2013.
- ❑ Member UPNG UEB: April 2013 to date

#### **Spring & Winter sessions 1998:**

Docent Department of Medical Biochemistry, Medical Academy of Latvia, Riga, Latvia

- ❑ Taught Biochemistry and Bio-organic chemistry to English-speaking international students
- ❑ Resign my appointment because of the extremely cold winter climate in Riga

#### **April - July 1997:**

Associate Professor and Head of Biochemistry, Faculty of Basic Medical Sciences College of Medicine & Allied Health Sciences, University of Sierra Leone, Freetown, Sierra Leone

- ❑ Coordinated academic programs in Biochemistry and Clinical Chemistry
- ❑ Represented the Faculty in the College Council
- ❑ Taught major courses in Biochemistry and Clinical Chemistry

**Jan 1982 to Dec 1985:** Lecturer; **Jan 1986 to Dec 1992:** Senior Lecturer;

**Jan 1993 to Dec 1996:** Associate Professor,

Department of Biochemistry, Faculty of Medical Sciences, University of Jos, Jos, Plateau State, Nigeria

- ❑ Lectures, tutorials and experimental designs for 200-level and 300-level Medical Students
- ❑ Lectures, tutorials and supervision of research projects for Postgraduate Students (M. Sc., M. Phil. and Ph.D. programs in Biochemistry)
- ❑ Coordinated programs and taught in the Laboratory Technological Training Scheme, Faculty of Natural Sciences, University of Jos. Duties included Biochemistry lectures, tutorials and supervision of research projects for the award of the Higher National Diploma (HND) and National Institute of Science Technology (NIST) Professional Certificates in Nutrition and Biochemistry
- ❑ Taught in the Associate Institute of Medical Laboratory Technology (AIMLT) program, Federal School of Medical Laboratory Technology, Jos University Teaching Hospital (JUTH)
- ❑ Supervised three Ph. D, eight M. Sc., eight HND and six NIST Professional Certificate projects
- ❑ Conducted and coordinated several research (please refer to the list of publications for details)

#### **Oct 1980 to Dec 1981:**

- ❑ Biochemist Connaught Hospital Lab: The Central Government Hospital in Freetown, Sierra Leone,
- ❑ Part-Time Lecturer and Demonstrator in Natural Product Chemistry Dept. of Organic Chemistry, Fourah Bay College University of Sierra Leone

#### **OTHER ACADEMIC ACTIVITIES AND ADMINISTRATIVE EXPERIENCE:**

- ❑ Coordinator of the AIMLT part III program in the Federal School of Medical Laboratory Technology, JUTH, Jos from 1986 to 1990
- ❑ Chairman, Board of Examiners for the final year HND examination in the Faculty of Natural Sciences, University of Jos from 1984 to 1990.
- ❑ Chief examination officer for the part 1 MBBS professional examination in the Department of Biochemistry, University of Jos from 1986 to 1990.
- ❑ Departmental examination officer for the M. Sc. and Ph.D. examinations in the Dept of Biochemistry, University of Jos, from 1988 to 1995.

- ❑ Internal examiner for 3 Ph.D. Theses in the Dept. of Biochem Uni of Jos, Plateau State, Nigeria
- ❑ External examiner to the Department of Biochemistry of (a) Bayero University, Kano for the 1990/91; the 1991/92; the 1992/93 and the 1994/95 academic sessions. (b) Amadu Bello University, Zaria for the 1994/95 academic sessions (for the M. Sc. degree in Biochemistry).
- ❑ Member of Council: Biochemical Society of Nigeria from 1988 to 1990.
- ❑ Faculty of Med Sci. Rep. in the Uni of Jos Senate Time-Table Committee from 1988 to 1995.
- ❑ Chairman Faculty of Med Sci. Research and Conf Grant Committee Uni of Jos from 1990 to 1995.
- ❑ Faculty of Med Sciences Representative in Senate Curriculum Committee, Uni of Jos 1990 to 1995.
- ❑ Sub-Dean Pre-clinical Depart, Faculty of Med. Sci., Uni of Jos, 1992 to 1995.
- ❑ Chairman Health and Nutrition Resource Group JUTH, Jos 1990 to 1996.
- ❑ Chief Editor of Health and Nutrition Resource Bulletin, 1991 to 1996.
- ❑ Managing Editor: West African J. of Biological Sci (WAJBS), 1993 to 1996.
- ❑ Head, Depart of Biochemistry, Faculty of Basic Medical Sciences, College of Medicine and Allied Health Sciences, University of Sierra Leone, May 1997.
- ❑ Head of Biochemistry Division, Dept of Basic Medical Sciences, University of Papua New Guinea (UPNG) Papua New Guinea 1999 to 2000.
- ❑ Departmental representative in the Faculty of Medicine and Health Sciences standing committee, UPNG, 1999 to 2000.
- ❑ Member, Editorial Board, Biomedical Science Letters, 2001 to date.
- ❑ Leader, Discipline of Medical Laboratory Technology in the Division of Medical and Laboratory Sciences, UPNG, from January 2001 to January 2002.
- ❑ Seminar coordinator, Division of Medical and Lab Sci, UPNG, 2001 to 2002.
- ❑ School of Medicine and Health Sciences (SMHS) Representative in the UPNG "Curriculum Review and Three Term Review Committee" 2002 to 2006.
- ❑ Leader, Discipline of Biochemistry and Molecular Biology in the Division of Basic Medical Sciences, UPNG from January 2002 to Date.
- ❑ Chairman, 2<sup>nd</sup> yr MBBS, PBL Academic cmtte SMHS UPNG Jan 2002 to date.
- ❑ Member, UPNG, SMHS Undergraduate Med Education Committee in SMHS 2002 to date
- ❑ Head, Division of Basic Medical Sciences, SMHS, UPNG, Jan 2003 – to date.
- ❑ Member, SMHS Ethical and Research Grant Committee: 2003 to date
- ❑ SMHS Representative in the UPNG Curriculum Transition Task Force: March 2003 to 2006. Functions of the task force include coordinating all aspects of the transition of UPNG curriculum from Trimester system to Semester system.
- ❑ SMHS Representative in the UPNG Vice Chancellor's Committee on Teaching Learning and in-house Training Matters: August 2003 to 2006
- ❑ SMHS Representative in the UPNG Senate Sub-committee on The Policy of Course Variation and Overload: August 2002 to 2006.
- ❑ Representative SMHS in the UPNG committee on Plagiarism and Staff disciplinary matters, November 2003 to 2006
- ❑ Representative UPNG committee on student assessment policy: 2004 – 2006.
- ❑ Coordinator & Principal researcher: Iodine Deficiency Disorders (IDD) Research Project, SMHS, UPNG 2002 to date.
- ❑ Coordinator Micronutrient Research Group, SMHS, UPNG Sept 2003 to date
- ❑ PNG counter-part in the writing of the Workbooks for the Pharmaceutical Biology Biochemistry course for the Distance Education Program – PNG Pharmaceutical Upgrade Project for the Diploma in Pharmaceutical Technical Services (by conversion of the Certificate in Pharmacy Practice).
- ❑ Elected member of UPNG Centre for Teaching, Learning & In-House Training Advisory Committee January 2004 to 2006.
- ❑ Elected member of UPNG Teaching Awards Committee: March 2004 to 2006.
- ❑ Member, PNG National Nutrition Survey Taskforce: - Consultant on Laboratory matters in collaboration with UNICEF, WHO and CDC USA : 2004 to date
- ❑ Appointed: External Evaluator in Drug Registration, PNG NDOH: 2005 to date.

