# CURRICULUM VITAE

## 1. BIO DATA

NAME: Edward Tsiri Agbenyega

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**DATE AND PLACE OF BIRTH:** 15th May 1958. Agormanya, Ghana

**MARITAL STATUS:** Married with three children

**NATIONALITY:** Ghanaian

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| I received my BSc in Human Biology from Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, and obtained a Bachelor of Medicine, Bachelor of Surgery (MB.ChB) at the same University in 1982. I did PhD training in physiology at the University of Manchester (UK) from October 1987 - February 1991.I am currently a Professor in the Department of Physiology in the School of Medical Sciences (SMS) and a Principal Medical Officer at the Department of Child Health, Komfo Anokye Teaching Hospital (KATH) Kumasi, Ghana. I am a seasoned researcher who currently heads the malaria research group in the Department of Child Health at KATH. Funding for my research has come from the National Institutes of Health (NIH) USA, the Welcome Trust, the World Health Organization, GlaxoSmithKline (GSK), PATH-Malaria Vaccine Initiative (MVI) and the Gates Institute.I have served on many committees and boards of the University. The highlight of my service has been as Dean of the School of Medical Sciences (KNUST) from April 2002 to September 2008 and as a member of the Council of the Kwame Nkrumah University of Science and Technology for four years, from January 2006 – December 2009 and Provost, College of Health Science. 1st August 2011 – 31st September 2017 |

## 2. EDUCATIONAL BACKGROUND

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### 2A. ACADEMIC QUALIFICATIONS

1. Certificate in Strategic Leadership, July 2006
2. PhD (Physiology), February 1991
3. MB ChB., December 1982
4. BSc. (Human Biology), June1979
5. General Certificate of Education (West Africa): Advanced Level, June 1976
6. General Certificate of Education (West Africa): Ordinary Level, June 1974
7. Common Entrance Examination, June 1969

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### 2B. INSTITUTIONS ATTENDED

1. Gates Institute, Johns Hopkins University, USA, July 2006
2. University of Manchester, UK, November 1987 - February 1991
3. Kwame Nkrumah University of Science and Technology, September 1979 - December 1982
4. Kwame Nkrumah University of Science and Technology, September 1976 - June 1979
5. Mfantsipim School, Cape-Coast, Ghana. September 1974 - June 1976
6. Prempeh College, Kumasi, Ghana. September 1969 - June1974
7. Accra New Town Experimental Primary School 1963 - June 1969

## 3. ADMINISTRATIVE EXPERIENCE

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| I have acquired a lot of experience by serving on several committees and boards within and outside the University (both National and International). My service also includes administrative positions such as the head of the department of Physiology in the School of Medical Sciences and the Dean of the same School. The highlights of some of my services are indicated below. |

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### 3A KNUST

1. Provost, College of Health Sciences, KNUST, 1st August 2011 – 31st September 2017
2. **Member**, Special Academic Board Committee to review the Act and Statutes of KNUST 2010 – 2017
3. **Member (Professorial) of the Council** of the Kwame Nkrumah University of Science and Technology: January 2006 - December 2009
4. **Dean,** SMS, KNUST, April 2002 - Sept 2008
5. **Member** of the National Accreditation Board inspection team to University of Cape Coast School of Medical Sciences. September, 2010
6. **Chair**, Medical and Dental Council of Ghana Inspection Team to University of Cape Coast School of Medical Sciences. November, 2010

###### **Deputy Vice Dean,** SMS, KNUST, 1997 - 2001

1. **Member,** SMS, KNUST Board, 1991 - date
2. **Member,** Board of the School of Graduate Studies, KNUST, 1999-2002
3. **Member,** Executive Committee, KNUST, 2002-2004
4. **Member**, Academic Board, KNUST, 1991 - date
5. **Member,** Ghana Universities Superannuation Scheme (GUSS) Management Board, KNUST, January 2006 - December 2009
6. **Head,** Department of Physiology, SMS, October, 1992 – 2001 and October 2009 - date
7. **Co-ordinator**, Pre-clinical Programme, SMS, October, 1992-2001
8. **Examinations** **Officer**, Department of Physiology, SMS, 1992-1997
9. **Member**, Committee on Human Research, Publications and Ethics of SMS, KNUST, 1997 – 2002
10. **Chairman**, SMS Welfare Management Committee, 2000 - 2002
11. **Member**, SMS Scientific Working Group, 2000 - 2002
12. **Chairman**, SMS Guesthouse Management Committee, 1998 - 2002
13. **Member**, Inter Faculty Committee of the Academic Board to study and make recommendation on a proposal for the establishment of a department of Optometry and Visual Science.
14. **Member**, Advisory Board, Kumasi Centre for Collaborative Research into Tropical Medicine, 2002 – 2008
15. **Chairman,** Committee to review the application of *Narh-Bita* Hospital for affiliation of the Physician Assistant Programme, 2009
16. **Chairman**, Committee that drafted the Veterinary Medicine programme for the School of Veterinary Medicine, KNUST, 2008
17. **Chairman,** Vice-Chancellor’s Task Force on upgrading of KNUST Hospital, 2004

### 3B. NATIONAL

###### **Member,** Komfo Anokye Teaching Hospital Board, 2002 – 2008

1. **Member**, Medical and Dental Council of Ghana, 2002 - 2008
2. **Member,** Curriculum Development Sub-committee that prepared a blueprint for the establishment of a School of Medical and Health Sciences at The University for Development Studies Tamale, 1994

#### **Membe**r, Editorial Board of the Ghana Medical Journal,1998 – 2006

1. **Membe**r, Financial, Technical and Human Resource Committees of the Komfo Anokye Teaching Hospital Board, 2002 – 2008
2. **Member,** Educational sub-committee of the Ghana Medical and Dental Council 2002 - 2008
3. **Member,** Panel of the National Accreditation Board which reviewed the Medical Programme of the School of Medical Sciences, University of Cape Coast, July 2007
4. **Chairman,** Panel of the National Accreditation Board which reviewed the Medical Programme of the proposed St. Luke’s Medical School in Accra, November 2007
5. **Member,** Ghana Medical and Dental Council team to review the programme for the School of Medicine and Health Sciences, UDS, Tamale, 2008
6. **Chairman**, Advisory Board, Kintampo Rural Training School, Ghana, 2010 – 2017
7. **Medical Director,** Hope Exchange medical Centre Santasi, Kumasi 2017-date
8. **Member of Governing Council.** National Council for Tertiary Education 2017-2020.
9. **Member**, Board of the Ensign College of Public Health. 2013-date

