

# ROSERIC AZONDEKON

I am a qualified Medical Informaticist, Epidemiologist, and Medical Entomologist with a strong background in independent and group laboratory research. I have a long tenure in malaria entomology research. I am the creator, maintainer and lead developer of the [Rnssp R package](#), the [Rnssp R Markdown templates](#), and related documentation websites.

[View this CV online](#)



## EDUCATION

Aug  
2018  
|  
Sep  
2014

- **PhD. Biomedical and Health Informatics**

University of Wisconsin Milwaukee

📍 Milwaukee, WI, USA

- Public Health Informatics track
- Thesis: [Network Analysis of Scientific Collaboration and Co-authorship of the Trifecta of Malaria, Tuberculosis and HIV/AIDS in Benin](#)

May  
2014  
|  
Sep  
2012

- **Master Of Public Health**

University of Massachusetts Amherst

📍 Amherst, MA, USA

- Epidemiology track

Mar  
2010  
|  
Dec  
2007

- **Master Of Science in Applied Entomology**

University of Abomey-Calavi

📍 Abomey-Calavi, Benin

- Medical and Veterinary Entomology track

Sep  
2007  
|  
Oct  
2003

- **Bachelor Of Science in Biomedical Science**

University of Abomey-Calavi

📍 Abomey-Calavi, Benin

- Medical Lab Scientist track

## WORK EXPERIENCE

present  
|  
Aug  
2019

- **Public Health Informatics Fellow**

Centers for Disease Control and Prevention (CDC), Syndromic and Data Branch (CSELS/DHIS/SDB)

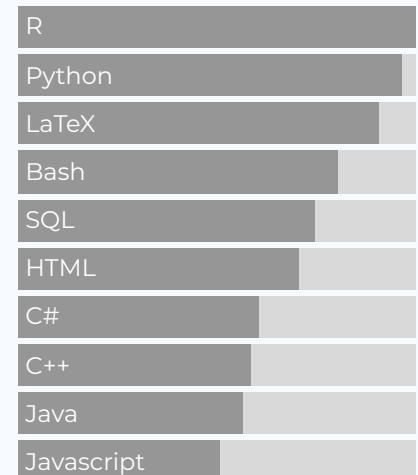
📍 Atlanta, GA, USA

- R shiny app development and maintenance
- Spatial Data Analysis and Modeling
- Syndrome and Mortality Data Source Development and Evaluation

## CONTACT

- ✉ [roseric\\_2000@yahoo.fr](mailto:roseric_2000@yahoo.fr)
- 🐦 [razondekon](#)
- 👤 [rosericazondekon](#)
- ㏌ [rosericazondekon](#)
- 🔗 [Personal Blog](#)

## LANGUAGE SKILLS



Last updated on 2022-12-21.

present  
|  
Dec  
2006

● **Senior Researcher**

Centre de Recherche Entomologique de Cotonou, Ministry Of Health  
 Republic of Benin

- Manuscript writing, publication and Regular presentation on progress reports at the USAID quarterly malaria meetings with implementing partners
- Designed and led multiple Mobile Data Collections of survey data using the Open Data Kit (ODK) and hand-held android devices.
- Design, Coordination and technical management of multiple malaria intervention projects as the head of the Quality Control of Insecticide Treated Tool Laboratory.

Aug  
2019  
|  
Nov  
2018

● **Research Analyst**

Joseph J. Zilber School of Public Health, University of Wisconsin  
Milwaukee  
 Milwaukee, WI, USA

- Genomics Data Analysis (Sequence Reads Alignment, Differential Gene Expression, DNA Methylation Analysis)
- Scientific (Parallel and High Throughput) Computing
- Shiny app development

Apr 2018  
|  
Sep  
2016

● **Clinical Research Assistant I**

Welzig Computational Neuroscience lab, Medical College of  
Wisconsin  
 Milwaukee, WI, USA

- Development of predictive models using Machine Learning techniques such as Deep Learning
- High Throughput Computing and Parallel Programming
- Acquisition, Processing and Analysis of MEG, EEG, fNIRS and fMRI data