- ❑ Chairman, PNG Food Fortification Technical Committee: A sub-committee of the PNG Food Sanitation Council, NDOH: 2007 to date.
- ❑ Member, PNG Food Fortification Inspection & Monitoring Comtt. 2007 to date.
- ❑ Member, PNG National Technical Working Group (NTWG) on the National Programme to Eliminate Lymphatic Filariasis: 2007 to date
- ❑ SMHS Representative in UPNG Enrichment Program Review Working Group: 2007 to date.
- ❑ Member, University of PNG Governing Council: 2007 to date.
- ❑ Senior researcher: DNA Data base for Forensic analysis: Molecular Genetics laboratory, Division of Basic Medical Sciences, SMHS UPNG.
- ❑ Acting Dean SMHS: 5<sup>th</sup> to 15<sup>th</sup> Sept 2008; 29<sup>th</sup> Aug to 6<sup>th</sup> Sept 2010, 3<sup>rd</sup> to 8<sup>th</sup> Sept 2013,
- ❑ Resource person: Consultation workshop on HIV Food and Nutrition in PNG. Sponsored by NDOH and Albion Street Centre Sydney Australia: 26<sup>th</sup> to 28<sup>th</sup> Nov 2007. WHO Conference Room, NDOH PSA House Port Moresby PNG.
- ❑ Member task force: Training in Human Nutrition and Dietetics: National Health Service Standard Division NDOH: 2010
- ❑ Co-ordinator of research projects on disease trends in PNG, with emphasis on retrospective assessment of laboratory data obtained in the Clinical Biochemistry unit in PMGH: Metabolic disorders (diabetes mellitus, gestational diabetes, thyroid dysfunction, anaemia, oxidative stress, and hypertension) with special interest in diagnosis and clinical biochemical assessment at the subclinical stages.
- ❑ Co-ordinator of research group on: Food Insecurity and its implication for maternal and child health and people living with HIV/AIDS in PNG: Projects involve data collection and advocacy.
- ❑ Member, Editorial Board, "West African Journal of Biological Sciences", (Reviewer of papers on Enzymology and Micronutrients): 2000 to date.
- ❑ External Reviewer: PNG J. Agriculture, Forestry and Fisheries, 2002 to date.
- ❑ International Reviewer: "Journal Thyroid" On-Line reviewer: 2009 to date.
- ❑ International Reviewer: "African Journal of Food, Agriculture Nutrition and Development (AJFAND)": On-Line reviewer: 2009 to date.
- ❑ Reviewer: "PNG Medical Journal": 2009 to date.
- ❑ International Reviewer: "Journal Maternal & Child Health": 2010 to date.
- ❑ International Reviewer: Journal Maternal & Child Nutrition: ScholarOne 2012
- ❑ Technical Reviewer AJFAND: Appointed December 2012.
- ❑ Member, National Nutrition Technical Advisory Group (TAG): Review of the 1995 PNG National Nutrition Policy,
- ❑ ICCIDD Global Network Country Representative: Papua New Guinea: 2013;
- ❑ ICCIDD Global Network Country Representative: Solomon Islands: 2013;
- ❑ Resource Person: Research Science and Technology, joint UPNG Science Conference, UPNG Waigani, 17<sup>th</sup> to 21<sup>st</sup> November 2014
- ❑ Resource person: International Council for Control of Iodine Deficiency Disorders (ICCIDD) Global Network Regional meeting, Port Moresby, 15<sup>th</sup> to 18<sup>th</sup> August 2014.
- ❑ Member Technical Advisory Group (TAG): Review of the National Nutrition Policy and development of the Nutrition Strategic Action Plan: March 2014 to date:
- ❑ Resource person: Micronutrient Forum, Addis Ababa Ethiopia 1<sup>st</sup> to 6<sup>th</sup> June 2014, sponsored by the Micronutrient Initiative, Ottawa, Ontario Canada.

#### **THESIS AND DISSERTATION:**

- ❑ TEMPLE, V. J. Extraction and Purification of Mitochondrial Creatine Phosphotransferase from Beef Heart Mitochondria: M. Sc. Thesis, 1977 Department of Biochemistry, Biology Faculty, Moscow State University, Moscow. Supervisor: Dr. L. V. Belousova.
- ❑ TEMPLE, V. J. Physico-Chemical and Functional Characteristics of Mitochondrial Creatine Phosphotransferase from Beef Heart Mitochondria: Ph.D. dissertation, 1980, Department of

Biochemistry, Moscow State University, Moscow. Chief Supervisor: Academician Severin. Immediate Supervisors: Dr. L. V. Belousova and Dr. T. Yu. Lipskaya.