### 3C. INTERNATIONAL

#### **Membe**r, Editorial Board, Croatian Medical Journal, 1997 - 2012

1. **Member**, Steering and Planning Committee for the DCA/MALA clinical trial. An NIH funded clinical trial involving the National Institute of Allergy and Infectious Diseases (NIAID), St. George’s Hospital Medical School, UK and University of Florida at Gainesville, USA, 1997 – 2001
2. **Member**, Planning group of a multi-centre Network in five sites in Africa, Gabon, Gambia, Ghana, Kenya and Malawi, 1997
3. **Member**, WHO Endpoint Review Committee on Study 13 (Pre-referral rectal artesunate to prevent death and disability in severe malaria: placebo-controlled trial), 2004
4. WHO **Temporary Expert Advisor** on the use of Rectal Artesunate in the treatment of childhood malaria, 2005
5. **Member,** Project Management Committee, *MalariaGEN* consortium, 2006 – 2010
6. **Member,** Clinical Trials Partnership Committee (CTPC) of the RTSS malaria vaccine trial 2007 - date
7. **Co-Chair,** Clinical Trials Partnership Committee (CTPC) of the RTSS malaria vaccine trial, 2009 - date
8. **Member,** Data and Safety Monitoring Board (DSMB) for the Rotavirus Vaccine “Rotateq”, 2007 - 2009.
9. **Member**, Data and Safety Monitoring Committee (DSMC) International Medica Foundation, 2009 - date
10. **Member**, WHO-Ghana Technical Advisory Group (TAG) for the malaria candidate vaccine, “RTS,S” introduction in Ghana, 2009 - date.
11. **Member**, DSMB of The Oxytocin Initiative, Ghana, 2010 – date
12. Member, DSMB of the DNDi Efficacy, Safety and Population-Pharmacokinetics of AS-MQ combination for the Treatment of Uncomplicated Falciparum Malaria in African children versus Artemether-Lumefantrine
13. Member, IDMC of the Janssen Study, A Randomized, Observer-blind, Placebo-controlled, Phase 2 Study to Evaluate the Safety, Tolerability and Immunogenicity of Different Prime-boost Regimens of the Candidate Prophylactic Vaccines for Ebola Ad26.ZEBOV and MVA-BN-Filo in Healthy Adults, Including Elderly Subjects, HIV-infected Subjects, and Healthy Children in Two Age Strata in Africa-2017

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## 4. UNIVERSITY TEACHING AND RESEARCH EXPERIENCE

### 4A. ACADEMIC RANKS HELD

1. **Professor**, Department of Physiology, SMS, KNUST. October 2005 - date
2. **Associate Professor**, Department of Physiology, SMS, KNUST. October 2000 -September 2005
3. **Senior Lecturer**, Department of Physiology, SMS, KNUST. October 1995 -September 2000
4. **Head,** Department of Physiology, SMS, KNUST. October 1992 - September 2001 and October 2009 – July 2011
5. **Lecturer,** Department of Physiology, SMS, KNUST. April 1991 - September 1995
6. **Coordinator**: Basic Science Programme, SMS, KNUST, October 1992 - September 2001

### 4B. TEACHING

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| My contribution to teaching in the University, in the Department of Physiology at SMS, KNUST, has been exemplary. As the first physiologist to take up a full time appointment in the department, I was instrumental in its development. As head for about ten years, I was able to direct the development of the department to an acceptable international standard. I have always attended all my lectures, tutorials and practicals punctually. I hardly missed lectures in-spite of my busy schedule as the head of department for ten years, Deputy-Vice Dean of the School of Medical Sciences for four and Dean for six and a half years. I taught and gave guidance to postgraduate students. These students included students on the reproductive biology programme, doctors on the West African College programmes and other foreign & local masters students. I have never been on leave since my appointment as lecturer. This sacrifice has been necessitated by the fact that our department has never had the full complement of academic staff. Below is an itemised list of the contributions I have made as a teacher in the University. |

1. **Teaching first and second-year pre-clinical medical students**

*Topics taught in the past include*:

* General Physiology
* Respiratory Physiology
* Endocrine Physiology
* Cardiovascular Physiology
* Renal Physiology
* Gastrointestinal Physiology
* Reproductive Physiology
* Neuro Physiology
1. **Teaching postgraduate students on the inter-departmental Reproductive Biology programme**

*Topics taught include:*

* *Some aspects of Endocrine Physiology*
* *Human Reproductive Physiology*
1. ***Teaching postgraduate students in Medicine, Paediatrics, Obstetrics & Gynaecology, Surgery, Ophthalmology, Ear Nose & Throat on the West Africa College programme***

*Topics taught:*

* *General Physiology*
* *Cardiovascular Physiology*
* *Some Aspects of Neurophysiology*
1. ***Teaching physiology to first and second year Laboratory Technology students.***

*Topics taught:*

* *General physiology*
* *Cardiovascular physiology*
1. ***Part time lecturer in Clinical Trials in Practice, on the MSc Clinical Trials programme at the School of Public Health, University of Ghana, 2010.***

### 4C. SUPERVISION OF STUDENT PROJECTS

#### *Supervision of a MSc. project on the inter-departmental Reproductive Biology programme, 1995 - 1997*

* + *Topic: The return to fertility following the cessation of some hormonal contraceptives in Ghanaian women.*

##### *Co-Supervision of a German medical student. This project was in collaboration with the Kumasi Centre for Collaborative Research (KCCR), May – August 2000*

* + *Topic: A prospective study of bacteraemia in the context of severe malaria.*

