CURRICULUM VITAE

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Civil status

Born on February 13, 1947 in Banso, Bui Division, North West Region, Cameroon
Married, Mother of four children with three children

Introduction

I am a Cameroonian scientist and Emeritus Professor of Immunology and Parasitology at the University of Yaounde I. My research interests encompass Immunology of parasitic infections and clinical trials, particularly Malaria. I have keen interest in Global Health, mentoring young female scientists. I currently serve as Board Chair of the Cameroon Medical Research Institute IMPM, Vice Chair of the Scientific Committee of our first lady's research institute CIRCB, executive Director, Cameroon Coalition against malaria and Chair of the Multilateral Initiative in Malaria (MIM)/MIM society Secretariat. I continue to serve or have served as a consultant on many committees. for the World Health Organization (WHO) including Malaria Policy and Advisory Committee (MPAC), Chair of the African Regional Commission for the Certification of the Eradication of Poliomyelitis (ARCC), member of the Global Certification Commission (GCC), member of the IHR WHO Emergency Committee for Polio Eradication and for COVID-19, member of the Malaria Treatment Guidelines Committee. Was member and Chair: African Advisory Committee for Health Research (ACHR, WHO/AFRO), member of the Global ACHR. I was vice chair of the first Technical Evaluation Reference Group TERG of the Global Fund. I am co-chair of Harvard re-thinking Malaria and was co-chair of the Committee that developed the Framework for equitable distribution of malaria vaccine with limited supply. I am founder and President of the HIGHER WOMEN CONSORTIUM CAMEROON

Education:

University

2014: Honorary Degree; Doctor HONORIS CAUSA, University of Ghana, Legon
1975-1979: Ph.D. Microbiology/Immunology, University of Montreal, Canada
1969-1970: M.Sc. Zoology (thesis in molecular parasitology), University of Illinois, Champaign-Urbana, USA
1966-1969: B.Sc., St. Mary-of-the-Woods College, Indiana, USA

Positions Occupied

1981-1985: **Senior Researcher**, Head of Parasitology Section, Institute of Medical Research and the Studies of Medicinal Plants
1985-1986: **Lecturer**, Faculty of Medicine and Biomedical Sciences, University of Yaoundé 1 (UYI), Cameroon

1986-1999: **Senior Lecturer**, Faculty of Medicine and Biomedical Sciences, UYI, Cameroon
1999-2005: **Associate Professor**, Faculty of Medicine and Biomedical Sciences, UYI, Cameroon
1994-2008: **Adjunct Research Professor**, Department of Biology, Georgetown University, USA
2005-2013: **Professor**, and Head of Department of Microbiology, Hematology, Immunology and Infectious Disease, Faculty of Medicine and Biomedical Sciences, UYI, Cameroon; Retired from teaching, now an Emeritus Professor

2005-2013: **Director**, Biotechnology Center, University of Yaounde I, Cameroon
1985-present: Research Professor, Immunology Laboratory, Biotechnology Centre, University of Yaoundé 1, Cameroon
1990-present: **Cameroon Coordinator,** National Institute of Health (NIH), USA funded projects:
ICIDR, HIRE, IPTp Malaria Projects and Global infectious Diseases Training program.
These projects are collaborative studies conducted by scientists at the University of Yaoundé I and those at Georgetown University, USA and now at the University of Hawaii, USA led by Pr. Diane Taylor. This collaboration began in 1990 through a PSTC (USAID) grant on Malaria during pregnancy. This initial grant was then followed by

two NIH grants: the ICIDR project from 1994-1999 on the Acquisition of Immunity to malaria in Cameroon and the HIRE project (1999-2005) on Evaluating Correlates of protection in Pregnant Cameroonian women. In 2007, were again funded by NIH to evaluate "Intermittent Preventive Treatment (IPT) in pregnant women" in attending hospitals in Yaounde and two surrounding villages, from 2007 to 2012. In 2012 we were awarded a Fogarty Global Infectious Disease Training Grants to train students at the University of Hawaii and at the University of Yaounde I, for five years. Three PhDs and two Masters students got their degrees from the University of Hawaii. Many at the University of Yaoundé 1 benefited from this grant.

2002-present **Chair (PCA)**, Board of Directors, National Medical Research Institute (IMPM), Cameroon
2013-present **Vice Chair**, Scientific and Ethics committee, Chantal Biya International Reference Centre, Cameroon

National appointments by decree

Presidential Decree

2002-present: **Board Chair (PCA): Board of Directors (CONSEIL D'ADMINISTRATION),** of the Institute of Medical Research and the Studies of Medicinal Plants (IMPM), Ministry of Scientific Research Yaoundé

Ministerial/National decree

2014-present: **Chair**, Conseil Scientifique et Pedagogique du CRFD-SVSE, National appointment by the Rector of the University of Yaoundé 1, Cameroon

International Responsibilities

1980: **Member**, UNDP/WORLD BANK/WHO Special Program: Scientific Working group on Biomedical Sciences, Geneva, May 1980.
1983: **Member**, UNDP/WORLD BANK/WHO Special Program (TDR) Scientific Working Group on Filariasis, in Lille, France. Nov. 14 - 19, 1983
1997- **Member and Rapporteur**, WHO Global Commission for the certification of the eradication of Poliomyelitis GCC