#### **RESEARCH PROJECTS COMPLETED:**

1. Extraction and Purification of Beef Heart Mitochondrial Creatine Phosphotransferase (M. Sc. Research Project).
2. Physico-Chemical and Functional Characteristics of Beef Heart Mitochondrial Creatine Phosphotransferase (Ph.D. Research Project).
3. Protein profile obtained after polyacrylamide gel electrophoresis of needle biopsy specimens from the breast of breast cancer patients before, during and after Tamoxefen therapy. (A joint project with the Department of Clinical Chemical Pathology, Uni Jos, Jos, Nigeria), in the summer of 1982. The results of this research work were presented at an International conference in Stockholm, Sweden by Professor (Mrs.) W. Lancaster
4. Chromatographic separation of a mixture of ATP, ADP, AMP, creatine phosphate, inorganic phosphate and glucose-6-phosphate
5. The nutritional value of Tiger Nut (*Cyperus esculentus*)
6. Evaluation of the Nutritive Value of Berries of *Lantana camara*
7. Physical parameters and nutritive value of fruits of *Gmelina arborea*
8. Total cholesterol and HDL – cholesterol levels in plasma of women in the Jos, Plateau State,
9. Total cholesterol and HDL-cholesterol levels in African Women using oral contraceptives (A joint project with the Department of Obstetrics and Gynaecology. University of Jos).
10. Serum “Globulin Anormalement Precipitables” (GAP) in Nigerian users of Progestogen-only pill (A joint project with the Department of O & G, University of Jos, Jos, Nigeria).
11. Nutritional value of breads sold in and around Jos.
12. Estimation of vitamin C in local foodstuffs in Jos, Plateau State.
13. Estimation of some biochemical parameters in the serum of some apparently healthy infants and adults in Jos, Plateau State
14. Proximate composition of some ready-to-eat local foods in Plateau State, Nigeria.
15. Chemical composition of Kwashpap and its components (A joint project with the Dietetics and Rehabilitation Unit, JUTH, Jos.)
16. The nutritive value and some physical parameters of Bambara groundnut
17. Serum cholesterol and beta-carotene levels in childhood neoplastic disorders (A joint project with the Department of Pediatrics.)
18. Proximate composition of locally prepared multi-mixes used as alternatives to commercial infant foods in Jos, Plateau State.
19. The levels of some macro- and micro- elements in the serum and diets of pregnant and lactating women in Plateau State.
20. Heavy metal toxicity: Uptake and bioaccumulation of some trace elements and cations in potato (*Solanum tuberosum*) and tomato (*Lycopersicon esculentum*) plants.
21. Serum vitamin A, total carotenoids, total cholesterol and HDL-cholesterol levels in preschool-aged children in Plateau State
22. The level of some anti-nutritional factors in Nigerian foodstuffs.
23. The chemical composition of seeds of two varieties of *Ricinus communis*
24. Tissue distribution and physico-chemical properties of the enzyme, Rhodanese in the fruit bat and domestic fowl
25. Chemical analysis of commonly consumed soybean based diets in Jos, Plateau State.
26. Formulation and nutritional evaluation of some complementary foods used in the Dietetics and Rehabilitation Unit in JUTH, Jos.
27. Control of hypertension and diabetes using a medicinal herb (African mistletoe leaf extract).
28. Assessment of urinary iodine level in children, 6 – 12 years old, in Hella region (Tari and Koroba districts) Southern Highland Province PNG.
29. Estimation of the per capita consumption of salt, quantitative assessment of iodine content in household and retail salt in Hella region, Southern Highland Province, PNG.

30. Using Anthropometric parameters to assess the nutritional status of children, 6 – 12 years old, in Hella region, SHP, PNG.
31. Quantitative (Iodometric titration) and Semi-quantitative (Spot-testing kits) assessment of iodine content in salt and the estimation of daily per capita consumption of salt in selected areas in NCD. {The areas are Five-Mile Settlement – Urban area; Papa village (Motu-Koitabu district) – Rural Coastal area; Tauruba village (Riga district) – Rural Hilly area; Six Mile Settlement – Urban area and Kaugere Settlement – Urban area}.
32. Assessment of Urinary Iodine levels in non-pregnant, pregnant and lactating women in National Capital District PNG.
33. Assessment of Iodine status of neonates and lactating women in NCD
34. Retrospective assessment of data for thyroid function tests on patients seen in Port Moresby General Hospital (PMGH) in 2004 and 2005
35. Retrospective assessment of data obtained for liver function tests on patients over 10 years of age in PMGH from February to April 2005.
36. Retrospective assessment of neonatal jaundice PMGH 2005.
37. Dietary intake assessment of Persons Living with HIV/AIDS attending Heduru clinic in PMGH: A 24-Hour recall study.
38. Prevalence of self-medication among students in UPNG during 2005 academic year.
39. Thiamine Status of Students Attending Boarding Schools in the National Capital District and Central Province, Papua New Guinea (Funded by WHO, NDOH)
40. Assessing the Thiamin (Vitamin B-1) status in children in selected boarding schools in Central Province, PNG. A joint project with the NDOH and Clinical Sciences.
41. Assessment of Iodine Nutritional Status of School Children (6–12yrs) Honiara, Solomon Islands
42. Using the Levy Jennings Chart to Assess the Quality Control Results Obtained in April, June and July (2007) in the Biochemistry Laboratory in Port Moresby General Hospital
43. Assessment of Validity of Some Blood Parameters in Samples Submitted for Routine Analysis to Clinical Biochemistry Laboratory in Port Moresby General Hospital: A Prospective Study in 2007
44. Retrospective Assessment of Data for Metabolic and Respiratory Acid-Base Disorders in Patients Attending PMGH from 2005 – 2006
45. Retrospective Assessment of Data for Lipid Profile Tests of Patients Attending Port Moresby General Hospital in 2006
46. Retrospective Study of Data for Cardiac Markers of Patients Attending Nonga Base Hospital (2004 – 2006) East New Britain Province
47. Retrospective Study of Data for Serum Amylase Activities in Patients with Acute Pancreatitis Treated at PMGH (2005 – 2006)
48. Assessment of Vitamin A (Plasma Retinol) status of children, age 6 to 59 months attending paediatric clinic in PMGH: Joint project with Department of Child Health PMGH {Funded by Office of Higher Education Research and Technology PNG}
49. Assessment of Vitamin A (Plasma Retinol) status of non-pregnant women resident in NCD, PNG {Funded by: Office of Higher Education Research and Technology PNG}
50. Assessment of the nutritional status (using Anthro 2005) of children, age 6 to 59months resident in NCD, PNG {Funded by: OHE, WHO and UNICEF}
51. Using a modified Morisky Scale to assess the Adherence to Highly Active Antiretroviral Therapy (HAART) by HIV positive patients attending Heduru Clinic in PMGH: How significant is the role of Nutrition?
52. Prevalence of Microalbuminuria in Diabetic and Hypertensive Patients Attending Clinics in Port Moresby General Hospital. Joint project with Department of Medicine PMGH.
53. Iodine nutritional status of School-age Children in Menyama District, Morobe Province Papua New Guinea (Funded by Office of Higher Education, PNG)
54. Assessment of Thyroid Function in Cord Blood (Funded by Office of Higher Education)
55. Pseudo-cholinesterase activity in apparently healthy individuals in the NCD, PNG.
56. Assessment of the Dibucaine Numbers of Pseudo-cholinesterase in health individuals in National Capital District, Papua New Guinea