##### *Co-Supervision of a research project as part of requirements for an MPhil degree, 2004 – 2005*

* + *Topic: The role of zinc deficiency in bacterial meningitis.*
1. *Co-Supervision of a PhD Student in the department of Community Health, SMS, on the Malaria Capacity Development Consortium a new PhD fellowship programme for African scientists, funded by the Wellcome Trust, 2009 - 2013*

##### *Topic: Mapping malaria epidemiology, interventions and transmission in a rural district in Ghana.*

1. *Co-Supervision of a Phd Student in a Split-Site programme with the University of Westminster, UK*
* *Topic: Microcytic hypochromic red blood cells confer protection from severe Plasmodium falciparum malarial parasitaemia in both α+ thalassaemias and non thalassaemia individuals 2009 – 2014*
1. *Supervision of MPhil Student in The Department of Physiology KNUST*
* *Topic: -2011Determination of Safe Apnoea Period in Relation to Haemoglobin Concentration at the Komfo Anokye Teaching Hospital*
1. *Supervision of MPhil Student in The Department of Physiology KNUST*
* *Topic: Iron Stores, Hematology and Red Cell Indices Recovery Rate in Ghanaian Blood Donors*
1. *Supervision of MPhil Student in The Department of Physiology KNUST*
* *Topic**Hematology Reference Ranges For Young Healthy Ghanaian Adults: A Study Among Ghanaian Cohort In KNUST Kumasi*

### 4D. EXTERNAL EXAMINER

1. School of Medical and Health Sciences, UDS, Tamale, 2000 - 2003
2. School of Medical Sciences, University of Cape-Coast, 2009 - 2015
3. Post Graduate College, University of Ghana, Legon, 2008 – 2010

### 4E. EXTERNAL ASSESSOR FOR PROMOTIONS

1. School of Medicine, University of Utah, USA
2. University of Ghana Medical School, Ghana
3. Liverpool School of Tropical Medicine, Liverpool University UK
4. University of Education Winneba, Ghana
5. University Of Lagos, Nigeria

***4F. MEMBER, INTEVIEW PANEL FOR THE SCHOOL OF ALLIED HEALTH SCIENCES, VR***

### 4G. RESEARCH EXPERIENCE

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| Although I started my research career in muscle physiology, I have developed a keen interest in the patho-physiology of malaria and have been involved in malaria research since 1993. I currently head the clinical malaria research group in the Department of Child Health at KATH. As the leader of the research group, I have mentored and actively sourced funding for training colleagues I work with. Research projects I have been involved in are listed below in this section. |

1. ***Malaria Associated Lactic Acidosis Clinical Trial*:** NIH funded Clinical trial to investigate the effect of “Dichloracetate (DCA) on Mortality in Severe Malaria in African children”. A randomized, placebo-controlled, double-blind, Phase II clinical trial to test the hypotheses that intravenous DCA is safe and improves morbidity in young African children with lactic acidosis due to severe *P. falciparum* malaria. We also determined the population plasma pharmacokinetics of DCA and the effect of the drug on the plasma kinetics of intramuscular quinine **(1999 - 2001**)

**Role: Principle Investigator (PI)**

1. ***Evaluating the prognostic importance of lactic acidosis in malaria and in other severe non-malarial illness by comparison of prognostic variables to identify potentially treatable patho-physiological processes associated specifically with malari****a****:*** A NIH funded project. A multi-centre prospective observational study of intraleukocytic and intraerythrocytic pigment as prognostic features in African children with falciparum malaria. As a member of the Severe Malaria in African Children Network, I have been involved in the evaluation of intraleukocytic and intraerythrocytic malaria pigment as indicators of poor prognosis in African children hospitalized with severe malaria. **(2001 - 2004)**

**Role:PI**

1. ***Malaria/Genetics Study:*** A study to investigate human genetic variants influencing susceptibility and resistance to severe and complicated malaria. In collaboration with the KCCR **(2001 - 2006)**

**Role: PI**

1. ***Malaria Bacteremia Study*:** A SMS/KCCR funded project to determine the role of bacteremia in children with clinical signs and symptoms of severe malaria. In collaboration with the KCCR **(2000-2002)**

**Role: Co-PI**

1. ***Sickle Cell Immunology Study:***An open labelled randomised trial investigating the immunogenicity of pneumococcal and *Hemophilus influenza* type b conjugate vaccine in children with sickle cell disease **(1998 - 2003)**

**Role: Co-PI**

1. ***WHO funded Study 15:*** A randomised controlled study to obtain safety and efficacy data on the use of a rectal formulation of artesunate as a treatment for acute “*non-per-os”* malaria. **(2004 - date)**

**Role: PI**

1. ***Febrile Convulsion Stud*y***:*  SMS funded project. The role of lumbar puncture in the management of children with febrile convulsion **(2000 - 2001)**

**Role: Co-PI**

1. *Incidence of Acute Infection in Young Children with Sickle Cell Disease (SCD) in Africa:* A NIH funded project. In which, a cohort of young children with SCD diagnosed from birth were monitored closely to collect prospective data to determine the incidence of bacterial and malarial infection. (2003 - 2005)

Role: Co-PI

1. ***Rapid Assessment of Blood Lactate:*** A NIH/SMAC funded study to evaluate the “Lactate Pro” portable lactate analyser as an instrument to measure blood lactate concentration in patients enrolled in SMAC-sponsored clinical studies **(2001 - 2002)**

**Role: PI**

1. ***The Ocular Fundus In Cerebral Malaria:*** A NIH funded study in which the SMAC network proposed to test the hypothesis that the clinical diagnosis of cerebral malaria can be significantly improved by a bedside examination of the ocular fundus. NIAID/SMAC sponsored **(2006 - date)**

**Role: PI**

1. ***The KNUST – JHU Gates linkage programme:*** Funded by the Gates Foundation through the Gates Institute at Johns Hopkins University. Theaim was to build long-term sustainable capacity in Population and Reproductive Health in order to provide leadership and expertise to address the priority population and reproductive health problems of Ghana and the rest of the world. The 1st phase was extended by another five years **(2003 - 2013)**