Dec  
2015  
|  
Sep  
2015

● **Teaching Assistant**

Joseph J. Zilber School of Public Health, University of Wisconsin  
Milwaukee  
 Milwaukee, WI, USA

- Teaching Elementary data analysis using SAS to first-year MPH students enrolled in the Introductory Biostatistics course PH 702 801-LAB 14B (SAS Lab)
- Design of quizzes and various assignments to evaluate students' progress
- Provide grading and feedback to students

May  
2015  
|  
Nov  
2014

● **Graduate Research Assistant**

Laboratory for Public Health Informatics and Genomics, Joseph J.  
Zilber School of Public Health, University of Wisconsin Milwaukee  
 Milwaukee, WI, USA

- Genomics data analysis of RNA-seq data using R, TCGA tools, Galaxy and Chipster
- Genomics pipeline development of various Bioinformatics tools such as VirusSeq
- Analysis of gene network

## CDC DEPLOYMENTS

Jun 2021  
|  
Mar 2021

- **CDC Novel Coronavirus (COVID-19) Response**  
Centers for Disease Control and Prevention (CDC)  Atlanta, GA, USA
  - Served as Data Scientist in the Data Analytics and Visualization Task Force
- **CDC Novel Coronavirus (COVID-19) Response**  
Centers for Disease Control and Prevention (CDC)  Atlanta, GA, USA
  - Served as Data Analyst in the Data Analytics and Visualization Task Force
- **CDC Novel Coronavirus (COVID-19) Response**  
Centers for Disease Control and Prevention (CDC)  Atlanta, GA, USA
  - Served as Data Analyst in the Innovation, Technology, and Analytics Section
- **Polio Response**  
Ministry of Health  Republic of Benin
  - Provided technical assistance to the Ministry of Health of the Republic of Benin

Dec 2019  
|  
Nov 2019

## AWARDS & GRANTS

2022

- **Excellence in Surveillance and Health Monitoring**  
Centers for Disease Control and Prevention (CDC)
  - CSELS Honor Award
  - Healthcare Data Advisory Unit and National Syndromic Surveillance Program

2021

- **COVID-19: Excellence in Information Technology**  
Centers for Disease Control and Prevention (CDC)
  - CDC/ATSDR Honor Awards
  - CDC Data Hub Cloud Development Team (DHIS)

2021

- **Excellence In Information Technology**  
Centers for Disease Control and Prevention (CDC)
  - CSELS Honor Award
  - CDC Data Hub Cloud Development Team (DHIS)

- 2021
- **Excellence In Quantitative Sciences**  
Centers for Disease Control and Prevention (CDC)
    - CSELS Honor Award
    - Data Science and Innovation Team (DHIS)
- 2021
- **Excellence In Emergency Response**  
Centers for Disease Control and Prevention (CDC)
    - CSELS Honor Award
    - National Syndromic Surveillance Program COVID-19 Response (DHIS)
- 2020
- **Excellence In Partnering (COVID Winner)**  
Centers for Disease Control and Prevention (CDC)
    - CSELS Honor Award
    - COVID-19 Laboratory and Emergency Department Data Teams (DHIS)
- 2019
- **Public Health Informatics Fellowship Program**  
Centers for Disease Control and Prevention (CDC)
- 2016
- **Merit Scholarship Programme for High Technology**  
Islamic Development Bank
- 2015
- **Distinguished Graduate Student Fellowship**  
University of Wisconsin Milwaukee
- 2014
- **Chancellor's Graduate Student Award**  
University of Wisconsin Milwaukee
- 2013
- **Hosmer BioStat Scholarship**  
University of Massachusetts Amherst
- 2012
- **Fulbright Foreign Student Program**  
US Department of States
- 2008
- **Master Of Science Scholarship Programme**  
Islamic Development Bank