57. Using Glycosylated Haemoglobin (HbA1c) to assess Glycemic control in diabetic patients in Port Moresby General Hospital. (Funded by Office of Higher Education)
58. Retrospective assessment of the prevalence of Neonatal jaundice in Port Moresby General Hospital: From January 2007 to December 2008
59. Prevalence of Neonatal jaundice in Port Moresby General Hospital (Funded by SMHS)
60. Using HPLC to assess the quality of Artemisinin medicines sold in NCD (Funded by SMHS)
61. Monitoring the quality of iodized salt sold in retail shops in NCD: Iodine Research Project.
62. Prevalence of atypical Pseudocholinesterase among individuals in NCD.
63. Assessment of thyroid function and iodine nutritional status of pregnant women attending antenatal clinic in PMGH" (Funded by Office of Higher Education, Research, Science & Technology PNG).
64. Prevalence of Diabetes Mellitus and Glycemic Control among diabetic patients at Kavieng General Hospitals during 2009: A Retrospective study
65. Identification of Specific Short Tandem Repeats (STR) in DNA of selected individuals in NCD.
66. Gene bank project phase 1: Genetic fingerprinting using STR.
67. Assessment of academic stress on cortisol level in saliva of students in UPNG.
68. Assessment of Aflatoxin B-1 in foodstuffs in PNG;
69. Assessment of Aflatoxin M-1 in breast milk of lactating mothers in PNG.
70. Monitoring the quality of Antibiotics and Anti-malaria drugs sold in PNG.
71. Iodine nutritional status among Children (Age 6–12 yrs) in Eastern Highland Province.
72. Assessment of Helicobacter Pylori in Saliva of Dental Patients in PMGH.
73. Assessment of Hepatitis C virus (HCV) IgM in the blood of selected patients in PMGH.
74. Assessment of the impact of universal salt iodization (USI) strategy in Lufa District EHP.
75. Status of iodine nutrition among children (6 – 12 yrs) in Numbo Local Level Government-Kubalia district, East Sepik Province (ESP), PNG
76. Using Enzyme-Immuno-Assay for the assessment of Hepatitis C virus (HCV) IgM in the blood of patients with liver disease in Port Moresby General Hospital.
77. Assessment of zinc status in children age 12 to 59 months in the NCD, PNG.
78. Assessment of zinc status of Women in NCD, PNG.
79. Using Cord Blood to assess Thyroid Status in Neonates in Manus Province and NCD (Funded by OHE research grant)
80. Assessment of Thyroid Status among Non-Pregnant Women in Manus Province (Project funded by OHE research grant)
81. Assessment of Thyroid function among Students in School of Medicine and Health Sciences, University of Papua New Guinea
82. Assessment of iodine nutrition status among children (age 6-12 years) in Lele Madih Bupi Chupeu LLG, Lorengau dsitrect, Manus Provivnce, PNG (Project funded by OHE research grant)
83. Assessment of Aflatoxin M1 levels in Breast Milk of Lactating Mothers in Hagen Central District of Western Highlands Province and National Capital District
84. Monitoring Iodine Content in Brands of Salt Sold in Manus, Wewak and NCD
85. Assessment of Aflatoxin M1 levels in Breast Milk of Lactating Mothers in Hagen Central District WHP and National Capital District (Project funded by OHE research grant)
86. Monitoring Iodine Content in Brands of Salt Sold in Manus, Wewak and NCD
87. Assessment of iodine nutrition status among children (age 6 – 12 years) in Kieta District, Bougainville. (Project funded by OHE research grant)
88. Assessment of Aflatoxin M1 levels in breast milk of lactating mothers in Goroka and Kainantu District of Eastern Highland Province, PNG. (Project funded by OHE research grant)
89. Modified Standard Operating Procedures (SOP) for Qualitative Tests to Detect Iron in Fortified Rice Sold in Port Moresby, PNG: Joint project with Food Fortification Initiative Thailand, Project supervised by VJ Temple.
90. Assessment of Nutritional status among non-pregnant women and school-age children in Kotidanga LLG Kerema District Gulf Province, PNG: Joint project with North Tamborine QLD Australia (PNG Corporate Mission): Project supervised by VJ Temple