**Role: PI**

1. ***Malaria/Genetics as part of the Grand Challenges in Global Health:*** Funded by the Gates Foundation it is a collaborative project with the Wellcome Trust Centre for Human Genetics, University of Oxford. Its aim was to learn from the Human Genome how protective immunity against malaria works **(2005 - 2009)**

**Role: PI and Member of the Programme Management Committee**

1. ***Phase II, Pre Phase III and Phase III Clinical Trial of the Malaria Vaccine candidate RTS’S:***  A Gates Foundation/Malaria Vaccine Initiative and GSK Biologicals is a multi-centre study to evaluate, in infants and children, the efficacy of the RTS,S/AS01E candidate vaccine against malaria disease caused by *P. falciparum* infection, across diverse malaria transmission settings in Africa **(2006 – 2014)**

**Role: PI**

1. ***Malaria Transmission Intensity***. An epidemiology study to assess Plasmodium falciparum parasite prevalence and serological conversion rates in catchment areas of a Phase III trial of the candidate malaria vaccine RTS,S/AS01E in sub-Saharan Africa **(2010 – 2014)**

**Role: PI**

1. **MAL063 Phase III** Randomized, Open, Controlled Study to Evaluate the Immune Response to the Hepatitis B Antigen of the RTS,S/AS01E Candidate Vaccine, when Administered as Primary Vaccination Integrated into an EPI regimen to Infants Living in Sub-Saharan Africa (MAL063) (**2012-2016). Role: PI**
2. **SMAC Artesunate study**: Follow Up Study Comparative, Open Label, Dose and Regimen Optimization Follow-up Study of Intravenous and Intramuscular Artesunate in African Children with Severe Malaria. (**2012-2014). Role: PI**
3. **TADO Study:** Randomized, Efficacy and Safety Comparison of Prasugrel and Placebo in Pediatric Patients with Sickle Cell Disease - TADO (**2014-2016)**. **Role: PI**
4. Phase IIIb Randomized, Open, Controlled, Multi-Center Study to Evaluate the Immunogenicity and Safety of the RTS,S/AS01E Candidate Malaria Vaccine, when Administered as Primary Vaccination at 6,7.5 and 9 Months of Age with or without Co-Administration of Measles, Rubella and Yellow Fever Vaccines followed by RTS,S/AS01E Booster Vaccination 18 Months Post Dose 3, to Children Living in Sub-Saharan (MAL073) (2016-2019)
5. Phase IIb randomized, open-label, controlled, multicenter study of the efficacy, safety and immunogenicity of GSK Biologicals’ candidate malaria vaccine RTS,S/AS01E evaluating schedules with or without fractional doses, early Dose 4 and yearly doses, in children 5-17 months of age living in sub-Saharan Africa (MAL094). (2017-2022)

## 5. OTHER PROFESSIONALLY RELATED EXPERIENCE

1. **Principal Medical Officer.** Department of Child Health, KATH, Kumasi, Ghana. **April 1999 - date**
2. **PhD Student.** University of Manchester, UK. **October 1987 - January 1991**
3. **Senior Medical Officer**. Department of Child Health, KATH, **March - September 1987**
4. **Medical Officer.** Department of Child Health, KATH, **April 1985 - September 1987**
5. **Medical Officer**. Department of Medicine, KATH, **September 1984 - March 1985**
6. **Medical Officer.** Department of Obstetrics and Gynaecology, KATH, **March 1984 - August 1984**
7. **House Officer**. Department of Medicine, KATH, **February - August 1983**
8. **Demonstrator**. Department of Physiology and in Clinical Methods, School of Medical Sciences and KATH, **April 1983 – March 1984**

## 6. AWARDS/FELLOWSHIPS/HONOURS

1. Dean’s Award for Best Worker, Senior Member category, in the SMS, KNUST, December 1998.
2. Leverhulme Trust award as a visiting Research Fellow (Post Doc Position) in the Division of Neurosciences, School of Biological Sciences, and University of Manchester Medical, School, UK. February - May 1993, March - June 1994, April - July, 1995
3. Overseas Research Studentship (ORS) Award (UK) tenable at the University of Manchester, 1988 - 1990
4. University of Manchester Graduate Studentship, 1987-1990
5. Best Junior Doctor of KATH, 1986
6. Captain, School of Medical Sciences Football Team, 1978 - 1981
7. Captain, School of Medical Sciences Table Tennis Team, 1978-1981
8. Best Student in Biology and Chemistry: Mfantsipim School, Lower Sixth Form, 1975

## FUND RAISING ACTIVITIES/RESEARCH GRANTS

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| Research is a vital tool for development, and the ability to source for research funds is vital in the growth of any university. My ability to help source for funding to enhance both the development of physical infrastructure and human resource capacity is evidenced by the level of funding which I have been able to attract over the years. The list below is testament to my success at attracting funding both to conduct research and to improve physical infrastructure. |