1997: **Rapporteur-Immunology**, International Conference on Malaria in Africa: Challenges and Opportunities for Cooperation. January 6-9, 1997 Dakar, Senegal
1998-present: **Chairperson,** African Regional Commission for the certification of Polio Eradication (ARCC) WHO-AFRO till date
1998: **Chairperson-immunology**, Gordon Conference in Malaria, Somerville College, Oxford University, England. July 1998.
1998-2001: **Member**, Multilateral Initiative on Malaria (MIM) Steering Committee member and Scientific advisory Committee.
1998-2001: **Member**, UNDP/WORLD BANK/WHO Special Program (TDR) Research Strengthening Group (RSG)
2000-2003: **Member**, African Advisory Committee for Health Research and Development (AACHRD), WHO/AFRO. This is the committee in the African Region that advises the WHO/AFRO. Regional Director on issues of Health Research and Development
2001-2003: **Chairperson**, African Advisory Committee on Health Research and Development (AACHRD), WHO/AFRO
2001-2007: Scientific Advisory Committee (SAC), European Malaria Vaccine Initiation (EMVI)
2002-2009: **Member**, Malaria Advisory Committee, Initiative for Vaccine Research (IVR), WHO,Geneva
2002- **Member**, Steering Committee, African Health Research Forum. This forum was launched in Arusha, Tanzania
2003-2008: **Member**, WHO Expert Advisory Panel on Health Science and Technology policy. The Global Advisory Committee on Health Research (Global ACHR) WHO Geneva
2004-2009: **Member and Vice Chair**, Technical Evaluation Reference Group (TERG), Global FUND for the fight against HIV/AIDS, Malaria and Tuberculosis
2004: **Member**, *Conseil d'orientation Scientifique de l'institut Pasteur de Dakar,* Senegal
2006-2010: **Board Member**, African Malaria Network Trust (AMANET), Tanzania
2009- **Member**, steering committee, Global Health Policy and Health Systems Research Programme, Netherlands Organization for Scientific Research
2006-2012 **Member**, Scientific and Ethics committee, Chantal Biya International Reference Centre, CIRCB, Cameroon.

2012- **Vice Chair**, Scientific Committee, CIRCB, Cameroon
2011- **Member**, Malaria Policy and Advisory Committee (MPAC), Global Malaria Program, World Health Organization (WHO)
2010- **Chair**, Multilateral Initiative on Malaria (MIM) Secretariat, Biotechnology Center, University of Yaoundé I, Cameroon.
2013- **Member**, IHR Expert Advisory committee on Polio eradication. This committee meets with DG/WHO and advices on polio eradication strategy.
2015- **Member**, Scientific Advisory Group (SAG), for Ebola Vaccine trials in Guinea
2015- **Member**, Independent Advisory Group (IAG), for, and set up by the New Regional Director for WHO/AFRO
2016: **Member**, Gairdner Foundation Global Health Award Advisory Committee
2020: **Co-Chair**: Harvard Re-thinking Malaria Working Group
2021: **Member**, IHR Expert Advisory Committee on COVID 19
2022: **Co-Chair**, Development of a Framework for equitable access to a malaria vaccine with limited supply

Professional membership and positions in societies

1992-1994: Council Member, Federation of African Immunology Societies (FAIS)
1992: Treasurer, Cameroon Society of Microbiology
1993-1997: 1st National Vice President, Catholic Women's Association (CWA), affiliated to the World Union of Catholic Women's Organization (WUCWO)
1994- 1997: Vice President, Federation of African Immunology Societies (FAIS)
1997: Rapporteur-Immunology, International Conference on Malaria in Africa: Challenges and opportunities for cooperation, Dakar, Senegal
1997-2000: President, Federation of African Immunological Societies (FAIS)
1998: Chairperson-immunology, Gordon Conference in Malaria, Somerville College, Oxford University, England
1998- Council member, International Union of Immunological Societies (IUIS)
2000: Chairperson, Organizing committee FAIS Congress, Yaounde Feb.13-18, 2000
1991-2002: Secretary, Cameroon Immunological Society.
2000- Fellow, Cameroon Academy of Sciences
2003: Plenary speaker, Federation of African Immunological Societies, Victoria Falls, Zimbabwe
2005: Member American Society of Tropical Medicine and Hygiene
2005: Chair, MIM 2005 Conference in Yaounde
2008: Speaker, Malaria Vaccine Funders Group Consultation Workshop on Rational Design of Children's Malaria Vaccine. Washington DC, Rockville, USA
2009: Plenary Speaker, 5th MIM Pan African Malaria Conference, Nairobi, Kenya
2009: Speaker, Round Table, World Health Summit, Berlin, Germany
2010: Speaker: G8 Consultative Meeting: Partnerships to Advance Health Research Capacity in Sub-Saharan Africa. US National Institutes of Health, Bethesda, Maryland
2011: Plenary Speaker, 7th European Congress on Tropical Medicine and International Health, Barcelona, Spain
2013: Chair of MIM Secretariat and organizer of MIM 2013 Conference in Durban SA
2014: Chair, Scientific Committee, Cameroon Society for Epidemiology, hosting International Epidemiological Conference
2014: Conference Speaker for 3 consecutive days as the 2014 Aggrey-Fraser-Guggisberg Memorial Lectures, University of Ghana, Legon, Accra. Received an award of *Doctor Honoris Causa*
2014: Keynote Speaker, EDCPT2 Launch, Capetown, South Africa, December 2014

Awards

National Awards

1999 ***Merit Prize in Science and Technology*** awarded by the First Lady of Cameroon on the first Special day to Honor the Cameroonian woman.
2001 '***Woman of the Community'*** awarded by the Soroptimist International Club of Yaoundé
2003 '***Chevalier de L'Ordre de la Valeur*** awarded on the occasion of the "Journee Universitaire des Sciences et de Technologie"
2004 '***La Maman de Ngali II.***' Crowned mother of Ngali II village on the occasion of the inauguration of two water

wells drilled with funds from ICIDR/HIRE malaria projects awarded by NIH. The water wells were inaugurated by the Minister of Higher Education, Prof. Maurice Tchuente

2009 '***Officier de L'Ordre de la Valeur***,' 40th Anniversary of the Faculty of Medicine, UYI, Cameroon

2018 ***Queen Mother***, Cameroon Medical Community. Awarded by the Cameroon Medical Council

2019 ***Commandeur de L'Odre de la Valeur***, Awarded by the President of the Republic of Cameroon

International Honors and Awards

2009 Invited Speaker: Fogarty International Center, The Burden of Malaria in Africa: It's Impact on Pregnant Women and their Newborns. Co speaker: Pr. Diane Taylor. In Celebration of International Women's Day

2011 Kwame Nkrumah Scientific Award for Women- Central Africa, awarded by the African Union, Addis Ababa, Ethiopia. Congratulations from President and First lady of Cameroon