91. Assays of Urinary Iodine in urine samples and Iodine content in Salt samples collected in the Solomon Islands during the 2015 “WHO STEPwise approach to Surveillance of Chronic and Non-communicable Disease Risk Factors survey”: World Health Organization (WHO) approved and funded project. Project supervised by VJ Temple.
92. Assays of Sodium and Creatinine in urine samples collected in the Solomon Islands during the 2015 “WHO STEPwise approach to Surveillance of Chronic and Non-communicable Disease Risk Factors survey”: World Health Organization (WHO) approved and funded project. Project supervised by VJ Temple.
93. Assessment of Aflatoxin M1 levels in breast milk of lactating mothers in the Rabaul District, East New Britain Province, PNG. (Project funded by OHE research grant)
94. Using Thyroid Function Tests in Cord Blood to Assess the Thyroid Status of Neonates Delivered in Mount Hagen Provincial Hospital, Western Highlands Province, PNG. Joint project with O&G Dept Mount Hagen Province Hospital WHP: Project supervised by VJ Temple (Project funded by OHE research grant)
95. Status of iodine nutrition among pregnant women in Jiwaka Province PNG. Project supervised by VJ Temple (Project funded by OHE research grant)

#### RESEARCH IN PROGRESS:

- ❑ “Situation analysis of imported salt and rice into PNG: number and quantity of imports and extent of fortification”: Joint project with Iodine Global Network, Food Fortification Initiative Thailand, UNICEF, NDOH PNG, PNG Customs and NAQIA: Project supervised by VJ Temple (Project funded by Iodine Global Network, FFI and UNICEF)
- ❑ Status of iodine nutrition among school-age children in Simbu Province PNG. Project supervised by VJ Temple: Joint project with UNICEF, Simbu Provincial Health Authority and Simbu general hospital. (Project funded by UNICEF PNG)
- ❑ Impact of depressed economy on dietary energy intake among mothers and infants in NCD.
- ❑ Assessment of the Iodine Nutrition Status of Children (6 – 12 Yrs) resident in Siassi District Morobe Province Papua New Guinea.
- ❑ Drug Resistance Tuberculosis: Assessment of the Knowledge, Attitudes and Practices (KAP) among Students in the School of Medicine and Health Sciences, UPNG and Healthcare Professionals in the National Capital District, PNG.
- ❑ Antibiotic Resistance: Assessment of the Knowledge, Attitude and Practice of Antibiotic Resistance among Students in School of Medicine and Health Sciences, University of PNG.

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##### Books / Chapters in Books:

- ❑ “Biochemistry 1001: Review & Viva Voce Questions and Answers Approach”: **Victor J. Temple** (ISBN: 978 – 9980 – 86 – 960 – 9, Sterling Publishers Private Ltd, 2012, New Delhi-110 – 020.
- ❑ “A Practical Manual in Biochemistry & Clinical Biochemistry”: 4<sup>th</sup> Edition; Edited by: **Victor J. Temple**, Rachael Rowe, Nigani Willie and Samson Grant. (ISBN: 978 – 9980 – 84 – 919 – 9); Published by UPNG Press and Uni-Bookshop, 2013; P.O. Box 413, University PO, UPNG Campus, Waigani, NCD, Port Moresby, PNG Email: [upngbooks@gmail.com](mailto:upngbooks@gmail.com). [www.pngbuai.com](http://www.pngbuai.com).
- ❑ “A Practical Manual in Biochemistry & Clinical Biochemistry”: 3<sup>rd</sup> Edition; Edited by: **Victor J. Temple**, Nigani Willie and Samson Grant. (ISBN: 978 – 9980 – 84 – 919 – 9, UPNG Publishers, 2012, Port Moresby, PNG)
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- “An Introduction to Neurochemistry”. **Temple, V.J.** and Okoye, Z.S.C. (1990). Klobex Academic Publishers, Ilorin, Nigeria (Wrote Chapters 1-7)

#### Articles in Scientific Journals:

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2. **Victor J. Temple**, Judith Opu, Nigani Willie, John D. Vince, Nakapi Tefuarani and Richard Laki; Zinc status of children aged 12 to 59 months resident in the National Capital District, Papua New Guinea. *PNG Med J* 2016 Mar-Jun; 59 (1-2): 65-76.
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## Published Abstracts:

