

# Curriculum Vitae



## Personal information

First name(s) / Surname(s) **Robert Adamu, Shey.**  
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Nationality Cameroonian  
Date of birth 12<sup>th</sup> January 1988  
Gender Male

## Current position Work experience

Dates December 2019 - present  
Occupation or position held Lecturer, University of Buea, Cameroon  
Main activities and responsibilities Research and teaching  
Name and address of employer University of Buea, P.O Box 63, Buea, Cameroon  
Type of business or sector Research/Education

## Education and training

Dates	Nov. 2013 – Dec 2018	Oct. 2010- Dec.2012	Oct. 2007 – Dec. 2010
Title of qualification awarded	Doctor of Philosophy	Master of Science	Bachelor of Science (First Class Honours)
Principal subjects/occupational skills covered	Molecular Biology	Biochemistry	Biochemistry
Name and type of organisation providing education and training	Universite Libre de Bruxelles	University of Buea	University of Buea

## Academic qualifications

PhD (Molecular Biology), Universite Libre de Bruxelles, 2018  
MSc (Biochemistry), University of Buea, 2012  
BSc (Biochemistry) (First Class Honours), University of Buea, 2010

## Awards/Credentials

- EDCTP/WHO/TDR Clinical Research and Development Fellowship, Jan – Dec. 2020, European Vaccine Initiative, Heidelberg, German
- "Les Amis des Instituts Pasteur a Bruxelles" fellowship 2019 - 2020.
- RSTMH travel scholarship for Research in Progress 2018 Meeting, London, UK, December 2018
- Commonwealth100: the Open-Source Leadership Programme badge, December 2018
- International Veterinary Vaccinology Network (IVVN) travel scholarship for the Frontiers in Human and Veterinary Antibody Discovery Meeting, UK, November 2018
- IVVN bursary to attend the Field evaluation of novel livestock vaccines workshop, Italy, November 2018
- LMIC Award for the International Vaccines Society Congress, Atlanta, October 2018
- YSF-FEBS 2018 Conference grant for 43rd FEBS Congress, Prague, July 2018
- PED - ULB Bourse d' Excellence, 2013 - 2017 (4 consecutive times) from Universite Libre de Bruxelles

## Personal skills and competences

Mother tongue(s)

Limbum

Other language(s)

Self-assessment

English

French

Understanding		Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production	
	Excellent		Excellent		Excellent		Excellent
	Basic		Basic		Basic		Basic

Social skills and competences

Ability to communicate in difficult situations, Problem-solving skills, ethical behavior, interpersonal skills, excellent team spirit, a strong sense of multiculturalism, self-management & professionalism.

Organizational/Leadership skills and competences

- Technical guidance of MSc research students under my Ph.D. thesis supervisor (2016 - present)
- Leading a research group of 6 students, involved in the design of epitope-based chimeric vaccine and diagnostic tools for neglected tropical diseases (2017 - present).
- Sports Co-ordinator, Wimbun Students' Union (WISU) Buea Branch (2011-2012).
- Liturgy/Spiritual Co-ordinator, Lectors Ministry, Sts Peter and Paul University Parish, Molyko, Buea (2010-2011)
- Vice President, Lectors Ministry, Sts Peter and Paul University Parish, Molyko, Buea (2009-2010).
- Tutorial master for Structural Biochemistry and Biochemical Methods, (2009-2010)
- Vice President i/c Academic Affairs, Buea University Biochemistry Students' Association (2008 -2009)

Technical skills and competences

SDS PAGE, **Western Blotting**, **ELISA**, Polyclonal antibody production, RNAi assays, Neutrophil Isolation, PCR, gene cloning, **protein expression, and purification (in bacteria and mammalian cells)**.

Computer skills and competencies

Windows OS, Microsoft Word, Microsoft Powerpoint, Microsoft

Other skills and competences

Excel Poetry, Singing, Public Speaking, Painting

## Academic work

"Molecular and Functional Characterization of *Onchocerca volvulus* gene products (Ov58GPCR and Ov-DKR-1) in the control of human onchocerciasis". (**Ph.D. thesis**), Universite Libre de Bruxelles, Belgium, 2018

"*Onchocerca ochengi*: in vitro antibody-dependent cytotoxic effects of normal mouse neutrophils and anti-118kDa excretory-secretory products (ESPs) antibodies on microfilariae". (**M.Sc. thesis**) University of Buea, Cameroon, 2012. MSc GPA: 3.7/4

## Selected Publications

- Computational Design and Preliminary Serological Analysis of a Novel Multi-Epitope Vaccine Candidate Against Onchocerciasis and Related Filarial Diseases, (Pathogens. **2021** Jan 21;10(2):99. doi: 10.3390/pathogens10020099) **First Author**

- *In-Silico* Design and Validation of OvMANE1, a Chimeric Antigen for Human Onchocerciasis Diagnosis (Pathogens **2020**, 9(6), 495; <https://doi.org/10.3390/pathogens9060495>) **Co-author**