## SOFTWARE & TOOLS

- Mar 2021
- **The Rnssp R package**  
A Signature R package to support the Community of Practice of the National Syndromic and Surveillance Program (NSSP)
    - Online Documentation: <https://cdc.gov.github.io/Rnssp>
- Sep 2020
- **The Global Vaccination Survey Analyzer (GVSA)**  
A standardized tool to support analysis of vaccination survey data among displaced populations
- Mar 2020
- **COVID-19 Exploratory Analysis Dashboard**  
A Near Real-Time COVID-19 Situational Awareness Shiny-Based Web Application
- Apr 2018
- **kdtEstimator**  
A small Shiny app for the estimation of Knock-Down Time based on aggregated WHO or CDC bottle Bioassay data
    - Try it Live: <https://razondekon.shinyapps.io/kdtApp/>
- Feb 2018
- **Authorvis**  
A co-authorship network exploration, and link prediction tool specific to the scientific collaborative research network of Malaria, Tuberculosis and HIV/AIDS in the Republic of Benin
    - Docker image: <https://hub.docker.com/r/rosericazondekon/authorvis>

## CERTIFICATES & TRAINING

- Aug 2021
- **Completion of the Public Health Informatics Fellowship Program**  
Centers for Disease Control and Prevention (CDC)
- Apr 2021
- **Interactive Python Dashboards and Apps certificate**  
Accelerate
- Feb 2021
- **Introduction to Spark with sparklyr in R**  
DataCamp
- Feb 2021
- **Object-Oriented Programming with S3 and R6 in R**  
DataCamp
- Jun 2020
- **Functions, Methods, and Interfaces in Go**  
Coursera

- Jun 2020 • [Getting Started with Go](#)  
Coursera
- Jun 2020 • [Introduction to TensorFlow in Python](#)  
DataCamp
- Oct 2019 • [Interactive Maps with leaflet in R](#)  
DataCamp
- Oct 2019 • [Spatial Data with R Track](#)  
DataCamp
- Oct 2019 • [Spatial Statistics in R](#)  
DataCamp
- Sep 2019 • [Advanced NLP with spaCy](#)  
DataCamp
- Sep 2019 • [Machine Learning for Time Series Data in Python](#)  
DataCamp
- Sep 2019 • [Natural Language Processing Fundamentals in Python](#)  
DataCamp
- Sep 2019 • [Spatial Analysis in R with sf and raster](#)  
DataCamp
- Sep 2019 • [Working with Geospatial Data in R](#)  
DataCamp
- Nov 2018 • [Certificate of Reviewing](#)  
Journal of Biomedical Informatics (JBI)
  - Awarded in recognition of 3 reviews contributed to JBI
- Sep 2015 • [Programming for Everybody \(Python\)](#)  
Coursera



## SELECTED DATA SCIENCE WRITING

2022

- [Bisulfite Treated Sequence Read Alignment](#)

Personal Blog

- A tutorial to Bisulfite-treated DNA Methylation read alignment

2021

- [Differential Gene Expression Analysis](#)

Personal Blog

- A Differential Gene Expression Analysis tutorial Using R

2021

- [RNA-seq Read Alignment and Quantification](#)

Personal Blog

- A tutorial to RNA sequence read alignment and quantification.

2021

- [How to Use the ESSENCE APIs with the Rnssp Package](#)

NSSP CoP Knowledge Repository

- An introductory guide to the Rnssp package for ESSENCE users

2021

- [Introduction to the Rnssp package](#)

The Rnssp package Online Documentation

- An introductory vignette to the Rnssp package

2021

- [Anomaly Detection and Trend Classification](#)

The Rnssp package Online Documentation

- A vignette to Anomaly Detection and Trend Classification with the Rnssp package

I regularly publish tutorials on bioinformatics and data science related [subjects](#)



## LIST OF PUBLICATIONS

2022

- [Changes and Inequities in Adult Mental Health–Related Emergency Department Visits During the COVID-19 Pandemic in the US](#)

JAMA Psychiatry

- Authored with Kayla N. Anderson, Lakshmi Radhakrishnan, Rashon I. Lane, Michael Sheppard, Jourdan DeVies, Amanda R. Smith, Rebecca H. Bitsko, Kathleen P. Hartnett, Barbara Lopes-Cardozo, Rebecca T. Leeb, Katharina L. van Santen, Kelly Carey, Sophia Crossen, Taylor P. Dias, Sam Wotiz, Jennifer Adjemian, Loren Rodgers, Rashid Njai, Craig Thomas