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|  | **FUNDING AGENCY** | **AMOUNT** |
| a. | **National Institutes of Health (NIH) sponsored Projects. Funding for collaborative research in the patho-physiology of malaria and infrastructure support** |  |
|  | * Malaria Associated Lactic Acidosis Clinical trial: between 3 sites
* The Severe Malaria in African Children network: to Kumasi
* The Ocular Fundus in Malaria Study: (for 3 sites)
 | $5,000,000$ 255,000$2,491,532 |
| b. | **MalariaGEN Consortium Genetic study. Funding from the Gates Foundation through collaboration with Oxford University to study the genetics of malaria immunity**  | $ 261,265 |
| c. | **Gates Reproductive Health Project. Funding from the Gates Foundation through The Gates Institute at Johns Hopkins University** | $1,100,000 |
| d. | **MVI GSK Malaria Vaccine Study. The following amounts for the various phases of the study** |  |
|  | * MAL 047. Phase II
* MAL 055 pre-Phase III
* MAL 55 Phase III
* Malaria transmission Intensity
* MAL 063 Phase III
 | $1,827,690 $ 450,782$5,911,553$ 47,153$2,500,000 |
| e. | **Malaria Clinical Trials Alliance (MCTA)*.*  Funding for lab Equipment and a building to serve as a research centre** | $ 524,000 |
| f. | **World Health Organization Study 15. To research the effect of rectal artesunate on childhood malaria*.***  | $ 285,000 |
| g. | **Teaching and Learning Innovative Fund (TALIF), to improve ICT infrastructure SMS, to enhance teaching and learning.**  | $ 197,000 |
| h. | **Netherlands Organization for internal Cooperation in Higher Education (NUFFIC) NPT Grant for a programme in disability** | ∈1,976,000 |
| i. | **EDCTP Clinical Trials Grant for “Artesunate for severe malaria in African Children”** | ∈ 590,000 |
| j. | **Ghana Re-Insurance: Support for SMS** (Annual support) | GH¢ 8000  |
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|  | **INFRASTRUCTURE DEVELOPMENT** |  |
| a. | **Three Computer labs for SMS** |  |
| b. | **“GET fund” funded Hostel for Clinical Students in KATH** |  |
| c. | **3 buses for SMS** |  |
| d. | **A Hostel at Juaben, Ashanti, for use by Department of Community Post Graduate Students** |  |
| e. | **A Clinical Research Centre at Agogo, Ashanti** |  |
|  f. | **A Clinical Laboratory at Department of Child Health, KATH** |  |

## 8. MEETINGS/WORKSHOPS/SEMINARS ATTENDED

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| In order to be abreast with current trends in education, research and teaching, it is imperative that a leader should be able to dialogue at various times with his peers. To be able to attract funding for teaching and research, it is also very important to be part of various academic networks. This is made possible largely through participation in various national and international meetings, workshops and seminars. The following, which I have attended over the years, have contributed to my having contacts the in Ghana and abroad, that are needed to source for funding.  |