2012 Cameroon Professional Society (CPS) distinguished award for excellence in the Sciences, Washington DC, USA

2014 DSc *Honoris Causa* awarded by the University of Ghana, Legon on March 29, 2014, after presenting the 2014 Aggrey-Fraser-Guggisbery Memorial Lectures

2014 Invited by the EU Commission as a keynote speaker for the Launch of EDCTP II program, Cape town, South Africa, December 2014

2015 Honorary International Fellow, American Society of Tropical Medicine and Hygiene, Atlanta, USA

2018 Heroine of Health 2018 Award, dedicated to women for their commitment and achievements in Global Health, Geneva, Switzerland

2019 Plenary at Gordon Conference: What the Malaria Community can learn from the Polio Eradication Initiative

2021 Awarded American Society of Tropical Medicine and Hygiene (ASTMH) Clara Ludlow Medal

2022 Achievement in Global Health Leadership Awarded by African Union and Africa CDC.

2023 Appointed Chair of the Independent Review Community of the GAVI Alliance.
The Virchow Prize for Global Health, equivalent of Nobel Prize

2024 L'Oréal-UNESCO Prize for Women in Science: Africa and the States

Research interests

- ✓ *Onchocerca volvulus*: long term culture of larval stages, excretory secretory products, immunity to and immunopathology, use of mice as experimental animals
- ✓ *T. gambiense*: Cardiovascular and Immunological studies
- ✓ Immune response to vaccine candidate antigens of *Plasmodium falciparum* in Cameroonians
- ✓ Immunology of Malaria in Pregnancy, Placenta Malaria, Malaria in Neonates
- ✓ Acquisition of Immunity to Malaria in Cameroon, particularly in pregnant women and in neonates
- ✓ Impact of Intermittent Preventive Treatment (IPTp) on malaria during pregnancy in Cameroon
- ✓ Antibodies to VAR2CSA in pregnant women
- ✓ Immunology of malaria *in utero* and in the newborn

Research experience and support

Completed Research experience and support

University of Illinois;
M.Sc. Thesis: "Studies on the *in vivo* dynamics of erythrocyte invasion by Plasmodia" 1969-1970 ;
Supervisor Prof. Paul Silvermann

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University of Montreal
PhD Thesis: "Murine Plasmodia: Chronic, virulent and self-limiting infections"; 1974 – 1979:

Supervisor: Prof. Pierre Viens

WHO/TDR/CUSS Institutional Strengthening Grant
1985-1991: Immunology of Onchocerciasis
Role**: Scientist** on the Project

USAID grant
1991-1994
Malaria in Pregnancy project
Role: **Co-Principal Investigator**

NIH/NIAID grant # 1UO1-AI35839
1994-2000
ICIDR Malaria Project. The effect of Malaria on Fetal Development. Project #1 (Leke, Taylor)
Role: **Co-Principal Investigator**

NIH/NIAID grant#
1999-2005
HIRE Malaria Project:
Role: **Co-Principal Investigator**

NIH/FIC grant # D43TW01264
1999-2006
International Maternal and Child Health Training program. Training of Cameroonian Scientists in Maternal-Child Health.
Role: **Co-Principal Investigator**

EDCTP I/CANTAM
2008-2013
The Central Africa Network on Tuberculosis, HIV/AIDS and Malaria (CANTAM) assembles 4 central Africa countries (Cameroon, R. Congo, Gabon and R.D. Congo) for capacity building in the conduct of clinical trials. The network is funded by the European and Developing Countries Clinical Trial Partnership (EDCTP) and aims to: 1) develop human resources in the skills required to conduct safe clinical trials including GCP/GLP training and preparation and development of clinical and standardized protocols from recruitment of participants to the conduct of clinical trials; 2) strengthen laboratories to be able to perform relevant tests for HIV/AIDS and malaria clinical research; 3) strengthen ethical review boards and regulatory authorities in needy collaborating sites and establish effective community liaison at each site and identify new study cohorts in villages and towns for future clinical trials on HIV/AIDS and malaria.
Role: **Investigator** responsible for Malaria aspects in CANTAM

Bill and Melinda Gates Foundation (BMGF) grant
2006-2013
Awarded to the consortium on Malaria in Pregnancy (MiP): PI G. Hill and F. Ter Kuile.
Role: **Subcontract to Pr. Rose Leke** and DW Taylor for workshop on Placental Malaria in 2008 and use of sonography to monitor effect of malaria on fetal growth

NIH/NIAID RO1 grant# AI071160
2007-2014
Malaria Immunity in Pregnant Cameroonian Women. IPT Malaria Project
Role: **Co-Principal Investigator**

Bill and Melinda Gates Foundation grant#
Jun-Dec 2013
To provide travel awards to young malaria endemic country researchers attending the 6th MIM Pan African Malaria Conference in Durban, South Africa.
Role: **Chair of the MIM Secretariat,** Principal Investigator

NIH/FIC Grant# D43TW009074
2012-2017
Global Infectious Disease Training grant. The purpose of this training program is to train young Cameroonian scientists acquire

the skills necessary for conducting research on infectious diseases.
Role: **Co-Principal Investigator**

NIMHHD/NIH grant# 1T37MD008636-01
2013-2018
International Biomedical Research Training for Hawaiian & Pacific Island Students. PI: V. Nerurkar and D.W. Taylor. Goal of the grant is to provide an opportunity for undergraduate and graduate students with ethnic backgrounds under-represented in the biomedical sciences to spend one year conducting research at the University of Hawaii, with an eight-week research experience during the summer in either Cameroon or Thailand.
Role: **Coordinator** of eight-week research experience of students in Cameroon

NIH/NIAID R21 grant# AI109449-01A1
2014-2016
Immunity to Placenta Malaria: Persistence of Antibodies to VAR2CSA. PI: R. LEKE (Cameroon), DW Taylor (USA), F. Fowkes (Australia). Goal: Determine how long antibodies and memory B cells persist in Cameroonian women who 1) did not become pregnant and 2) women who became pregnant and received IPT-SP.
Role: **Co-Principal Investigator**