- DOI: [10.1001/jamapsychiatry.2022.0164](https://doi.org/10.1001/jamapsychiatry.2022.0164)

2021

- **Coverage, Usage, Physical Integrity, and Bio-efficacy of Olyset Nets in the Plateau Region, South Benin Following the 2011 Nationwide Distribution**

Journal of Medical Entomology

- Authored with Arthur Sovi, Virgile Gnanguenon, Frederic Oke-Agbo, Speraud Houevoessa, Albert S Salako, Bruno Akinro, Renaud Govoetchan, Razaki Osse, Filemon Tokponnon, Gil G Padonou, and Martin C Akogbeto
- DOI: [10.1093/jme/tjab190](https://doi.org/10.1093/jme/tjab190)

2021

- **Changes in Seasonal Respiratory Illnesses in the United States During the Coronavirus Disease 2019 (COVID-19) Pandemic**

Clinical Infectious Diseases

- Authored with Loren Rodgers, Michael Sheppard, Amanda Smith, Stephanie Dietz, Praveena Jayanthi, Yan Yuan, Lara Bull, Samantha Wotiz, Tessa Schwarze, Kathleen Hartnett, Jennifer Adjemian, Hannah L Kirking, and Aaron Kite-Powell
- DOI: [10.15585/mmwr.mm7015a3](https://doi.org/10.15585/mmwr.mm7015a3)

2021

- **Update: COVID-19 Pandemic-Associated Changes in Emergency Department Visits – United States, December 2020 – January 2021**

Morbidity and Mortality Weekly Report

- Authored with Jennifer Adjemian, Kathleen P. Hartnett, Aaron Kite-Powell, Jourdan DeVies, Roseric Azondekon, Lakshmi Radhakrishnan, Katharina L. van Santen, and Loren Rodgers
- DOI: [10.15585/mmwr.mm7015a3](https://doi.org/10.15585/mmwr.mm7015a3)

2020

- **ImergardTMWP: A Non-Chemical Alternative for an Indoor Residual Spray, Effective against Pyrethroid-Resistant *Anopheles Gambiae* (s.l.) in Africa**

Insects

- Authored with Deguenon J.M., Agossa F.R., Padonou G.G., Anagonou R., Ahoga J., N'dombidje B., Akinro B., Stewart D.A., Wang B., Gittins D., Tihomirov L., Apperson C.S., McCord M.G., Akogbeto M.C., Roe R.M
- DOI: [10.3390/insects11050322](https://doi.org/10.3390/insects11050322)

2020

- **Physical Integrity and Survivorship of Long-Lasting Insecticidal Nets Distributed to Households of the Same Socio-Cultural Community in Benin, West Africa**

Malaria Journal

- Authored with Idelphonse B. Ahogni, Albert S. Salako, Bruno Akinro, Arthur Sovi, Virgile Gnanguenon, Jean F. Dagnon, Pamela Akogbeto, Filemon Tokponnon & Martin C. Akogbeto
- DOI: [10.1186/s12936-020-3138-7](https://doi.org/10.1186/s12936-020-3138-7)

