CURRICULUM VITAE

ROBERT A NGALA

*BSc (Hons), MSc, PhD,*

**PROFESSOR: CHEMICAL PATHOLOGY**

1. **Personal Details**

Name Robert A Ngala

Date of Birth 15 Sept 1960

Nationality Ghanaian

Marital Status Married

Profession Chemical Pathologist

Position Professor

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1. **Degrees (including subject class University and date)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| PhD | Life Sciences | - | University of Buckingham UK | 2006 |
| MSc | Chemical Pathology | - | KNUST, Kumasi | 1994 |
| BSc | Biochemistry |  | KNUST, Kumasi | 1985 |

1. **Posts held (with dates) research/ capacity in your Department/ Faculty**

|  |  |
| --- | --- |
| Head of Department :Molecular Medicine | October 2012-2014 |
| Head of Department :Sonography | October 2014-2015 |
| Head of Department :Sports and Exercise) | August 2017 to July 2018 |
| Head of Department :Molecular Medicine | August 2018 to date |

1. **Duties and responsibilities**

|  |  |
| --- | --- |
|  | Day to day running of the department .Provide leadership and mentorship for the young lecturers. Coordinate Teaching and Research in the Department |

1. **EDUCATION**

|  |  |  |
| --- | --- | --- |
| INSTITUTION | Year of Attendance | Degree/certificate earned |
| University of Buckingham (United Kingdom) | 2002-2006 | D. Phil (Life Science) |
| University of Science and Technology (Kumasi | 1990-1993 | M.Sc. Chemical Pathology |
| University of Science and Technology (Kumasi | 1980-1985 | B.Sc. Biochemistry |

1. **SERVICE TO THE COMMUNITY**

|  |  |  |
| --- | --- | --- |
| 1 | **SMS Representative** on Board of Pharmaceutical Sciences Pharmacy | Dec 2013-Sept 2019 |
|  | Academic Tutor | 1996-2002, 2008-2012 and 2016 to date |
| 2 | **Chairman**: Committee for the review of proposal of PhD, MSc and BSc (Top-up) programmes in the Department of Medical Laboratory 2013 | December 2013 |
| 3 | **Member**: SMS Re-Accreditation team (2014) | 2014 |
| 4 | **Member**: SMS supported Human Capacity Development Project (2014) | 2014 |
| 5 | **Membe**r: Committee on Pathology Consultancy service | 2017 |
| 6 | **Membe**r: Catholic hostel Management committee | Aug 2014 to date |
| 7 | **Chairman**: School of Medicine and Dentistry Space Allocation committee | Oct 2019 |
| 8 | **Membe**r: College of Health Science Post Graduate committee | Oct 2020 |
| 9 | **Chairman**: Committee for review of proposal to mount programmes at the School of Veterinary Medicine | March 2021 |
| 10 | **Member**: College facility management committee | July 2021 |
| 11 | **Board Chairman**- Board of governors, Kpandai Senior High School | 2015 to date |
| 12 | **External Examiner**  PhD MPhil School of graduate studies University of Ghana  MSc Thesis assessment.  Thesis assessment. University of Ghana Medical School | UG : 2012 to date |
| 13 | External Examiner; School of Allied Health Sciences UG –Korle-Bu | July 2012 to date |
| 14 | Assessor: For the promotion of lecturer to the rank of Senior Lecture for  UCC, UG and UDS staff | UG, UCC and UDS |
|  | **INTERNATIONAL SERVICE** |  |
| 1 | **Visiting fellow** - University of Buckingham, UK | University of Buckingham |
| 2 | **Coordinato**r:  Developing a collaborative Research in Diabetes between the Universities of Buckingham, (CLORE Laboratory). UK. and the Department of Molecular Medicine, and School of Pharmacy K.N.U.S.T | Research collaboration 2009 to date |
| 3 | **Membe**r: Reviewers Team for international journals (8) (See section 9.3) | I am a member of reviewers team for more than 9 journal |
| 4 | Guest Speaker: University of Buckingham Alumni Meeting The effect of HIV and Malaria on the economic development of Africa | The speech was delivered in conference on the University Campus 2014 |
| 5 | Alumni University of Buckingham | 2006 |
| 6 | Honorary Recruitment consultant of the University of Buckingham in Ghana | Since 2011 |