- Becky Tsang, VJ. Temple & Karen Codling. “Field Manual for project: Situation analysis of imported salt and rice into PNG: number and quantity of imports and extent of fortification” Published by Food Fortification Initiative Asia, July 2016
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- B. Pokris, C. Wali & **VJ Temple** “Aflatoxin B1 contaminants in some common foodstuffs in Papua New Guinea” Research Science and Technology, UPNG Science Conference 17 to 21 November 2014, University of PNG Waigani, PNG: Abstract A59\_PR\_1.
- Jessica Piel & **VJ Temple** “Assessment of Aflatoxin M1 levels in breast milk of lactating mothers in NCD, Western Highlands and Manus Provinces” Research Science and Technology, UPNG Science Conference 17 to 21 Nov 2014, University of PNG Waigani, PNG: Abstract A113\_PR\_1.
- **VJ Temple**, D Roffunduo, SJ Lomutopa, C Aquame, S Malai, M Mu-uh, M Kaven, N Pokale & W Nigani “Monitoring and evaluation of salt iodization in NCD” Research Science and Technology, UPNG Science Conference 17 to 21 November 2014, University of PNG Waigani, PNG: Abstract A44\_PR\_1.
- Debra Roffunduo & **Victor J. Temple** “Status of Iodine Nutrition among School-age Children in Kubalia District East Sepik Province, Papua New Guinea” PNG Medical Society, 49<sup>th</sup> Annual Medical Symposium, 2<sup>nd</sup> to 6<sup>th</sup> September 2013, Madang Conference centre; Abs 64.
- Samantha Lomutopa & **Victor J. Temple** “Status of Iodine Nutrition among Children (Age 6 – 12 Years) in Lufa District, Eastern Highland Province, Papua New Guinea” PNG Medical Society, 48<sup>th</sup> Annual Med Symposium, 2<sup>nd</sup> to 7<sup>th</sup> Sept 2012, Gateway Hotel Port Moresby, PNG, pp 45.
- Bosco Pokris, Chilaka Wali & **Victor J. Temple** “Prevalence of Aflatoxin B-1 in Foodstuffs in some Major Cities in Papua New Guinea” PNG Medical Society, 48<sup>th</sup> Annual Medical Symposium, 2<sup>nd</sup> to 7<sup>th</sup> Sept 2012, Gateway Hotel Port Moresby, NCD, PNG, pp 46.
- James L. Oken, Teleck Ayove & **Victor J. Temple** “Assessment of Aflatoxin M-1 in Breast Milk of Lactating Mothers in the National Capital District and Manus Province” PNG Medical Society, 48<sup>th</sup> Annual Med Symposium, 2<sup>nd</sup> to 7<sup>th</sup> Sept 2012, Gateway Hotel Port Moresby, PNG, pp 46
- Yvonne Golpak, Joshua Nara, Beatrice Solok, Mahmood S. Siddiqi, Racheal Rowe & **Victor J. Temple** “Using Enzyme Immunoassay to Assess the Prevalence of Helicobacter Pylori in Saliva of Dental Patients” PNG Medical Society, 48<sup>th</sup> Annual Medical Symposium, 2<sup>nd</sup> to 7<sup>th</sup> Sept 2012, Gateway Hotel Port Moresby, PNG, pp 48
- Shinoda N, Sullivan K, Tripp K, Erhardt J, Haynes B, **Temple VJ**. “Relationship between anemia and biomarkers of inflammation in children” 2<sup>nd</sup> International Meeting of the Micronutrient Forum. Micronutrients, Health and Development: Evidence-Based programs: Micronutrient Status Methodologies: Beijing China: Abstract TU 57, May 2009, pg 69

- Drammeh B, Schleicher R, Erhardt J, Haynes B, Tripp K, **Temple VJ**. "Assessment of vitamin A deficiency in women and children from Papua New Guinea using dried blood spot Retinol-Binding Protein" 2<sup>nd</sup> International Meeting of the Micronutrient Forum. Micronutrients, Health and Development: Evidence-Based programs: Micronutrient Status Methodologies: Beijing China: Abstract TU 63, May 2009, pg 70
- Tripp K, Woodruff B, **Temple VJ**., Saweri W, Haynes B, Codling K. "Iron and vitamin A status in Papua New Guinea: Results of A 2005 National Survey" 2<sup>nd</sup> International Meeting of the Micronutrient Forum. Micronutrients, Health and Development: Evidence-Based programs: Micronutrient Status Methodologies: Beijing China: Abstract TU 82, May 2009, pg 76.
- Oge R, **Temple VJ**, Vince J, Ripa P (2007). Assessment of nutritional status of infants in NCD by Anthropometry. 43<sup>rd</sup> Annual Medical Symp, 3<sup>rd</sup> – 7<sup>th</sup> Sept 2007. Port Moresby, NCD, pp 51.
- Ilaisa S, **Temple VJ**, Saweri W and Lloyd A. (2007). Assessment of dietary energy intake of PLWHA attending Heduru Clinic, Port Moresby General Hospital: 24-hour recall study. 43<sup>rd</sup> Annual Medical Symposium, 3<sup>rd</sup> – 7<sup>th</sup> Sept 2007. Port Moresby, NCD, pp 55.
- Oge R, **Temple VJ**, Vince J, Ripa P. (2006) Status of Iodine Nutrition in Infants and Lactating Women Resident in NCD, PNG. Medical Society of PNG 42<sup>nd</sup> Annual Medical Society Symposium, Sept 2006, Divine Word Univ. Madang.
- Haindapa B, **Temple VJ**, Turare R, Mata A, Amoa AB (2005). Urinary iodine concentration in pregnant and lactating women attending clinics in Port Moresby General Hospital, National Capital District, PNG. Medical Society of PNG 41<sup>st</sup> Annual Medical Society Symposium, Sept 2005, pp 43.
- Mapira P, **Temple VJ** and Adeniyi KO (2004). Using Anthropometric Data to Assess the Nutritional Status of Children (6 – 12 yrs) in Hella Region, SHP, PNG. Medical Society of PNG 40<sup>th</sup> Annual Medical Society Symposium, Sep 2004, pp 38.
- Mapira P, **Temple VJ** and Adeniyi KO (2003). Urinary Iodine Concentration In Children (6 – 12 years) in the Hella Region (Tari and Koroba Districts) In Southern Highland Province of PNG. Medical Society of PNG 39<sup>th</sup> Annual Medical Society Symposium, Sep 2003, pp 46.
- Mapira P, **Temple VJ**, Adeniyi KO (2003). Assessment of Iodine concentration in household salt and per capita consumption of salt in the Hella Region (Tari and Koroba districts) in the Southern Highlands Province PNG; Medical Society of PNG 39<sup>th</sup> Annual Medical Society Symposium, Sep 2003, pp 44