- 2019
- **Pesticides and the Evolution of the Genetic Structure of Anopheles Coluzzii Populations in Some Localities in Benin (West Africa)**  
Malaria Journal
    - Authored with Arsene Jacques Y. H. Fassinou, Come Z. Koukpo, Razaki A. Osse, Fiacre R. Agossa, Andre Sominahouin, Casimir Kpanou, Hermann Sagbohan, Boulais Yovogan, Martin C. Akogbeto, and Michel Sezonlin
    - DOI: [10.1186/s12936-019-3036-z](https://doi.org/10.1186/s12936-019-3036-z)
- 2018
- **Modeling the Complexity and Dynamics of the Malaria Research Collaboration Network in Benin, West Africa: papers indexed in the Web Of Science (1996-2016)**  
AMIA Annual Symposium Proceedings
    - PMID: [30815057](#)
- 2018
- **Scientific Authorship and Collaboration Network Analysis on Malaria Research in Benin: Papers Indexed in the Web of Science (1996 – 2016)**  
Global Health Research and Policy
    - Authored with Roseric Azondekon, Zachary James Harper, Fiacre Rodrigue Agossa, Charles Michael Welzig, and Susan McRoy
    - DOI: [10.1186/s41256-018-0067-x](https://doi.org/10.1186/s41256-018-0067-x)
- 2018
- **Efficacy of a novel mode of action of an indoor residual spraying product, SumiShield® 50WG against susceptible and resistant populations of Anopheles gambiae (s.l) in Benin, West Africa**  
Parasites & Vectors
    - Authored with Fiacre R Agossa, Gil G Padonou, Come Z Koukpo, Jacques Zola-Sahossi, Osei K Akuoko, Juniace Ahoga, Boris N'dombidje, Bruno Akinro, Arsene Jacques Y H Fassinou, Michel Sezonlin, Martin C Akogbeto
    - DOI: [10.1186/s13071-018-2869-6](https://doi.org/10.1186/s13071-018-2869-6)
- 2015
- **Impact of Insecticide Resistance on the Effectiveness of Pyrethroid-Based Malaria Vectors Control Tools in Benin: Decreased Toxicity and Repellent Effect**  
PLoS ONE
    - Authored with Fiacre R Agossa, Virgile Gnanguenon, Rodrigue Anagonou, Nazaire Aizoun, Arthur Sovi, Frederic Oke-Agbo, Michel Sezonlin, Martin C Akogbeto
    - DOI: [10.1371/journal.pone.0145207](https://doi.org/10.1371/journal.pone.0145207)
- 2015
- **Six years of experience in entomological surveillance of indoor residual spraying against malaria transmission in Benin: Lessons learned, challenges and outlooks**  
Malaria Journal
    - Authored with Martin C Akogbeto, Rock Y Aikpon, Roseric Azondekon, Gil G Padonou, Razaki A Osse, Fiacre R Agossa, Raymond Beach, Michel Sezonlin
    - DOI: [10.1186/s12936-015-0757-5](https://doi.org/10.1186/s12936-015-0757-5)

2015

- **Malaria vectors resistance to insecticides in Benin: Current trends and mechanisms involved**

Parasites & Vectors

- Authored with Virgile Gnanguenon, Fiacre R Agossa, Kefilath Badirou, Renaud Govoetchan, Rodrigue Anagonou, Frederic Oke-Agbo, Ramziath Agbanrin-Youssouf, Roseline Attolou, Filemon T Tokponnon, Rock Aikpon, Razaki Osse, Martin C Akogbeto
- DOI: [10.1186/s13071-015-0833-2](https://doi.org/10.1186/s13071-015-0833-2)

2015

- **Application of Polovodova's Method for the Determination of Physiological Age and Relationship between the Level of Parity and Infectivity of Plasmodium falciparum in Anopheles gambiae ss, South-eastern Benin**

Parasites & Vectors

- Authored with Rodrigue Anagonou, Fiacre Agossa, Marc Agbogan, Frederic Oke-Agbo, Virgile Gnanguenon, Kefilath Badirou, Ramziath Agbanrin-Youssouf, Roseline Attolou, Gil Germain Padonou, Arthur Sovi, Razaki Osse, Martin Akogbeto
- DOI: [10.1186/s13071-015-0731-7](https://doi.org/10.1186/s13071-015-0731-7)

2015

- **Development of new combined method based on reading of ovarian tracheoles and the observation of follicular dilatations for determining the physiological age of Anopheles gambiae ss**

Journal of Cell and Animal Biology

- Authored with Rodrigue Anagonou, Fiacre Agossa, Virgile Gnanguenon, Bruno Akinro, Gil Germain Padonou, Renaud Govoetchan, Rock Aikpon, Arthur Sovi
- DOI: [10.5897/JCAB2014.0424](https://doi.org/10.5897/JCAB2014.0424)

2014

- **Transmission patterns of Plasmodium falciparum by Anopheles gambiae in Benin**