HIGHER Consortium

Higher **I**nstitute for **G**rowth in **HE**alth **R**esearch for Women Researchers (HIGHER Women Researchers) in Cameroon is a consortium of established Cameroonian women scientists with prominent positions in academic institutions, research organizations, government agencies and others. The consortium's mission is to support and build capacity and skills of Cameroonian women in health research careers. This consortium is currently funded by the World Health Organization's Special Programme for Research and Training in Tropical Diseases **(WHO-TDR)** and aims at supporting and encouraging the growth of women scientists through training activities supplemented by a mentor-mentee (protégé) program. The expected impact is the advancement of women in leadership roles in health research in Cameroon, which will engender additional interest by younger women in health science research.
2022:HIGHER has grown to greater heights with tremendous impact
ROLE: **Founder and Director** of HIGHER Women Researchers and Principal Investigator

Publications

Peer reviewed scientific publications by year

1979

1. **Leke R.G.**F. and Viens, P. (1979) *Plasmodium chabaudi: Infection in T. Cell deprived mice. IRCS* Medical Sciences 6: 199

1980

2. **Leke R.G.F**., Viens P., and Davies A.J.S. (1981). *Interaction between P. chabaudi and C57/B1 mice with particular reference to the immune response*. Clin. Exp. Imm. 45: 627 - 623.
3. Ngu J.L., Mate A., **Leke R.G.F**., Titanji V. (1980). *Proteinuria associated with Diethylcarbamazine*. The Lancet: 29 March, 1980

1981

4. Ngu J.L., Ndumbe P.M., Titanji V., **Leke R.G.F**. (1981). *A diagnostic skin test for Onchocerca volvulus infection*. Trop. med Parasitol. 31.
5. Ngu J.L., Akohobe G., **Leke R.G.F**., Titanji V., Asonganyi T., Ndumbe P., (1981). *A method of obtaining live microfilariae from O. volvulus nodules. Determination of optimal conditions for in vitro culture of microfilariae for the preparation of excretory/secretory products for immunodiagnosis*. Acta Tropica 38:261-266.
6. R Leke, P Viens, A J Davies. Interaction between *Plasmodium chabaudi* and C57Bl mice with particular reference to the immune response. Clinical & Experimental Immunology 10/1981; 45(3):627-32

1982

7. Titanji V.P.K., Asonganyi T., **Leke R.G.F**., Ngu J.L., (1982). *Antigens of Onchocerca volvulus: physiochemical characterisation and biological activity*. Science and Technology review;1-2: 55-61

1983

8. **Leke R.G.F**., Enyong P., Ngu J.L., (1983). *Preliminary report on studies with O. volvulus in athymic nude mice*. Rev. Science et Technique. 4-5: 115-118

1984

9. Ntone Ntone F. **Leke R.G.F**., Ngu J.L. (1984). *The humoral response of somatic antigens of Onchocerca volvulus in four strains of mice.* Annale Universitaires des Sciences de la Sante. 1:24-30.
10. Mbonifor C., **Leke R.G.F**., Asonganyi T., Ngu, Blackett K., (1984). *L'infection a T. gambiense dans la region de Bafia: etudes cardiovasculaires et immunologiques*. Bull de L'OCEAC XVe..
11. **Leke R.G.F**., Enyong P., Njine T., Ngu J.L., (1985). *Onchocerca volvulus in mice: implantation of micropore chambers containing infective larvae*. Annales Universitaire des Sciences de la Sante. 2:26-29

1985

12. Ngu J.L., Chatelanat F., **Leke R.G.F**., Ndumbe P., Youmbassi J., (1985). *Nephropathy in Cameroon: Evidence for filarial derived immune complex pathogenesis in some cases*. Clinical Nephrology 24: 128-134

1987

13. Titanji V.P.K., Mbacham W., **Leke R.G.F**., (1987). *Lectin binding properties of O. volvulus developmental stages.* Annales Universitaire des Sciences de la Sante. 4: 396-401.
14. Ngu Blackett K., **Leke R.G.F**., Asonganyi T., Mbonifor C. L. (1987) *Cardiac and Immunological findings in Trypanosoma gambiense infections*. Rev. Sc. Technique T IV N1(1-2), 67-75

1988

15. Tsala Mbala P., Blackett K., Mbonifor C., **Leke R.G.**F Etoundi J., (1988). *Atteintes functionelles et immunologiques au cours de la trypanosomiase africaine a Trypanosoma gambienese*. Bull. Soc. Path. Ex. 81: 490-501.
16. **Leke R.G.F**., Ndansi R., Singwe M., Mbakop A., Del Guidince G., Ngu J.L. (1988) *Prevalence of antibodies to the circumsporozoite protein of Plasmodium falciparum in Yaound*é. Annale Universitaire Sc. Santé. 5 (3-4) 771-772.
17. Asonganyi T., **Leke R.G.F**., Lando G., Ndumbe P., Ngu J.L. (1988) *Ocular Onchocerciasis: Humoral responses to retinal antigens in onchocerciasis patients* Ann. Univ. Sc. Sante. 5 (3-4) 727 – 736

1989

18. Mbakop A., **Leke R.G.F**., Tedong F., Ngu J.L., (1989). *Sous - populations des lymphocytes dans les nodules onchocerquiens*. Path. Biol. 37: 259-261.
19. **Leke R.G.F**., Boto W., Lando, Ngu J. L., (1989). *Immunity to Onchocerca volvulus: Serum-mediated leukocyte adherence to infective larvae in vitro*. Trop. Med. Parasitol. 40:39-4

1990

20. Ngu J. L., Tume C., Lando G., Ndumbe P., **Leke R.G.F**., Titanji V., Asonganyi T., (1989). *Comparative studies of clinical groups of patients in an onchocerciasis endemic area for evidence of immune-mediated protection*. Trop. Med. Parasitol. 40: 460-463

1992

21. **Leke R.G.F**., Ndansi R., Southerland N.J., Quakyi I.A., Taylor D.W. (1992) *Characterization of antibodies to Plasmodium falciparum in human breast milk*. Scandinavian *J. Immunology.* 36, Supply. 11:17-22. DOI:10.1111/j.1365-3083. 1992.tb01612.x
22. **Leke R.G.F**., Asonganyi T., Malongte P., Lando G., Ndumbe P., Fobi G., Mcmoli T., Nkuo-Akenji T., Tume C., Ngu J.L., (1992). *Onchocerciasis in Songdong, Cameroon*. Ann. Univ. Sc. Sante.

