

CURRICULUM VITAE

NAME: Smith, Stella Ifeanyi (Prof.) nee Ebigwei

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PLACE OF BIRTH: LAGOS

STATE & LOCAL GOVT. OF ORIGIN: DELTA, ANIOCHA NORTH

PERMANENT HOME ADDRESS: NIGERIAN INSTITUTE OF MEDICAL RESEARCH,
6 EDMOND CRESCENT, YABA, LAGOS.

CURRENT POSTAL ADDRESS: P.O. BOX 2013, YABA, LAGOS

MARITAL STATUS: MARRIED

EDUCATIONAL INSTITUTIONS ATTENDED (WITH DATES)

UNDERGRADUATE:

University of Ilorin, Kwara State. 1986

POST GRADUATE:

College of Medicine, University of Lagos, Idi- Araba. 1988

College of Medicine, University of Lagos, Idi-Araba. 1996

ACADEMIC QUALIFICATIONS OBTAINED (WITH DATES)

B. Sc (Hons) Microbiology (2nd Class Upper), University of Ilorin, Ilorin 1986

M. Sc. Medical Microbiology and Parasitology (Distinction), College of Medicine,
University of Lagos 1988

PhD Medical Microbiology, College of Medicine, University of Lagos 1996

STATEMENT OF EXPERIENCE INCLUDING FULL DATES OF PAST AND PRESENT POSTS

Nigerian Institute of Med. Research, Yaba Jnr. Research Fellow	1988 -1993
Research Fellow II	1993 – 1996
Research Fellow I	1997 - 1999
Senior Research Fellow	2000 - 2002
Chief Research Fellow	2003 – 2007
Deputy Director (Research)	2008 – 2013
Director (Research)	2013 -date

DATE OF LAST PROMOTION:
Professor of Microbiology, Mountain Top University **10-2019**

***ADMINISTRATIVE EXPERIENCE**

- Management staff and HOD and as HOD, I coordinate and supervise all the Research activities in the Division and the Division till date has been able to get 111 publications in works done in the Department or as collaboration. 2004 - 2015
- Member of the NIMR Resident Due Process 2004 - 2011
- Member, Project Evaluation and Monitoring Committee, NIMR 2004 - 2007
- Chairperson, Housing loan committee 2004 - 2011
- Member 2004 – 2005 draft of NIMR Annual Report
- Member Management Tender’s Board 2000 - 2003, 2012
- Member Editorial Board of Nigerian Journal of Clinical and Biomedical Research 2005 - 2010
- Chairperson D-G advisory committee on staff matters 2002 - 2006
- Member, Formulators of Service Charter for NIMR 2004
- Assessment of manuscripts sent for publications both within and outside the Institute.
- Member NIMR IRB Board and have been involved in Peer reviewing proposals sent for IRB approval 2004 - 2012
- Organizing training workshops on Biotechnology 2004 - date.
- Member, Project Procurement Committee (PPC) 2008 – 2011
- Leader, Annual Molecular Biology and Biotechnology Workshop 2009 till date.
- Coordinator, first Bioinformatics workshop in NIMR June 13th to 16th 2011
- Head, Emergency Preparedness and Response Research Group 2012 to date
- Chairperson, D-G’s second year anniversary symposium 2012

- Coordinator, one-day training for EPRG members 12/6/12
- Coordinator, two-day training for EPRG members facilitated By UNICEF 17-18 Oct 2012
- Gave a welcome address to stakeholders during the inaugural meeting of the NCD Research Group with stakeholders on 'Causes of Adult Sudden death'. April 24th 2014
- Acted on behalf of the Director-General at various times since 2010
- Chairperson, Housing Allocation Committee Jan 2020 - date
- Convener, First Humboldt Kolleg, NIMR October 2019
- Convener & Founding President, AHMSG June 2022

SCHOLARSHIP, FELLOWSHIP AND PRIZES

Pre-doctoral Training with European Union Scholarship EU grant no: 6100.52.41.032