Malaria Journal

- Authored with Virgile Gnanguenon, Renaud Govoetchan, Fiacre R Agossa, Razaki Osse, Frederic Oke-Agbo, Arthur Sovi, Roseline Attolou, Kefilath Badirou, Filemon T Tokponnon, Gil G Padonou, Martin C Akogbeto
- DOI: [10.1186/1475-2875-13-444](https://doi.org/10.1186/1475-2875-13-444)

2014

- **Study of the efficacy of a Wheaton coated bottle with permethrin and deltamethrin in laboratory conditions and a WHO impregnated paper with bendiocarb in field conditions**

Asian Pacific Journal of Tropical Biomedicine

- Authored with Nazaire Aizoun, Rock Aikpon, Virgile Gnanguenon, Razaki Osse, Alex Asidi, Martin Akogbeto
- DOI: [10.12980/APJTB.4.2014C1111](https://doi.org/10.12980/APJTB.4.2014C1111)

2014

- **Status of organophosphate and carbamate resistance in Anopheles gambiae sensu lato from the Sudano Guinean area in the central part of Benin, West Africa**

Journal of Cell and Animal Biology

- Authored with Nazaire Aizoun, Virgile Gnanguenon, Rodrigue Anagonou, Rock Aikpon, Martin Akogbeto
- DOI: [10.5897/JCAB2013.0400](https://doi.org/10.5897/JCAB2013.0400)

2014

- **Comparative susceptibility to permethrin of two Anopheles gambiae s.l. populations from Southern Benin, regarding mosquito sex, physiological status, and mosquito age**

Asian Pacific Journal of Tropical Biomedicine

- Authored with Nazaire Aizoun, Rock Aikpon, Roseric Azondekon, Alex Asidi, Martin Akogbeto
- DOI: [10.12980/APJTB.4.2014C1093](https://doi.org/10.12980/APJTB.4.2014C1093)

2014

- **Centre for Disease Control and Prevention (CDC) bottle bioassay: A real complementary method to World Health Organization (WHO) susceptibility test for the determination of insecticide susceptibility in malaria vectors**

Journal of Parasitology and Vector Biology

- Authored with Nazaire Aizoun, Rock Aikpon, Virgile Gnanguenon, Razaki Osse, Gil Germain Padonou, Martin Akogbeto
- DOI: [10.5897/JPVB2013.0144](https://doi.org/10.5897/JPVB2013.0144)

2014

- **Dynamics of insecticide resistance and exploring biochemical mechanisms involved in pyrethroids and dichlorodiphenyltrichloroethane (DDT) cross-resistance in Anopheles gambiae s.l populations from Benin, West Africa**

Journal of Cell and Animal Biology

- Authored with Nazaire Aizoun, Rock Aikpon, Rodrigue Anagonou, Virgile Gnanguenon, Martin Akogbeto
- DOI: [10.5897/JCAB2014.0406](https://doi.org/10.5897/JCAB2014.0406)

2014

- **Microdistribution of the resistance of malaria vectors to Deltamethrin in the region of Plateau (southeastern Benin) in preparation for an assessment of the impact of resistance on the effectiveness of Long Lasting Insecticidal Nets (LLINs)**

BMC Infectious Diseases

- Authored with Arthur Sovi, Innocent Djegbe, Lawal Soumanou, Filemon Tokponnon, Virgile Gnanguenon, Frederic Oke-Agbo, Mariam Oke, Alioun Adechoubou, Achille Massougbodji, Vincent Corbel, Martin Akogbeto
- DOI: [10.1186/1471-2334-14-103](https://doi.org/10.1186/1471-2334-14-103)

2014

- Evidence for perennial malaria in rural and urban areas under the Sudanian climate of Kandi, Northeastern Benin

Parasites & Vectors

- Authored with Renaud Govoetchan, Virgile Gnanguenon, Rodrigue Fiacre Agossa, Arthur Sovi, Frederic Oke-Agbo, Razaki Osse, Martin Akogbeto
- DOI: [10.1186/1756-3305-7-79](https://doi.org/10.1186/1756-3305-7-79)

2014

- Durability assessment results suggest a serviceable life of two, rather than three, years for the current long-lasting insecticidal (mosquito) net (LLIN) intervention in Benin