1993

23. Theresa Nkuo Akenji, Jane E. Deas, **Rose G. Leke**, Jacob L. Ngu (1993) - *Correlation between serum levels of antibodies to the 96-kd antigen of Plasmodium falciparum and protective immunity in Cameroon. A longitudinal study*. Am. J. Trop. Med. Hyg. 49(5), 566-573

1995

24. T. Nkuo-Akenji, J.Deas*, **R. Leke** and J. Ngu. (1995) *Patterns of Antibody Levels to the 96 tR recombinant protein of*

Plasmodium falciparum in Children over a Six-Month Period. J. Parasitol., 81(2):195-199

1997

25. **Leke R. G. F.**, Cadigan T, Mbakop A, Leke R.J.I., Hamisu A, Taylor D.W. (1997). *Evaluation of TNFα levels in the placenta of women with and without Plasmodium falciparum malaria*.

1999

26. Ngu N. Bechem, **R. F.G. Leke**, F. Tietche, Y. Zhou, M.E. Parra, and D.W. Taylor (1999). *Evaluation of a rapid test for histidine rich protein 2 for diagnosis of Plasmodium falciparum infection in Cameroonian children.* Transactions of the Royal Society of Tropical Medicine and Hygiene 01/1999; 93(1):46. DOI:10.1016/S0035-9203(99)90175-X
27. **R.F.G Leke**, R.R. Djokam, R. Mbu, R. Leke, J. Fogako, R. Megnekou, S. Metenou, G. Sama, Y. Zhou, T. Cadigan, M. Parra, and D. W. Taylor. (1999). *Detection of the Plasmodium falciparum Antigen Histidine-Rich Protein 2 in Blood of Pregnant Women: Implications for Diagnosing Placental Malaria*. J Clin Microb. 37:299

2000

28. Johnson A, **Leke R.**, Harun L, Ginsberg C, Ngogang J, Gold K, Stowers A, Saul A and I. A. Quakyi. (2000) *Interaction of HLA and Age on Antibody Levels to Plasmodium falciparum Rhoptry-Associated Proteins 1 and 2.* Infect Immun. 68(4):2231-2236
29. Ellis JM, Mack SJ, **Leke RF,** Quakyi I, Johnson AH, Hurley CK. (2000) *Diversity is demonstrated in class I HLA-A and HLA-B alleles in Cameroun, Africa: description of HLA-A*03012, *2612, 3006 and HLA-B1403, *4703*. Tissue Antigens. 56(4):291-302

30. Quakyi IA, **Leke R.G.F.**, Befidi-Mengue R, Tsafack M, Bomba-Nkolo D, Manga L, Tchinda V, Njeungue E, Kouontchou S, Fogako J, et al. (2000) *The Epidemiology of Plasmodium falciparum Malaria in two Cameroonian Villages: Simbok and Etoa*. Am. J. Trop. Med. Hyg*. 63(5,6), 222-230*

2001

31. Pimtanothail N, Katovich HC, **Leke R**, Kiltz W, and Johnson AH. (2001) *HLA-DR and –DQ Polymorphism in Cameroon*. Tissue Antigens 2001:57
32. **Leke RGF.** *The State of Immunology in Africa: HIV/AIDS and Malaria*. Guest Editorial, Current Opinion in Immunology October, 2001, 13:523-527
33. Staalsoe T, Megnekou R, Fievét N, Ricke HC, Zornig HD., **Leke** RG, Taylor DW, Deloron P, and Hviid L. (2001) *Acquisition and decay of antibodies to pregnancy-associated variant antigens on the surface of Plasmodium falciparum-infected erythrocytes that protect against placental parasitemia.* J. *Infec Dis. 184:614-26*
34. O'Neil-Dune I, Achur RN, Agbor-Enoh ST, Valiyaveettil M, Naik RS, Ockenhouse CF, Zhou A, Megnekou R, **Leke R**, Taylor DW, Gowda DC. (2001) *Gravidity-dependent production of antibodies that inhibit binding of Plasmodium falciparum-infected erythrocytes to placental chondroitin sulphate proteoglycan during pregnancy. Infect Immun. Dec; (12):7487-92*

2002

35. Zhou A, Megnekou R, Leke R, Fogako J, Metenou S, Tock B, Taylor DW, and **Leke RFG**. (2002) *Prevalence of Plasmodium falciparum infection in pregnant Cameroonian women.* Am J Trop Med Hyg. 67(6):566-570.
36. **Leke R.F.G**., Cadigan T.J., Mbu R., Leke R.I.J., Fogako J., Megnekou R., Metenou S. Sama G., Zhou Y. and Taylor D.W. (2002) *Plasmodium falciparum* infection in pregnant Cameroonian women: An assessment of changes in the placenta of low birthweight infants. Journal Cameroon Academy of Sciences. 2(supplement):203-212.
37. Ryan JR, Dave K, Collins KM, Hochberg L, Sattabongkot J, Coleman RE, Dunton RF, Bangs MJ, Mbogo CM, Cooper RD, Schoeler GB, Rubio-Palis Y, Magris M, Romer LI, Padilla N, Quakyi IA, Bigoga J, **Leke RG**, Akinpelu O, Evans B, Walsey M, Patterson P, Wirtz RA, Chan AS. (2002) *Extensive multiple test centre evaluation of the VecTest malaria antigen panel assay.* Med Vet Entomol. Sep;16(3):321-7.
38. **RFG Leke** and DW Taylor. (2002) Laboratory Methods for Studying Placental Malaria. Conference Organizers: Proceedings of the workshop on CD. [*Available upon request. Distributed at MIM in Arusha Nov 2002 by Fogarty, University of Yaoundé and Georgetown University in* 2001]