1. MalariGEN Consortium meeting UK on the 5-8th June 2013. in Hinxton, Cambridgeshire
2. MVI Financial Workshop planned for Tuesday and Wednesday, May 19th to May 25th 2013. Cape Town
3. EDCTP sponsored Artesunate Study and a MMV organized Expert Group Meeting 18-19 March 2013, Vienna
4. Building Stronger Universities, partners meeting. 4th -7th of March 2013, Copenhagen.
5. 61st Annual meeting of the American Society for Tropical Medicine and Hygiene. 11th - 16th of November 2012. Atlanta,
6. Building Stronger Universities, partners meeting 26th Of August -1st September 2012 in Copenhagen
7. Malaria Capacity Development Consortium (MCDC) at the Emory Conference Centre Hotel, from on the 9th - 10th of November 2012. Atlanta
8. Bill & Melinda Gates Foundation cordially invites you to attend the Global Health Product Development Forum 2012, May 1-3 at the Grand Hyatt in Seattle
9. European Parliament World Malaria Day Working Lunch, Sustain the Gains, Save Lives, April 25 Brussels Belgium
10. 60th Annual meeting of the American Society for Tropical Medicine and Hygiene. 4th to the 9th of December 2011 Philadelphia, USA.
11. WHO MALVAC and JTEG meetings on malaria vaccine development. I will be away from the 21-22 201 Geneva.
12. MalariaGEN Network Governance Committee Meeting, 10-11 June 2011 Hinxton UK
13. Medicines in Malaria Ventures (MMV) Pediatric Clinical Strategy Discussion – 1st June 2011 - Dar Es Salaam.
14. Meeting on the EDCTP "Artesunate for severe malaria in African children" trial, April 19-20 April 2011  in the Vienna School of Clinical Research
15. 9th Annual African Healthcare Summit: April 15-17 2011, Atlanta, Georgia
16. Investigators meeting for the RTS,S MAL-055, March 15-17, 2011, Nairobi, Kenya
17. Malaria Clinical Trial Alliance (MCTA) Annual General Meeting, January 2011, Golden Tulip Hotel, Accra, Ghana
18. Meeting of the Malaria Capacity Development Consortium of the London School of Hygiene & Tropical Medicine and Partners, January 2011, Mensvic Grand Hotel, Accra, Ghana
19. 59th Annual Meeting of the American Society of Tropical Medicine and Hygiene, November 2010, Atlanta Marriot Marquis, USA
20. Briefings on Capitol Hill, to highlight the progress of the RTS,S malaria vaccine candidate October, 2010, Washington DC, USA
21. 2nd International Malaria Vaccines for the World Conference, October 2010, Kellog Conference Centre, Gallaudet University, Washington DC, USA
22. The 26th International Paediatric Association Congress of Pediatricians, August 2010 Sandton, South Africa
23. RTSS MVI/GSK Steering Committee Meeting. July 8 2010, PATH Office, Ferney-Voltaire, France
24. Update meeting on RTS,S/AS01 Malaria Vaccine, July 2010, WHO Headquarters Geneva, Switzerland
25. Ghana-Michigan CHARTER Research Proposal Writing Workshop June 2010, Elmina Beach Hotel, Tulip Hotel, Kumasi, Ghana
26. Post Approval Program meeting for the RTS, S malaria vaccine candidate, March, 2010, PATH Office, Ferney-Voltaire, France
27. Malaria Clinical Trials Alliance (MCTA) Annual General Meeting, January 2010, Holiday Resort Maputo, Mozambique
28. Clinical Trials Partnership Committee (CTPC) Meeting of the RTSS vaccine group, November 2009, Sarova Panafric Hotel, Nairobi, Kenya
29. Ghana-Michigan CHARTER Research Proposal Writing Workshop August 2009 Golden Tulip Hotel, Kumasi, Ghana
30. European Developing Countries Clinical Trials Partnership (EDCTP) "Artesunate for severe malaria in African children" trial, May 2009, Vienna School of Clinical Research, Vienna, Austria
31. Malaria Clinical Trials Alliance (MCTA) Annual General Meeting, January 2009, Holiday Resort Bagamoyo, Tanzania
32. Gates Institute Global Partners Meeting. October 2008, Nanjing, China
33. Investigator Meeting sponsored by the PATH Malaria Vaccine Initiative (MVI) in collaboration with GlaxoSmithKline Biologicals of Rixensart, September - October 2008, Bedford Hotel Brussels, Belgium
34. 57th Annual Meeting of the American Society for Tropical Medicine and Hygiene. December 2008, Sheraton New Orleans, Louisiana, USA
35. Data and Safety Monitoring Board (DSMB) for the Rotavirus Vaccine, November 2008. Philadelphia Marriott West, USA
36. Investigators’ Meeting sponsored by the PATH Malaria Vaccine Initiative (MVI) in collaboration with GlaxoSmithKline Biologicals of Rixensart, Belgium, June 2008, Holiday Inn Central Brussels, Belgium
37. 36th Annual Conference of American Association of Physician Assistants, May 2008. San Antonio, Texas, USA
38. Data and Safety Monitoring Board (DSMB) for the Rotavirus Vaccine Meeting. April 2008. Grand Hyatt Seattle, Seattle, Washington, USA
39. Data and Safety Monitoring Board (DSMB) for the Rotavirus Vaccine Meeting. October 2007. Hilton Arc de Triomphe, Paris, France
40. Clinical Trials Partnership Committee (CTPC) Meeting of the RTSS vaccine trial,October 2008. Holiday Inn, Accra, Ghana
41. Malaria Clinical Trials Alliance (MCTA) Annual General Meeting for `site leaders meeting, January 2008 in Bagamoyo, Tanzania
42. Clinical Trials Partnership Committee (CTPC) Meeting of the RTSS Vaccine Trial, January, 2008, Sheraton Brussels Hotel, Brussels, Belgium
43. Welcome Trust conference on Genomic Epidemiology of Malaria, June 2008. Welcome Trust Conference Centre, Hinxton, Cambridgeshire, UK
44. 2nd MalariaGEN Network Meeting, June 2007, Welcome Trust Conference Centre, Hinxton, Cambridgeshire, UK
45. A member of a site visit team to the Faculty of Medicine, Addis Ababa University as part of a Gates Institute for Population and Reproductive Health Programme, December 2007
46. Scientific Session and the General Assembly of the African Malaria Network Trust (AMANET), February - March 2007
47. WHO Artesunate Review Panel Meeting. March 2006. WHO, Geneva, Switzerland
48. The 4th International Public Health Workshop organized by the Department of Health, Taiwan, October 2004, Taipei, Taiwan
49. Meeting of the WHO Endpoint Review Committee on Study 13. A randomised, placebo controlled study in Ghana, Tanzania & Bangladesh in which non-per-os patients have been given a single suppository and referred to the nearest hospital, April 2004. Oxford University, Oxford, UK
50. 3rd Annual Partners Meeting, Gates Institute, March 29 - April 4 2004, Boston, MA, USA Leadership forum
51. Workshop on human genome technologies for clinical and epidemiological research on malaria, January 2004. Noguchi Memorial Institute for Medical Research, Legon, Accra, Ghana
52. 2nd Annual Partners Meeting, Gates Institute,December 2003, Baltimore, MD, USA. Leadership Forum: Developing the Next Generation of Family Planning and Reproductive Health Service Providers: Trends and Issues in Workforce Development
53. 1st Annual Partners Meeting, Gates Institute, December 2002, Baltimore, MD, USA Leadership Forum. Building Leading Science and Training Programmes in Population and Reproductive Health
54. Workshop on Health Writing, May 2001. ENT Auditorium. KATH. Convened by BMJ West African edition, UG College of Health Sciences, KNUST School of Medical Sciences
55. Ethical aspects of clinical research in developing countries”, March 2001. Mt. Soche Hotel in Blantyre, Malawi. Sponsored by the NIAID Parasitology and International Programmes Branch and the NIH Bio-ethics Department
56. Ethical Issues in International Health Research, July 2000. Zimbali Lodge, Kwazulu Natal. South Africa. An interactive seminar designed to explore the ethical dimensions of international health research. Co-sponsored by the African Centre for Population Studies and Reproductive Health, Harvard School of Public Health, South African Medical Research Council, Tuft University School of Medicine and the University of Natal, South Africa
57. Meeting of the SMAC Network, March 1999. Durban, South Africa (Third Meeting)
58. Workshop on “Research on tropical Diseases and their Control: From fundamental research to the planning of malaria control trials”, April 1999. Universita Degli Studi di Camerino, Italy
59. Meeting of the Network for Study of Severe Malaria in African Children (SMAC), December 1997. Miami Beach, Florida USA (First Meeting).
60. National Consultative Meeting: Strengthening research in support of Health reforms in Ghana, October 1998. North Ridge Hotel, Accra, Ghana
61. Seventh annual meeting of the NIAID, Centres for Tropical Disease Research. May 1998. Lister Hill Auditorium, Bethesda Maryland, USA
62. Workshop on ‘Problem Solving for Better Health, February 1997, Kumasi. Organized by the Dreyfus Health Foundation
63. Workshop and Training Course, Teaching Physiology, July 1997. St. Petersburg-Repino, Russia. Organized by the Commission on Teaching of Physiology, International Union of Physiological Sciences
64. Sixth Annual Meeting of the National Institute of Allergy & Infectious Disease (NIAID) Centres for Tropical Disease Research, May 1997. Lister Hill Auditorium, Bethesda Maryland, USA
65. Workshop on Strengthening Research in Support of Changes in the Health Sector, November 1997. Novotel, Accra, Ghana
66. Steering and Planning Committee of the DCA/MALA clinical trial meeting.
* First Meeting- January 1997. Solar Building, NIAID, Maryland, USA
* Second Meeting, July 1997. Royal College of Medicine, Building, London, UK
* Third meeting, July 1998. Solar Building, NIAID Maryland, USA

## 9. UNIVERSITIES WHERE I HAVE HELPED ESTABLISH LINKS FOR SMS.

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| My association with collaborators in sister universities helped in the enrichment of programmes at SMS. These associations have yielded research grant partnerships, support for our research programmes at the masters and PhD level and support for teaching of under graduate and postgraduate programmes. The collaborations have also encouraged student and faculty exchange. |