**Some Major Conferences and Workshops Attended and Papers Presented in the last 20 years:**

- The 17<sup>th</sup> Annual Conf. of the BSN, Ogun State Uni. Nigeria. 5<sup>th</sup>-7<sup>th</sup> Oct 1995.
  - Hypoglycaemic properties of the leaf extract of African mistletoe harvested from different host plants in the Jos area of Plateau State, Nigeria.
- National Workshop on Hospital Initiative on Complementary Feeding (Under the sponsorship of UNICEF and JUTH). JUTH, Jos, Nigeria. 16<sup>th</sup>-21<sup>st</sup> September 1996.
  - Nutrient composition of some local foodstuffs commonly consumed in Plateau State.
  - Complementary foods used in JUTH: Their formulation and nutritive values
- National Workshop on Community Initiative on Complementary Feeding (Sponsored by UNICEF, JUTH and Zonal Council for Children), Jos, Plateau State and Bauchi, Bauchi State Nigeria. 4<sup>th</sup>-10<sup>th</sup> October 1996.
  - Locally formulated complementary foods: Problems and prospects.
  - Fortification of locally used complementary foods.
  - Nutritive value of locally used complementary foods and their components: With special emphasis on the levels of anti-nutritional factors.
- The Medical Society of Papua New Guinea, 39<sup>th</sup> Annual Medical Symposium 1<sup>st</sup> to 5<sup>th</sup> September 2003, Mt. Hagen Western Highlands Province PNG
  - Urinary Iodine concentration in children in the Hella Region (Tari and Koroba districts) in Southern Highlands Province, PNG
  - Assessment of Iodine concentration in household salt and per capita consumption of salt in the Hella Region (Tari and Koroba districts) Southern Highlands Province PNG



- Joint Malaria Meeting 7 – 9 June 2004, Crowne Plaze Hotel Port Moresby, NCD, PNG, Sponsored by the Integrated Cooperative Research for Malaria Control (ICRMC) JICA.
  - Micronutrient deficiency and Malaria: A look at the literature.
- Workshop on Conservation and Sustainable Use of Biodiversity in PNG. Sponsored by University of Papua New Guinea and University of Utah USA, 12 – 28 June 2004. Gateway Hotel Port Moresby PNG.
  - Significance and protection of the traditional herbal medical practitioner.
- Workshop on Policy on Traditional Medicine Practices in PNG, NDOH. Workers Mutual House Conference Room, Port Moresby, 28 – 30 July 2004.
  - Ethical issues related to collection and lab analysis of traditional medicinal plants
- The Medical Society of Papua New Guinea, 40<sup>th</sup> Annual Medical Society Symposium 5<sup>th</sup> to 11<sup>th</sup> September 2004, Port Moresby Central Province PNG
  - Using Anthropometric data to assess the nutritional status of children (6 – 12 yrs) in the Hella Region (Tari and Koroba districts) in Southern Highlands Province, PNG
- PNG National Department of Health, UNICEF PNG Health, Nutrition and Early Childhood Development Mid-Term Review Workshop, 25<sup>th</sup> May 2005, Crown Plaza, Port Moresby PNG
  - Laboratory aspects of the on-going National Micronutrient Survey (NMS 2005)
- Medical Society of PNG, 41<sup>st</sup> Annual Medical Symposium 5<sup>th</sup> to 9<sup>th</sup> Sept 2005, Goroka,
  - Urinary iodine concentration in pregnant and lactating women attending clinics in Port Moresby General Hospital, National Capital District, PNG.
- Iodised salt monitoring workshop: Training for quarantine officers and food inspectors. Sponsored by NDOH and UNICEF: 22 to 26 May 2006, Madang Resort Hotel, Madang
  - Universal salt iodization (USI): A control for iodine deficiency
  - Proposed strategy for monitoring USI implementation in PNG
  - Salt iodization: Packaging and storage: situation analysis in PNG
  - Consolidation of the monitoring system for salt iodization in PNG
  - Salt iodization, monitoring and evaluation (SIME)
- National Research Agenda Workshop. Sponsored by PNG National AIDS Council Secretariat.(NACS) 2<sup>nd</sup> to 4<sup>th</sup> October 2007. Holiday Inn, Port Moresby.
  - Assessment of dietary energy intake of PLWHA attending Heduru clinic in PMGH.
  - Adherence to highly active antiretroviral therapy (HAART): The importance of nutrition.
- Consultation workshop on HIV Food and Nutrition in PNG. Sponsored by NDOH and Albion Street Centre Sydney Australia: 26<sup>th</sup> to 28<sup>th</sup> Nov 2007; WHO Conference Room, NDOH PSA House Port Moresby:
  - Status of HIV related food and nutrition research in PNG.
- University of Papua New Guinea Science Conference, “Science Innovations for Change”. 12 – 14<sup>th</sup> November 2008, Gateway Hotel, Port Moresby, PNG.
  - Vitamin A status of Infants and Toddlers in NCD, PNG
  - Thiamine deficiency among students in five boarding schools in NCD and Central Province PNG.
- National Research Agenda for HIV and AIDS: National AIDS Council Secretariat Papua New Guinea. 23<sup>rd</sup> September 2008, Crown Plaza Hotel, Port Moresby PNG:
  - Impact of poor nutrition on adherence to HAART among People living with HIV/AIDS.
- Research Question and its Significance: SMHS UPNG Research Workshop on Designing and Conducting Research: 4<sup>th</sup> and 5<sup>th</sup> June 2009, Port Moresby.
- Drug Monitoring and Research Workshop SMHS UPNG: Research questions and their significance. 30<sup>th</sup> & 31<sup>st</sup> August 2011.
- The 48<sup>th</sup> Annual Symposium of the Medical Society of PNG; 2 – 7 September, 2012, Convention Centre, Gateway Hotel, Port Moresby, PNG:
  - Using EIA to assess the prevalence of helicobacter pylori in saliva of dental patients.
  - Assessment of Aflatoxin M-1 in breast milk of lactating mothers in the National Capital District and Manus Province.
  - Prevalence of Aflatoxin B-1 in foodstuffs in some major cities in PNG.