2003

39. Xi G., **Leke R.G**., Thuita L.W.., Zhou A., Leke R.J., Mbu R, and Taylor D.W. (2003) *Congenital exposure to Plasmodium falciparum antigens: prevalence and antigenic specificity of in utero-produced antimalarial immunoglobulin M antibodies.* Infect Immun. 71(3):124-26.
40. Agbor-Enoh S.T., Achur R.N., Valiyaveettil M., **Leke R**., Taylor D.W., and Gowda D.C. (2003) *Chondroitin sulfate proteoglycan expression and binding of Plasmodium falciparum-infected erythrocytes in the human placenta during*

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Contributions in books

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2. About Malaria. Journal of the Cameroon Coalition Against Malaria. Launched in 2009.
3. Guide practique de lute contre le paludisme (Guide to Malaria). (2010). Edited by **GF Rose Leke**, Wilfred F Mbacham, TN Esther Tallah. Cameroon Coalition Against Malaria.
   ISBN 978-2-296-11973-4
4. Synergies Africaines: Acteur Majeur De La Sante Publique En Afrique (2013). Malaria: an endemic disease in Africa. **Rose G.F. Leke**, Esther Talla, Wilfred Mbacham, Jude Bigoga, Pierre Ongolo-Zogo.
5. Universal Health Coverage viable options for the leaders and the community (2015). Policy Brief: Scaling up malaria control interventions in Cameroon. Wonghi JN, Ongolo-Zogo P, Tallah E, **Leke R**, Mbacham W.

Theses and Dissertations supervised/co-supervised

I have mentored, supervised/co-supervised over 80 students conducting research for a dissertation or thesis under my direction:

Medical Students (MD)

No.	*Student's Name*	*Year*	*Degree*	*Title of thesis*
Faculty of Medicine and Biomedical Sciences, University of Yaounde I, Cameroon				
1	Ntone Ntone Fritz	1982	MD	La réponse immunotaire de quatre souches de souris aux antigènes somatiques des macrofilaires d' *O. volvulus.*
2	Kollo Basile	1982	MD	Rechereche d'une association entre le porte de l'HbsAg et les nephropathies.
3	Efosi Litumbe	1983	MD	Eosinophils in filariasis
4	Ng'awono Ndzana Therese	1983	MD	Contribution a l'étude épidemiologique des étiologies virales dans les infections respiratoires de l'enfant par immunofluorescence.
5	Mbonifor Comfort Lem	1986	MD	*Trypanosoma gambiense* in the Bafia region: Cardiovascular and immunological findings
6	Melanga Blanche Philomène	1986	MD	Evolution de statut immunotaire et cardiovasculaire chez un group de trypanosomesdans le Mbam
7	Malongte Pierrre	1986	MD	Essaia *in vitro* des complexes CGP 6140 et CGP20376 sur les microfilaires et arves infectantes d' *O volvulus*
8	Tedong F.	1987	MD	immunopathologies des Lésions onchocerquiennes: nodule et dermatite . Correlation avec les donnes cliniques
9	Singwe Madeleine	1988	MD	Natural immunity to *P. falciparum* and child
10	Ndasi Regina	1988	MD	Humoral immune responses in to the CS protein in a Cameroonian population
11	Akohobe Neba Grace	1989	MD	Physico-chemical conditions associated with the in vitro survival of immature microfilariae of O. volvulus patients
12	Tapokou Youmbi Elisabeth	1993	MD	Etude épidemiologique et échographique de l'atteint hépatosplenique due a Schistosoma mansoni dans le foyer de Ouro-Tada (province de l'Extreme nord Cameroun)

13	Patrick Sylvestre Bekoule	1994	MD	Le paludisme congenital: Données parasitologiques, cliniques et épidemiologiques
14	Youbin Justin	1994	MD	Epidemiolgie du paludisme – Latent chez les enfants de 0 à 5 ans.
15	Neossi Guena Mathurin	1996	MD	dosages des Immunoglobulines E sériques totales dans l'exploration de la rhinite chronique
16	Ngu Nkafu Bechem	1996	MD	Evaluation of a rapid Immuno-chromatographic test (ICT) for the diagnosis of falciparum malaria
17	Folefack Dongmo Alain	1998	MD	Loa loa en milieu endemique palustre: dianostic, réponseanticorps spécifiques et implications des infections immunitaires.
18	Ngah Onana Rose-Huguette	1998	MD	Immunoté passivement acquise dans le paludisme à P. falciparum chez les nouveau née prématuré et à terme de la maternité principale de Yaounde
19	Tabi Tabe-Ebob	1999	MD	Human Loaisis: A double-blind, placebo controlled, clinical trial of a three day albendazole regimen
20	Sean Tabi Agbor	2000	MD	Changes in placental chondroitin sulphate proteoglycan (CSPG) and antibodies that block the binding of Plasmodium falciparum-infected erythrocytes to CSPG in the course of pregnancy
21	Tako Ayuk Ernest	2001	MD	Comparing Histidine- Rich Protein-II (HRP-II) and Plasmodium-specific lactate dehydrogenase (pLDH) based immunocapture assays for improved diagnosis of malaria in pregnancy
22	Gisele Mbonda	2001	MD	Le paludisme placentaire: Relations avec paludisme maternel, congenital et les parametres anthropométriques du nouveu né à yaounde
23	Fouda Amou'ou Genevieve	2002	MD	Placental malaria: Detection of parasites, immune cells, histological changes, and immunohistochemical changes
24	Tincho Eveline	2003	MD	Accés palustre et femmes enceimtes : Corelation clinique et paraclinique, impact sur le placenta selon le terme de l'infestation
25	Tadem Nembot Duplex Armand	2004	MD	Severe malaria in children: Correlation of TNFα, total and antimalarial IgE profiles with disease severity
26	Meli Ban'haka Hervé	2004	MD	Placental malaria: Characterization of Anti P. falciparum B-cell responses within the intervillous space of the placenta
27	Kouo Ngamby Ekedy Marquise	2004	MD	Paludisme de la grossesse : Réponse immunitaire a l'antigène du Plasmodium RESA (Ring Erythrocyte Surface Antigen)
28	Ngalame Alphonse Nyong	2005	MD	Malaria in Nyouessong nursery and primary school children: An epidemiological survey.
28	Dohvoma Viola Andin	2006	MD	Age and Malaria in Pregnancy
30	Lum Tamabang	2007	MD	Prematurity and low birth weight: placental transfer of anti-malaria and anti-tetanus antibodies
31	Kamnang Y. Brice	2008	MD	Antibody response to five malaria antigens (EBA175, AMA1, CSP, MSP142, and RESA) in children below five years of age living in Ngali II
32	Aliceres Patrick Ngatsanga Tanga	2008	MD	Analyse de la réponse post vaccinale au vaccine anti rougeoleux des enfants de 09 mois a 5 ans dans la ville de Yaounde
33	LIZA Enoh-Tanya	2009	MD	Impact of the current preventive measures on the reduction of Placental malaria and its adverse consequences in mothers and offspring at delivery at the Mfou district hospital
33	Samuel Tassi Yunga	2010	MD	Soluble Tumour Necrosis Factor-alpha receptor types 1 (sTNF-R1) and 2 (sTNF-R2) in urine: Potential biomarkers for malaria screening during pregnancy
34	Dawa Soreya Afi	2010	MD	Mutations sur les genes dihydrofolate reductase et dihydropteroate synthase du Plasmodium falciparum et resistance a la sulfadoxine pyrimethamine chez la femme enceinte dans la region du centre