1. **University of Utah School of Medicine, Utah USA**: Research, Teaching undergraduate and post graduate students, External Examiners, Sociology and Social Work Programme, Water and Sanitation Programme with College of Engineering
2. **Morehouse School of Medicine, Atlanta GA, USA:** Teaching and Research Support in SMS and other faculties in KNUST, Student exchange programme
3. **Michigan State University, Lansing MI, USA:** Research
4. **University of Michigan, Ann Arbor MI, USA:** Research and Human Resource Development
5. **University of Virginia Medical School, Charlottesville VA, USA**: Research Fellowship Programme to train masters students
6. **Gates Institute, Johns Hopkins University, Baltimore, MD, USA**: Support to establish Reproductive Health Masters Programme. Student and Faculty Research, ICT, Infrastructural Support, Exchange Programmes, Collaborative Research
7. **University of Alabama in Birmingham, AL, USA**: Research, Support for Nursing Programme and mentoring students
8. **Liverpool School of Hygiene and Tropical Medicine, UK:** Support for the Diploma in Project Management and Design programme of KATH
9. **Oxford University, UK:** Research and Scholarship for Student Electives
10. **University of Westminster, UK**: Support for a PhD programme
11. **London School of Hygiene & Tropical Medicine: Malaria Capacity Development Consortium.** Support for PhD programme and Research
12. **HogeSchool Leiden, Netherland**s Disability Project

**10. PUBLICATIONS**

### 10A. JOURNAL PUBLICATIONS

1. Thye T, Evans JA, Ruge G, Loag W, Ansong D, **Agbenyega T**, Horstmann RD, May J, Schuldt K. (2021) Human genetic variant E756del in the ion channel PIEZO1 not associated with protection from severe malaria in a large Ghanaian study. J Hum Genet. 2021 Jul 7. doi: 10.1038/s10038-021-00958-2. Online ahead of print. PMID: 34230590
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3. Postels DG, Osei-Tutu L, Seydel KB, Xu Q, Li C, Taylor TE, John CC, Mallewa M, Solomon T, Agbenyega T, Ansong D, Opoka RO, Khan LM, Leon KE, DeRisi JL, Langelier C, Wilson MR (2020). . Central Nervous System Virus Infection in African Children with Cerebral Malaria. Am J Trop Med Hyg. Apr 27. doi: 10.4269/ajtmh.19-0962. Online ahead of print.PMID: 32342847
4. Asante KP, Ansong D, Kaali S, Adjei S, Lievens M, Nana Badu L, Agyapong Darko P, Boakye Yiadom Buabeng P, Boahen O, Maria Rettig T, Agutu C, Benard Ekow Harrison S, Ntiamoah Y, Adomako Anim J, Adeniji E, Agordo Dornudo A, Gvozdenovic E, Dosoo D, Sambian D, Owusu-Boateng H, Ato Wilson E, Prempeh F, Vandoolaeghe P, Schuerman L, Owusu-Agyei S, **Agbenyega** T, Ofori-Anyinam O (2020). Immunogenicity and safety of the RTS,S/AS01 malaria vaccine co-administered with measles, rubella and yellow fever vaccines in Ghanaian children: A phase IIIb, multi-center, non-inferiority, randomized, open, controlled trial. Vaccine. Apr 16;38 (18):3411-3421.
5. Valéa I, Adjei S, Usuf E, Traore O, Ansong D, Tinto H, Owusu Boateng H, Some AM, Buabeng P, Vekemans J, Kotey A, Vandoolaeghe P, Cullinane M, Traskine M, Ouedraogo F, Sambian D, Lievens M, Tahita MC, Jongert E, Lompo P, Idriss A, Borys D, Ouedraogo S, Prempeh F, Schuerman L, Sorgho H, **Agbenyega T** (2020). Long-term immunogenicity and immune memory response to the hepatitis B antigen in the RTS,S/AS01<sub>E</sub> malaria vaccine in African children: a randomized trial. Hum Vaccin Immunother. 2020 Jan 17:1-7
6. Otieno L, Guerra Mendoza Y, Adjei S, **Agbenyega T**, Agnandji ST, Aide P, Akoo P, Ansong D, Asante KP, Berkley JA, Gesase S, Hamel MJ, Hoffman I, Kaali S, Kamthunzi P, Kariuki S, Kremsner P, Lanaspa M, Lell B, Lievens M, Lusingu J, Malabeja A, Masoud NS, Mtoro AT, Njuguna P, Ofori-Anyinam O, Otieno GA, Otieno W, Owusu-Agyei S, Schuerman L, Sorgho H, Tanner M, Tinto H, Valea I, Vandoolaeghe P, Sacarlal J, Oneko M. (2020) Safety and immunogenicity of the RTS,S/AS01 malaria vaccine in infants and children identified as HIV-infected during a randomized trial in sub-Saharan Africa. Vaccine. Volume 38, Issue 4, 22 January 2020, Pages 897-906
7. **Malaria Genomic Epidemiology Network**. (2019). Insights into malaria susceptibility using genome-wide data on 17,000 individuals from Africa, Asia and Oceania. Nat Commun. Dec 16;10(1):5732.
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9. Velavan TP, Nderu D, **Agbenyega T**, Ntoumi F, Kremsner PG. (2019) An alternative dogma on reduced artemisinin susceptibility: A new shadow from east to west. Proc Natl Acad Sci U S A. Jun 25;116(26):12611-12612.