BMC Infectious Diseases

- Authored with Virgile Gnanguenon, Frederic Oke-Agbo, Raymond Beach, Martin Akogbeto
- DOI: [10.1186/1471-2334-14-69](https://doi.org/10.1186/1471-2334-14-69)

2014

- Efficacy of various insecticides recommended for indoor residual spraying: Pirimiphos methyl, potential alternative to bendiocarb for pyrethroid resistance management in Benin, West Africa

Transactions of The Royal Society of Tropical Medicine and Hygiene

- Authored with Fiacre R Agossa, Rock Aikpon, Renaud Govoetchan, Gil Germais Padonnou, Olivier Oussou, Frederic Oke-Agbo, Martin C Akogbeto
- DOI: [10.1093/trstmh/trt117](https://doi.org/10.1093/trstmh/trt117)

2014

- A tracking tool for long-lasting insecticidal (mosquito) net intervention following a 2011 national distribution in Benin

Parasites & Vectors

- Authored with Virgile Gnanguenon, Frederic Oke-Agbo, Speraud Houevoessa, Michael Green, Martin Akogbeto
- DOI: [10.1186/1756-3305-7-6](https://doi.org/10.1186/1756-3305-7-6)

2014

- Comparative susceptibility to permethrin of two *Anopheles gambiae* s.l. populations from Southern Benin, regarding mosquito sex, physiological status, and mosquito age

Asian Pacific Journal of Tropical Biomedicine

- Authored with Nazaire Aizoun, Rock Aikpon, Alex Asidi, Martin Akogbeto
- DOI: [10.12980/APJTB.4.2014C1093](https://doi.org/10.12980/APJTB.4.2014C1093)

2013

- Dynamics of insecticide resistance and effect of synergists piperonyl butoxide (PBO), S.S.S-tributylphosphorothioate (DEF) and ethacrynic acid (ETAA or EA) on permethrin, deltamethrin and dichlorodiphenyltrichloroethane (DDT) resistance in two *Anopheles gambiae* s. l. populations from Southern Benin, West Africa

Journal of Parasitology and Vector Biology

- Authored with Nazaire Aizoun, Rock Aikpon, Virgile Gnanguenon, Frederic Oke-Agbo, Gil Germain Padonou, Martin Akogbeto
- DOI: [10.5897/JPV2013.0136](https://doi.org/10.5897/JPV2013.0136)

- 2013
- **The effects of oviposition site deprivation up to 40 days on reproductive performance, eggs development, and ovipositional behaviour in *Anopheles gambiae* (Diptera, Nematocera, Culicidae)**  
Journal of Parasitology and Vector Biology
    - Authored with Govoetchan Renaud, Sovi Arthur, Aikpon Rock, Agbevo Abel Kokou, Oke-Agbo Frederic, Asidi Alex, Akogbeto Martin
    - DOI: [10.5897/JPV2013.0136](https://doi.org/10.5897/JPV2013.0136)
- 2013
- **Impact of operational effectiveness of long-lasting insecticidal nets (LLINs) on malaria transmission in pyrethroid-resistant areas**  
Parasites & Vectors
    - Authored with Arthur Sovi, Rock Y Aikpon, Renaud Govoetchan, Filemon Tokponnon, Fiacre Agossa, Albert S Salako, Frederic Oke-Agbo, Bruno Aholoukpe, Mariam Oke, Dina Gbenou, Achille Massougbedji, Martin Akogbeto
    - DOI: [10.1186/1756-3305-6-319](https://doi.org/10.1186/1756-3305-6-319)
- 2013
- **Evidence of man-vector contact in torn long-lasting insecticide-treated nets**  
BMC Public Health
    - Authored with Virgile Gnanguenon, Frederic Oke-Agbo, Arthur Sovi, Razaki Osse, Gil Padonou, Rock Aikpon, Martin C Akogbeto
    - DOI: [10.1186/1471-2458-13-751](https://doi.org/10.1186/1471-2458-13-751)
- 2013
- **Comparison of the standard WHO susceptibility tests and the CDC bottle bioassay for the determination of insecticide susceptibility in malaria vectors and their correlation with biochemical and molecular biology assays in Benin, West Africa**  
Parasites & Vectors
    - Authored with Nazaire Aizoun, Razaki Osse, Roland Alia, Olivier Oussou, Virgile Gnanguenon, Rock Aikpon, Gil Germain Padonou, Martin Akogbeto
    - DOI: [10.1186/1756-3305-6-147](https://doi.org/10.1186/1756-3305-6-147)
- 2012
- **Decreased proportions of indoor feeding and endophily in *Anopheles gambiae* s.l. populations following the indoor residual spraying and insecticide-treated net interventions in Benin (West Africa)**  
Parasites & Vectors
    - Authored with Gil Germain Padonou, Ghelus Gbedjissi, Anges Yadouleton, Osse Razack, Olivier Oussou, Virgile Gnanguenon, Aikpon Rock, Michel Sezonlin, Martin Akogbeto
    - DOI: [10.1186/1756-3305-5-262](https://doi.org/10.1186/1756-3305-5-262)