35	Ndangoh Derek Ndangoh	2011	MD	Susceptibility status of An. gambiae to insecticides in the Soa Health district
36	Fossi Gacelle	2011	MD	Genetic diversity of erythrocyte binding antigen (EBA)-175, malaria vaccine candidate antigen in two malaria endemic localities in Cameroon.
37	Fossi Nadine	2011	MD	Genetic polymorphism of the malaria candidate vaccine antigen (MSP3) in two geographically regions of Cameroon
38	Cedric	2011	MD	Fréquences des mutations sur les genes dihydrofolate reductase et dihydropteroate synthase du Plasmodium falciparum et resistance a la sulfadoxine pyrimethamine chez la femme enceinte (fébrile et asymptomatique) dans la region du centre
39	Achuo Ascensius Ambe Mforteh	2012	MD	The use of IPT-SP in pregnancy: comparison of antibody levels of three malarial antigens (MSP1-42, EBA-175 and AMA-1) in two areas with different transmission rates: the case of Yaoundé and the villages of Ngali II and Ntouessong
40	Kaze Arnaud Djou	2012	MD	Polymorphisme genetique de la protein “Apical Membrane Antigen-1” de Plasmodium falciparum, candidat vaccine du paludisme dans la localite de Niete, Region du Sud-Cameroon
41	Metu Mua’be Eric Ndone	2012	MD	Use of IPT-SP: Placental transfer of antibodies to specific malarial antigens, AMA-1, EBA-175 and MSP1-42 between malaria positive and malaria negative pregnant women
42	Tambasho Afizu Chrakoh	2012	MD	The prevalence of malaria during the rainy-dry transition season in Niete, south region of Cameroon
43	Atemnkeng Njika	2013	MD	Immune responses to placental malaria vaccine candidate var2csa in Ntouessong and Ngali II school children
44	Ndzana Titus	2014	MD	A cytokine-based evaluation of T lymphocyte proliferation and differentiation into T-helper 1 and T-helper 2 subsets in patients with chronic renal failure at the Yaoundé General Hospital.
45	Ambe Lionel Neba	2014	MD	Human cord blood CXCR5+ CD4 T cells: association with in utero exposure and antibody response to Plasmodium falciparum
46	Siewe Fodjo Joseph Nelson	2014	MD	Circulating T follicular helper cells as correlates of high affinity antibody responses in malaria-experienced Cameroonian adults
47	Besong Micheal Ebangha	2015	MD	Immunological and molecular assessment of umbilical cord blood and maternal blood admixture in a group of Cameroonian neonates putatively primed in utero to Plasmodium falciparum antigens
49	Ndiabamoh Crespo’o	2017	MD	Malaria and intestinal parasites co-infection: Antibody response to malaria vaccine candidate antigens in children
50	Kehwalla Mutia	2017	MD	Persistence of Plasmodium falciparum DNA stored at room temperature for one year
51	Mengalle Britha	2017	MD	Impact of In Utero exposure to pregnancy-associated malaria on immunity to malaria vaccine candidate antigens in children

52	Ekokobe Wifried	2017	MD	Seroprevalence and Genetic Diversity of EBA-175 in the Ngali II, Ntuessong and Mfou Localities
52	Tegomoh Bryan	2017	MD	Validation of breath collection system and cloning of the ISPH Locus towards the development of a breath-based diagnostic test for malaria
53	Tsayem Idriss	2018	MD	
54	Njobe Brice	2018	MD	Molecular Markers of Plasmodium falciparum resistance to Sulfadoxine/Perymethamine in pregnant women in Yaoundé
55	Blanquale Cluade	2018	MD	Antibody response to full-length var2csa in children from Ngali II and Ntouessong villages, in the center region of Cameroon
56	Meyahnwi Didien	2018	MD	Genetic diversity and host’s immune response to Plasmodium falciparum Erythrocyte Binding Antigen (EBA)-175 in children residing in Ngali II and Mfou, Cameroon

Faculty of Medicine, Université des Montagnes, Bangante, Cameroon				
44	Mbacham Sharon	2013	MD	Evaluation of dhps and dhfr mutations in women on SP as Intermittent Preventive Therapy for malaria during Pregnancy (IPTp) in the Centre Region of Cameroon