1. **Professional Affiliations**.
2. University Teachers Association of Ghana (UTAG)
3. Ghana Science Association- Ghana 1996-to date
4. Ghana Laboratory Science Association 1996-to date
5. British Pharmacological Association. UK 2003-2007
6. Alumni; University of Buckingham
7. KNUST :Alumni
8. Member, International Diabetes Federation 2003-date

# RESEARCH INTEREST:

# Diabetes and obesity

* 1. Metabolic Syndrome
  2. Discovery and Development of antidiabetic drugs from Tropical Plants
  3. Pharmacology of

1. β and α Adrenoreceptors, on fat metabolism
2. Peroxisome proliferator-activated receptor α and δ on fat regulation

**Running Research**

1. Use of diet for management of type 2 diabetes as supplement or replacement of antidiabeteic drugs
   1. Biochemical Properties and Chromatographic Investigation of Palm oils, coconut oil and groundnut oil in Ghana
   2. Effect of dietary vegetable oil consumption on blood glucose levels, lipid profile and weight in diabetic mice:
2. Antidiabetic properties of *Myrianthus Arboreous P Beauv* in STZ-induced diabetic rats
3. Effect of *myrianthusarboreus p. beauv*. on cyclic AMP, protein kinase and creatine kinase in STZ-induced diabetic rats
4. **Recent Publications** 
   1. **BOOK published: Dietary vegetable oil consumption on glucose levels in diabetic mice;**

**Robert A Ngala & Isaac Ampong**.

Lambert Academic Publishiong- Germany: **ISBN:978-3-659-92011-0**

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* 1. **Recent Research Articles Published**

1. Benjamin Kingsley Harley, Rita Akosua Dickson, Isaac Kingsley Amponsah,

Robert A Ngala, Dorice Berkoh,, Theophilus Christian Fleischer: Antidiabetic effect of Chrysophyllum albidumis mediated by enzyme inhibition and enhancement of glucose uptake via3T3-L1 adipocytes and C2C12 myotubes Asian Pacific Journal of Tropical Biomedicine 2020; 10(9): 387-396

1. Ahmed Tijani Bawah **Robert Amadu Ngala**, Mohammed Mustapha Seini, Francis Abeku Ussher, Huseini Alidu, Joshua Dokurugu Kwame Wumbee, Francis Agyeman Yeboah (2019). Gestational diabetes mellitus

and obstetric outcomes in a Ghanaian community *Int J Reprod Contracept Obstet Gynecol*. 8(1):204-20