- Status of iodine nutrition among children (age 6-12 years) in Lufa District, Eastern Highland Province, PNG.
- The 49<sup>th</sup> Annual Symposium of the Medical Society of PNG; 2<sup>nd</sup> to 6<sup>th</sup> September 2013, Madang Conference Centre, PNG.
  - “Status of Iodine Nutrition among School-age Children in Kubalia District East Sepik Province, Papua New Guinea”.
- Research Science and Technology, UPNG Science Conference 17 to 21 November 2014, University of PNG Waigani, PNG:.
  - “Aflatoxin B1 contaminants in some common foodstuffs in Papua New Guinea”
- Research Science and Technology, UPNG Science Conference 17 to 21 November 2014, University of PNG Waigani, PNG:
  - “Assessment of Aflatoxin M1 levels in breast milk of lactating mothers in NCD, Western Highlands and Manus Provinces”
- Research Science and Technology, UPNG Science Conference 17 to 21 November 2014, University of PNG Waigani, PNG:.
  - “Monitoring and evaluation of salt iodization in NCD”
- Coordinator and Resource person: Training Workshop (for PNG Customs and NAQIA Inspectors, and Environmental Health Officers NDOH), on the Project Titled: Situation Analysis of Imported Salt and Rice into PNG: Number and Quantity of Imports and Extent of Fortification: Wednesday 21<sup>st</sup> and Thursday 22<sup>nd</sup> September 2016, Division of Basic Medical Sciences (BMS), School of Medicine and Health Sciences University of PNG; Funded by Iodine Global Network (IGN), Food Fortification Initiative (FFI) Asia, UNICEF PNG.
- Resource person: Qualitative Assessment of Iron Content in Fortified Rice Sold in the National Capital District, Papua New Guinea. PNG Medical Society, 52<sup>nd</sup> Annual Medical Symp 4<sup>th</sup> to 9<sup>th</sup> September 2016, Alotau, Milne Bay Province PNG; Abs 45.

#### **RESEARCH GRANTS RECEIVED (RECENT):**

- **Current Major funded projects under my supervision (2015 to date):**
  - **Project funded by Iodine Global Network, Food Fortification Initiative and UNICEF: Project still in progress**
    - Situation analysis of imported salt and rice into PNG: number and quantity of imports and extent of fortification”: Joint project with Iodine Global Network, Food Fortification Initiative Thailand, UNICEF, NDOH PNG, PNG Customs and NAQIA
  - **Project funded by UNICEF PNG: Project still in progress**
    - Status of iodine nutrition among school-age children in Simbu Province PNG: Joint project with UNICEF, Simbu Provincial Health Authority and Simbu general hospital.
- **Research grant projects completed:**
- **Office of Higher Education Research Science and Technology Initiative Research & Development Grant, 2013: Research Grant received: May 2013**
- **Projects completed and final reports submitted on schedule (October 2013):**
  - Assessment of the impact of universal salt iodization (USI) strategy Lufa District EHP, PNG
  - Status of iodine nutrition among children (6 – 12 yrs) in Numbo Local Level Government-Kubalia district, East Sepik Province (ESP), PNG.
  - Assessment of zinc status in children age 12 to 59 months attending clinics in PMGH
  - Assessment of zinc status of pregnant and non-pregnant women in NCD
  - Status of iodine nutrition among children 6 to 12 years in Manus Province;
  - Assessment of Thyroid Function in Cord Blood after delivery in Manus Province;
  - Assessment of Thyroid Function among women in Manus Province;
  - Assessment of Aflatoxin M-1 in breast milk of lactating mothers in Western Highlands;

- **Projects in progress:**
  - Assessment of universal salt iodization and iodine status among children (6 – 12yrs) in East New Britain (ENB) Provinces
  - Status of iodine nutrition among children 6 to 12 years in Bougainville
  - Gene bank project II: Data base for genetic fingerprinting (STR) in PNG
  - Assessing the Vitamin D status of infants in NCD.
  - Impact of depressed economy on dietary energy intake among mother and infant in NCD
  
- **SMHS UPNG Research Grant: Research Grant received: April 2011**
- **All projects completed and final reports submitted on schedule (October 2011)**
  - Assessment of academic stress on cortisol level in saliva of students in UPNG.
  - Assessment of Aflatoxin B-1 in foodstuffs in different provinces in PNG
  - Assessment of Aflatoxin M-1 in breast milk of lactating mothers in NCD and Manus;
  
- **Office of Higher Education Research Grant received in July 2008:**
- **All projects completed and final reports submitted on schedule (Dec. 2009).**
  - Iodine nutritional status of School-age Children in Menyamy District, Morobe Province Papua New Guinea
  - Assessment of Thyroid Function in Cord Blood
  - Pseudo-cholinesterase activity in apparently healthy individuals in the National Capital District, Papua New Guinea
  - Assessment of the Dibucaine Numbers of Pseudo-cholinesterase in health individuals in National Capital District, Papua New Guinea
  - Using Glycosylated Haemoglobin (HbA1c) to assess Glycemic control in diabetic patients in Port Moresby General Hospital.
  - Retrospective assessment of the prevalence of Neonatal jaundice in Port Moresby General Hospital: January 2007 to December 2008
  
- **SMHS Research Grant committee approved funding in March 2008 but no fund was provided. Personal fund was used for this project.**
- **Project completed and final report submitted on schedule (Dec. 2008).**
  - Assessment of the Adherence to HAART by HIV positive patients in Port Moresby
  
- **Office of Higher Education: Research Grant received in December 2007 (Vitamin A project)**
- **Project completed and final reports submitted on schedule (Dec. 2007)**
  - Assessment and Monitoring of Vitamin A status of infants, age 6 to 59 months attending Paediatric clinic in Port Moresby General Hospital
  - Nutritional status of children in NCD.
  - Assessment of Vitamin A status of non-pregnant women in NCD.
  - Assessment of Microalbuminuria among diabetic and hypertensive patients in PMGH
- **World Health Organization Research Grant received in September 2006**
- **Project completed and final report submitted on schedule (Dec 2006).**
  - Thiamine Status of Students Attending Boarding Schools in NCD and Central Province

**HOBBIES & INTERESTS:** Internet, Computer Software; Reading, Chess; Lawn Tennis, Table Tennis, Darts, Football, Athletics and Cricket.

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 Updated May 2017