- *In-silico* design of a multi-epitope vaccine candidate against onchocerciasis and related filarial diseases (Published in Scientific Reports, Sci Rep. **2019** Mar 13;9(1):4409. doi: 10.1038/s41598-019-40833-x) **First Author**

- Prediction and validation of the structural features of Ov58GPCR, and immunogenic determinant of *Onchocerca volvulus* (Published in PLOS One, **2018** DOI: 10.1371/journal.pone.0202915) **First author**

## Trainings

- Vaccine-related project management, EDCTP-TDR Clinical Research, and Development Fellowships, Jan – December 2020, European Vaccine Initiative, Germany (January – December 2020)
- Structured Training for African Researchers (STARS), University of Buea (Sept 2015 – June 2016)
- Introduction to Bioinformatics using the eBiolkit platform, University of Buea (27th – 30th October 2014)
- WHO Special Programme for Research and Training in Tropical Diseases (TDR) MOOC on Implementation Research (May - July 2018)

## Conference/Seminar Presentations

- Commonwealth100: the Open Source Leadership training program (November - December 2018)
  - In-silico design of a multi-epitope vaccine candidate against onchocerciasis and related filarial diseases, Grand Challenges Annual Meeting, Addis Ababa, Ethiopia. (October 27th - 30th 2019). **Poster Presentation.**
  - In-silico design of a multi-epitope vaccine candidate against onchocerciasis and related filarial diseases, Joint Minimally Invasive Surgery(MIS) & Third Biotechnology Conference, Kigali, Rwanda (September 26th - 27th 2019). **Oral Presentation.**
  - Design of a multi-antigenic, multi-stage, and multi-epitope vaccine candidate against *Onchocerca volvulus*: adding immuno-informatics to immunomics, Royal Society of Tropical Medicine and Hygiene Research in Progress 2018 Meeting, London, United Kingdom, (5th December 2018). **Poster Presentation**
  - Design of a multi-antigenic, multi-stage, and multi-epitope vaccine candidate against *Onchocerca volvulus*: adding immuno-informatics to immunomics, International Society for Vaccines (ISV) 2018 Annual Congress, Atlanta, Georgia (USA), (28th-30 October 2018). **Oral Presentation**
  - Prediction and validation of the structural features of Ov-58GPCR: implications in human onchocerciasis control efforts, 18th FEBS Young Scientists' Forum and the 43rd FEBS Congress in Prague, Czech Republic (4th -12th July 2018). **Poster Presentation**
  - Prediction and validation of the structural features of Ov58GPCR: implications in human onchocerciasis control efforts, Silver Jubilee of the Faculty of Science, University of Buea and the 3rd Faculty of Science Expo, University of Buea, (7th-8th June 2018). **Oral Presentation**
  - Prediction and validation of the structural features of Ov-58GPCR as an immunodominant antigen of *Onchocerca volvulus* in the context of onchocerciasis control efforts, Journées Scientifiques, Faculté des Sciences, University of Maroua, Cameroon (5th -7th April 2018). **Oral Presentation**
  - Prediction and validation of the structural features of Ov-58GPCR as an immunodominant antigen of *Onchocerca volvulus* in the context of onchocerciasis control efforts, 23rd National Symposium for Applied Biological Sciences, VUB Belgium (04/02/2018). **Oral Presentation**

## Additional information

I recently completed a postdoctoral fellowship working on the immunological characterization of an *in silico*-designed epitope-based chimeric vaccine for onchocerciasis. This work for which I received a 24-month fellowship from the "Les Amis des Instituts Pasteur a Bruxelles in Belgium was done in collaboration with the Université Libre de Bruxelles in Belgium, Centre Pasteur du Cameroun in Yaoundé (Cameroon), and the University of Buea in Cameroon. I am now based at the University of Buea in Cameroon where I teach and carry out research on the rational development of vaccines and diagnostic tools for onchocerciasis. I am also interested in mental health and vaccine hesitancy.

## Scientific Societies

- Royal Society of Tropical Medicine and Hygiene
- Genetics Society of America
- VALIDATE Network
- International Veterinary Vaccinology Network
- HicVac Network
- Belgian Society of Biochemistry and Molecular Biology

## References

Jacob Souopgui, Ph.D. (Professor)  
Chair in Developmental Biology  
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**Role: Ph.D. thesis supervisor**

Ghogomu Stephen, Ph.D. (Associate Professor)  
Head, Laboratory of Cell and Molecular Biology, Biotechnology Unit  
Head, Department of Biochemistry and Molecular Biology/Asst. Coordinator Biotech. Unit,  
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**Role: Ph.D. thesis supervisor**

Fidelis Cho-Ngwa, Ph.D. (Professor)  
Director, National Polytechnic Institute, Bamenda  
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**Role: MSc thesis supervisor**