Doctorate du 3eme Cycle/ Doctor of Philosophy (Ph.D.) Student

No.	Student's Name	Year	Degree	Title of thesis
Faculty of Science, University of Yaoundé I, Cameroon				
45	Djokam Tamo Rosine	1998 D3C	Doctora du 3eme cycle	Perspectives sur l'infection palustre : Diagnostic et impact sur l'issue de la grossesse et la chloroquino-résistance à la *Plasmodium falciparum*
46	Tchinda Matong Viviane Helene	2000	Doctora du 3eme cycle	Immune responses to malaria and measles infections in Cameroonian children: immune interaction and dysregulation
47	Rosette Megnekou	2002 D3C	Doctora du 3eme cycle	Changes in Anti-Plasmodium falciparum (Welch, 1897) cellular and humoral immune responses during pregnancy in Cameroonian women.
Faculty of Science, University of Buea, Cameroon				
48	Jude Daiga Bigoga	2004	Ph.D.	Molecular characterization of malaria vectors and transmission dynamics in the coastal area of Cameroon: Implications for vector control.
49	Kouontchou Samuel	2004	Ph.D.	The role of T cell subsets, Th1/Th2 cytokines and antibodies in the acquisition of immunity to malaria
Georgetown University, USA				
50	Metenou Simon	2006	Ph.D.	
51	Sean Tabi Agbor	2006	PhD	
52	Fouda Amou'ou Genevieve	2006	PhD	
53	Tako Ernest	2008	PhD	
Faculty of Science, University of Yaounde I, Cameroon				
54	Tchinda MH Viviane	2008	PhD	Severe malaria in Cameroonian children: Correlations between plasma levels of some immunological factors and disease severity/protection
55	Megnekou Rosette	2010	PhD	Evaluation of *Plasmodium falciparum* variant surface antigens in women and development of a mouse model for pregnancy associated malaria
56	Djontu Jean Claude	2017	PhD	Impact of *Plasmodium falciparum* infection on the oxidative status and immune response mediated by some cytokines and anti-VAR2CSA antibody in Women in residing in Yaoundé
57	Fodjo Barriere	2018	PhD	Antibody response to pregnancy malaria antigen VAR2CSA in Cameroonian children
58	Tabue Raymond	2018	PhD	Diversity of the *Anopheles fauna* and epidemiology of malaria in pyrethroid resistant zones: Case study of three health districts in the North of Cameroon.
59	Esemu Livo	2020	PhD	Insulin growth factor axis and angiogenic factors in the intervillous space and, changes in gene expression and pathways in the placenta in HIV and malaria patients
UNIVERSITY OF HAWAII, USA				
60	Samuel Tassi Yunga	2017	PhD	*In utero* B cell responses to *Plasmodium falciparum* and risk of malaria during the first year of life
61	Ngu-Njei Abanda	2017	PhD	Drug resistance in *Mycobacterium tuberculosis*: An investigation of drug transporter P-glycoprotein and an evaluation of improved diagnosis of drug-resistant tuberculosis in Cameroonian pulmonary tuberculosis patients
62	Obadia Mfuh Kenji	2017	PhD	Infectious etiologies of febrile illnesses in Cameroon

MPH Student

Université Catholique de l'Afrique Centrale, Cameroon				
63	Foka Roderique	2013	MPH	Transfer transplacentaire de L'immunoglobulin G contre deux antigens AMA 1 et MSP 1-42 chez les femmes enceintes en zone rurale et urbain à Yaounde.

DIPES II (Higher Teachers Training (ENS) - Yaounde) & DEA (University of Yaounde 1) Students

No.	Student's Name	Year	Degree	Title of thesis
64	Nkemtah Ernestine Fietsop	2000	DIPES II	Malaria prevalence in Simbok, November 2000
65	Nkengfac Bernard	2002	DEA	*Plasmodium falciparum* merozoite surface protein 1 (msp-1) gene (block 2): Individual and multiple allele infection in children in Ngali, Yaoundé
66	TAKEUNE Claude	2006	DEA DIPES II	The role of Eosinophils and Antimalarial IgE antibody in the immunity of malaria in neonates of Ngali II and Ntouessong Villages in Soa, Cameroon
67	Mbang Stephanie	2007	DEA/ DIPES II	Prevalence of malaria in neonates during their first year of life

Master Students

No.	Student's Name		Year	Title of thesis
University of Buea				
68	Jude Daiga Bigoga	1998	MSc	Human Leukocyte Antigen (HLA) DQB polymorphism and antigen recognition patterns in women at delivery
Faculty of Science, University of Yaounde I, Cameroon				
69	Kamgoue Yamzi Alvine (UYI)	2010	MSc	Coinfection Malaria/VIH : La reconnaissance des antigènes palustres chez les femmes enceintes dans la ville de Yaounde
70	Saakem Petola Akeh (UYI)	2010	MSc	Investigation of the insecticidal properties of the Essential oil of *Chenopodium Ambrosoides Linn* for potential use in malaria vector control
71	Dfouokou Angeline Olive (UYI)	2010	MSc	Diversité génétique de MSP3 de *Plasmodium falciparum* dans trois localités dans la région du centre
72	Nguasong John Tamoh	2013	MSc	Characterization of monocyte subsets in malaria infected placenta: A pilot study
73	Njeambosay Boris Alungamoh	2013	MSc	Characterization of Anopheles fauna and entomological inoculation rates in the health district of Pitoa, North Cameroon

No.	Student's Name		Year	Title of thesis
74	Langason Rosemary Bifusina	1988	Maitrise	Prevalence of glucose-6-phosphate dehydrogenase deficiency in a sample population taken in Yaounde and

				attempts to culture malaria parasites in normal and G6PD deficient red blood cells
75	Fonjungo Peter Nkong	1990	Maitrise	Prevalence of Glucose–6-phospate-dehydrogenase deficiency, Thalassemia and Haemoglobin-S in a Cameroonian population
76	Tchinda Matong Viviane Helene	1993	Maitrise	Culture *in vitro* des isolates de *Plasmodium falciparum* et caracterisation des proteines
77	Kouontchou Samuel	1995	Maitrise	The application of immunological techniques to the study of malaria in adults in Etoa village

78	Metenou Simon	1996	Maitrise	Antigenic differences between an *in vitro* adapted strain of *Plasmodium falciparum*, Welch, 1897 (3D7) and Cameroonian strains
79	Ndountse Tchapda Leopold	1997	Maitrise	Facteurs suppresseur du serum: Effets des serums des femmes enceintes sur la proliferation des lymphocytes
80	Nakpa Seudieu Elvin Clement	1999	Maitrise	Study of the age-related antibody responses to *Plasmodium falciparum* (Welch, 1897) asexual blood stage antigens
81	Nkengfac Bernard	2001	Maitrise	Malaria prevalence and PCR genome typing of merozoite surface protein 1 (MSP-1) gene (block 2) in children in Ngali II village, Yaoundé