2012

- **Dosage du plomb et du cadmium dans le sperme des sujets consultant pour infertilité masculine dans la ville de Cotonou**

International Journal of Biological and Chemical Sciences

- Authored with HM Gbetoh, PA Edorh, MF Gouissi, AS Hounkpatin, P Guedenon, L Koumonlou, FS Loko, M Boko

• DOI: [10.4314/ijbcs.v6i2.3](https://doi.org/10.4314/ijbcs.v6i2.3)

2011

- **Biology of Anopheles gambiae and insecticide resistance: Entomological study for a large scale of indoor residual spraying in south east Benin**

Journal of Parasitology and Vector Biology

- Authored with Padonou G G, Sezonlin M, Gbedjissi G L, Ayi I, Djenontin A, Bio-Bangana S, Oussou O, Yadouleton A, Boakye D, Akogbeto M

• DOI: [10.5897/JPVB.9000002](https://doi.org/10.5897/JPVB.9000002)



## CONFERENCE PROCEEDINGS

Nov 2021

- **Rnssp: A Signature R Package for the National Syndromic Surveillance Program**

2021 Syndromic Surveillance Symposium

- [Video Recording](#)
- [Presentation Slides](#)

• Authored with Michael Sheppard, Kelly Carey, and Aaron Kite-Powell

Nov 2021

- **Analytic Discriminator to Reduce ESSENCE Algorithm Alerts Resulting from Abrupt Changes in Data Quality**

2021 Syndromic Surveillance Symposium

- Authored with Howard Burkom and Michael Sheppard

Nov 2017

- **Scientific Authorship and Collaboration Network Analysis on Malaria Research in Benin: papers indexed in the Web Of Science (1996–2016)**

American Society of Tropical Medicine and Hygiene 66th Annual Meeting

Baltimore, MD, USA

Jun 2017

- **Exploring Connectivity Dynamics using Deep Neural Network Models from Magnetoencephalographic Data**

Organization for Human Brain Mapping

Vancouver, BC, Canada

- Authored with Zachary Harper and Charles Welzig

Nov 2015

- **Epidemiology of Hepatitis C and HIV co-infection in Asia.**

143rd American Public Health Association Annual conference

Chicago, IL, USA

- Authored with Samuel A. Abariga and Krishna C. Poudel:

Nov  
2014

- **Prevalence of Human Immunodeficiency Virus and Hepatitis C virus co-infection in Africa: A Systematic Review and Meta-analysis**  
142nd APHA Annual Meeting & Exposition  New Orleans, LA, USA  
· Authored with Samuel A. Abariga and Krishna C. Poudel:

Nov  
2012

- **Implementing full coverage of long lasting insecticidal nets: a good alternative strategy after cessation or abandon of indoor residual spraying**  
ASTMH 61st Annual Meeting  Atlanta, GA, USA  
· Authored with Akogbeto C. Martin, Osse Razaki, and Yadouleton Anges

Nov  
2009

- **Entomological profile and cartography of malaria vector insecticide resistance in Benin**  
5th MIM Pan-African Malaria Conference  Nairobi, Kenya