1. **Robert Amadu Ngala** Martin Akilla and Paul Nsiah (2018). The effect of plasma chromium on lipid profile, glucose metabolism and cardiovascular risk in type 2 diabetes mellitus. A case control study. PLoSONE 13(7):e0197977.https//doi.org/10.1371/journal.pone.0197977
2. **Ngala RA**, Fondjo LA, Gmagna P, Ghartey FN, Awe MA (2017). Placental peptides metabolism and Maternal factors as predictors of risk of gestational diabetes in pregnant women. A case control study. PLoSONE12 (7):e0181613.https://doi.org/10.1371/journal.pone.0181613
3. [Yeboah FA](https://www.ncbi.nlm.nih.gov/pubmed/?term=Yeboah%20FA%5BAuthor%5D&cauthor=true&cauthor_uid=28670144)1, [**Ngala RA**](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ngala%20RA%5BAuthor%5D&cauthor=true&cauthor_uid=28670144)**1**, [Bawah AT](https://www.ncbi.nlm.nih.gov/pubmed/?term=Bawah%20AT%5BAuthor%5D&cauthor=true&cauthor_uid=28670144)2, [Asare-Anane H](https://www.ncbi.nlm.nih.gov/pubmed/?term=Asare-Anane%20H%5BAuthor%5D&cauthor=true&cauthor_uid=28670144)3, [Alidu H](https://www.ncbi.nlm.nih.gov/pubmed/?term=Alidu%20H%5BAuthor%5D&cauthor=true&cauthor_uid=28670144)2, [Hamid AM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Hamid%20AM%5BAuthor%5D&cauthor=true&cauthor_uid=28670144)2, [Wumbee JDK](https://www.ncbi.nlm.nih.gov/pubmed/?term=Wumbee%20JDK%5BAuthor%5D&cauthor=true&cauthor_uid=28670144)4.Adiposity and hyperleptinemia during the first trimester among pregnant women with preeclampsia. [*Int J Womens Health*.](https://www.ncbi.nlm.nih.gov/pubmed/28670144) 2017 Jun 16;9:449-454. doi: 10.2147/IJWH.S134088. eCollection 2017
4. Bernice Asiedu, Yvonne Anang, Adraina Nyarko, Derek Amartey Doku, Brodrick Y. Amoah, Sheila Santa, **Robert A. Ngala** & George A. Asare (2017). The role of sex steroid hormones in benign prostatic hyperplasia *The Aging Male*, DOI: 10.1080/13685538.2016.1272101
5. George Awuku Asare\*,**Robert A. Ngala**, Daniel Afriyie, Samuel Adjei, Adriana Nyarko,,Yvonne Anang-Quartey ,Bernice Asiedu, Derek Doku, Brodrick Y .Amoah Kennedy Bentum, Iddi Musah and Kensese Mossanda, (2017). Calcium - Magnesium imbalance implicated in benign prostatic hyperplasia and restoration by a phytotherapeutic drug–Croton membranaceus Müll.Arg. *BMC Complementary and Alternative Medicine*
6. **Robert A. Ngala**, Martin A Awe, Paul Nsiah (2017). Anthropometrics Evaluations in Type 2 Diabetes Mellitus Patients, with and Without Metabolic Syndrome. A Case Control Study. *Savant Journal of Medicine and Medical Sciences*. Vol 3(1) pp. 001-014 March, 2017
7. Sheila Santa, Bernice Asiedu, **Robert A. Ngala**, Jonathan Kofi Adjei Maria Anyorikeya Brodrick Y. Amoah and George A. Asare1\*. (2016). Chronic Use of Hormonal Contraceptives and its Impact on Cardiovascular Risk. British Journal of Medicine & Medical Research17(4): 1-11, 2016, Article no.BJMMR.26391
8. **International collaborations;**
9. Visiting fellow - University of Buckingham, UK.
10. Developing a collaborative Research in Diabetes between the Universities of Buckingham, UK. and the Department of Molecular Medicine, K.N.U.S.T.
11. **CONFERENCES/WORKSHOPS** 
    * 1. 20TH World Diabetes Congress, Montreal. Canada 18-22 Oct 2009 (Presented Poster on the topic: Signal transduction Mechanism of BRL 37344 and clenbuterol stimulated glucose uptake in mouse isolated skeletal muscle)
      2. Second Annual Scientific Conference (College of Health Science, KNUST) 10-11 Sept 2009 (Audio Visual/ Oral Presentation on the topic; Why are thin people not **fat**?)
      3. Third Annual Scientific Conference (College of Health Science, KNUST) 10-11 Sept 2010
      4. Fourth Annual Scientific Conference (College of Health Science, KNUST) 10-11 Sept 2011
      5. 27th Biennial Conference Ghana Science Association (Kumasi) 10-15 July 2011
      6. STEM conference KNUST/ KUMASI (MAY 29-31 2012)
      7. MEPI Workshop South Africa 5-8 June 2012
      8. Curriculum development Retreat 13th -17th March 2016 Busua Beach Resort
      9. Fifth AfriNEAD and 7th College of Health Science Conference 7th -9th August 2017
12. **International Service/collaborations**
13. Visiting fellow - University of Buckingham, UK.
14. Developing a collaborative Research in Diabetes between the Universities of

Buckingham, (CLORE Laboratory). UK. and the Department of Molecular

Medicine, and School of Pharmacy K.N.U.S.T

1. British pharmacological Society (BPS)
2. Member of International Diabetes Federation
3. Member of Reviewers Team of the following journals

* 1. International Journal of Medicine and Medical Research (IJMMR)
  2. Journal of AIDS and HIV Research
  3. International Journal of Nutrition and Metabolism
  4. Journal of Public Health and Epidemiology
  5. J[ournal of International Medical Research](http://info.sagepub.co.uk/c/11r4dbrquWq4tfdRXYAwB0LpYq)
  6. I[nternational Journal of Medicine and Medical Sciences](http://www.academicjournals.org/journal/IJMMS)
  7. I[nternational Journal of Medic](http://www.academicjournals.org/journal/IJMMS)al Research
  8. [Journal of Clinical Medicine and Research](http://www.academicjournals.org/journal/JCMR)
  9. Journal of Ghana Science Association