# [Yolanda Guerra Mendoza](https://www.tandfonline.com/author/Guerra%2BMendoza%2C%2BYolanda),  [Elodie Garric](https://www.tandfonline.com/author/Garric%2C%2BElodie), [Amanda Leach](https://www.tandfonline.com/author/Leach%2C%2BAmanda), [Marc Lievens](https://www.tandfonline.com/author/Lievens%2C%2BMarc), [Opokua Ofori-Anyinam](https://www.tandfonline.com/author/Ofori-Anyinam%2C%2BOpokua), [Jean-Yves Pirçon](https://www.tandfonline.com/author/Pir%C3%A7on%2C%2BJean-Yves), [Jens-Ulrich Stegmann](https://www.tandfonline.com/author/Stegmann%2C%2BJens-Ulrich), [Pascale Vandoolaeghe](https://www.tandfonline.com/author/Vandoolaeghe%2C%2BPascale), [Lucas Otieno](https://www.tandfonline.com/author/Otieno%2C%2BLucas), [Walter Otieno](https://www.tandfonline.com/author/Otieno%2C%2BWalter), [Seth Owusu-Agyei](https://www.tandfonline.com/author/Owusu-Agyei%2C%2BSeth), [Jahit Sacarlal](https://www.tandfonline.com/author/Sacarlal%2C%2BJahit)  [Nahya Salim Masoud](https://www.tandfonline.com/author/Masoud%2C%2BNahya%2BSalim)  [Hermann Sorgho](https://www.tandfonline.com/author/Sorgho%2C%2BHermann), [Marcel Tanner](https://www.tandfonline.com/author/Tanner%2C%2BMarcel), [Halidou Tinto](https://www.tandfonline.com/author/Tinto%2C%2BHalidou), [Innocent Valea](https://www.tandfonline.com/author/Valea%2C%2BInnocent), [Ali Takadir Mtoro](https://www.tandfonline.com/author/Mtoro%2C%2BAli%2BTakadir), [Patricia Njuguna](https://www.tandfonline.com/author/Njuguna%2C%2BPatricia), [Martina Oneko](https://www.tandfonline.com/author/Oneko%2C%2BMartina) , [Godfrey Allan Otieno](https://www.tandfonline.com/author/Otieno%2C%2BGodfrey%2BAllan), [Kephas Otieno](https://www.tandfonline.com/author/Otieno%2C%2BKephas), [Samwel Gesase](https://www.tandfonline.com/author/Gesase%2C%2BSamwel), [Mary J Hamel](https://www.tandfonline.com/author/Hamel%2C%2BMary%2BJ), [Irving Hoffman](https://www.tandfonline.com/author/Hoffman%2C%2BIrving), [Seyram Kaali](https://www.tandfonline.com/author/Kaali%2C%2BSeyram) , [Portia Kamthunzi](https://www.tandfonline.com/author/Kamthunzi%2C%2BPortia), [Peter Kremsner](https://www.tandfonline.com/author/Kremsner%2C%2BPeter), [Miguel Lanaspa](https://www.tandfonline.com/author/Lanaspa%2C%2BMiguel), [Bertrand Lell](https://www.tandfonline.com/author/Lell%2C%2BBertrand), [John Lusingu](https://www.tandfonline.com/author/Lusingu%2C%2BJohn) , [Anangisye Malabeja](https://www.tandfonline.com/author/Malabeja%2C%2BAnangisye), [Pedro Aide](https://www.tandfonline.com/author/Aide%2C%2BPedro) , [Pauline Akoo](https://www.tandfonline.com/author/Akoo%2C%2BPauline), [Daniel Ansong](https://www.tandfonline.com/author/Ansong%2C%2BDaniel), [Kwaku Poku Asante](https://www.tandfonline.com/author/Asante%2C%2BKwaku%2BPoku), [James A Berkley](https://www.tandfonline.com/author/Berkley%2C%2BJames%2BA), [Samuel Adjei](https://www.tandfonline.com/author/Adjei%2C%2BSamuel), [Tsiri Agbenyega](https://www.tandfonline.com/author/Agbenyega%2C%2BTsiri), [Selidji Todagbe Agnandji](https://www.tandfonline.com/author/Agnandji%2C%2BSelidji%2BTodagbe) & [Lode Schuerman](https://www.tandfonline.com/author/Schuerman%2C%2BLode) (2019). Safety profile of the RTS,S/AS01 malaria vaccine in infants and children: additional data from a phase III randomized controlled trial in sub-Saharan Africa. Hum Vaccin Immunother. Apr 23:1-13

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3. Early AM, Lievens M, MacInnis BL, Ockenhouse CF, Volkman SK, Adjei S, **Agbenyega T**, Ansong D, Gondi S, Greenwood B, Hamel M, Odero C, Otieno K, Otieno W, Owusu-Agyei S, Asante KP, Sorgho H, Tina L, Tinto H, Valea I, Wirth DF, Neafsey DE. Host-mediated selection impacts the diversity of Plasmodium falciparum antigens within infections. Nat Commun. 2018 Apr 11;9 (1):1381
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10. Clarke GM, Rockett K, Kivinen K, Hubbart C, Jeffreys AE, Rowlands K, Jallow M, Conway DJ, Bojang KA, Pinder M, Usen S, Sisay-Joof F, Sirugo G, Toure O, Thera MA, Konate S, Sissoko S, Niangaly A, Poudiougou B, Mangano VD, Bougouma EC, Sirima SB, Modiano D, Amenga-Etego LN, Ghansah A, Koram KA, Wilson MD, Enimil A, Evans J, Amodu OK, Olaniyan S, Apinjoh T, Mugri R, Ndi A, Ndila CM, Uyoga S, Macharia A, Peshu N, Williams TN, Manjurano A, Sepúlveda N, Clark TG, Riley E, Drakeley C, Reyburn H, Nyirongo V, Kachala D, Molyneux M, Dunstan SJ, Phu NH, Quyen NN, Thai CQ, Hien TT, Manning L, Laman M, Siba P, Karunajeewa H, Allen S, Allen A, Davis TM, Michon P, Mueller I, Molloy SF, Campino S, Kerasidou A, Cornelius VJ, Hart L, Shah SS, Band G, Spencer CC, **Agbenyega T**, Achidi E, Doumbo OK, Farrar J, Marsh K, Taylor T, Kwiatkowski DP; MalariaGEN Consortium.(2017) Characterisation of the opposing effects of G6PD deficiency on cerebral malaria and severe malarial anaemia. Elife. Jan 9;6. pii: e15085. doi: 10.7554/eLife.15085.
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1. Computer Literate (advanced).