Public Health Laboratory, Withington, Hospital, Manchester. **1993-1994**
(Molecular epidemiology of local strains of *Campylobacter jejuni/coli*)

Postdoctoral Training with Alexander von Humboldt and INSERM fellowships

Technical University Hospital, Dresden, Germany (AVH) **1999- 2000**
 Laboratoire de Bacteriologie, Universite (INSERM) **May – July 2001**
 Victor Segalen, Bordeaux II, Bordeaux, France

Max von Pettenkoffer Institut, München, (AvH) **April–September 2003**

Honours, Distinction and Membership of Learned Societies

Letter of commendation from NYSC 1988
 Nigerian Society for Immunology, Nigeria.
 FADIB, Nigeria.
 Member, Nigerian Society for Microbiology
 American Society for Microbiology 2004 - date
 Recipient of 19th Edition of Who is Who in the world 2001
 Member, African Microbicide Advocacy Group (AMAG)
 Member, Third World Academy of Science (TWAS)
 Capacity building (400+) through molecular biology hands-on-training workshops 2009 – date
 Sub-Committee Member, Review of National Science, Technology and Innovation (STI) Policy 2011
 Member, Organization for Women in Science for the Developing World (OWSD) 2017
 Member, Organization for Women Scientists for Developing World (OWSD), Africa/Lagos Chapter 2019

Member, Request a Woman Scientist' - become a knowledge resource	2018
Member, World Academy of Young Scientists (WAYS)	2011-2014
Member, List of Productive Scientists, ISI Web of Science, www.isiknowledge.com	2007
Fellow of African Scientific Institute (ASI)	2013 - date
Member, Research Gate	2015 - date
Member, Society for Applied Microbiology, UK	2016 – date
Member, African German Network of Excellence in Science (AGNES)	2016 – date
List of 10 Nigerian women pulling their weight in Science by Leadership newspaper,	2017
List of 16 Prominent Nigerian women that excelled in Science and Research, silverbirdtv.com	2018
Member, National Technical Working Group on AMR Research	2019
Consultant, Maastricht Consensus VI project, Italy with 29 countries and only African involved	2021
President, African <i>Helicobacter</i> and Microbiota Study Group	2021
Top 500 authors, by Scholarly Output in Nigeria	2019 to date
Chairperson, Committee on TVC report on fake covid-19 testing in NIMR	2020
Career talk, with Early Career Researcher on ‘Meet the Expert Session’ NIMR	2021
Mentor to Dr. Uche Igbasi, under the Fogarty EN-RTP Mentoring Term Training programme and NIH funding	2021
Member, Technical Working Group on Biosafety and Biosecurity in Nigeria organized by Sandia Laboratories US	2021
Mentor under the I-Mentor: A Humboldt sponsored project for mentorship of women in STEM awarded to Prof. O. Odeku, UI	2021
Special Issue Editor on Antibiotic Resistance and therapy for <i>H. pylori</i> infection Antibiotics, IF 5.222	2022
Editorial Board Member of Frontiers in Microbiology IF (5. 64)	2022
Special Issue Editor on Advances in Campylobacter: Molecular Epidemiology, Virulence Factors, Immune Response and Drug Resistance, Microorganisms, IF 5.143	2022
Fellow of the Nigerian Academy of Science	2022
Consultant, R.E.G.A.I.N. project, Venice, Italy as only African with 29 countries involved.	2022
Co-Chair and member, Foodborne Disease (FBD) Genomic Surveillance	2022
Research Gate: https://www.researchgate.net/profile/Stella-Smith-2/stats	
Google scholar: https://scholar.google.com/citations?user=szjhfkAAAAJ&hl=en	
Orchid No: https://orcid.org/0000-0003-2163-1189	
https://www.scopus.com/authid/detail.uri?authorId=57202018419	
Web of Science ResearcherID: AAQ-3023-2021	

External Examination

- Antimicrobial susceptibility and molecular epidemiology of *Clostridium difficile* in Lagos metropolis’ by Dr. T. Egwuatu, Department of Medical Microbiology and Parasitology, University of Lagos, PhD Thesis. **May 2011.**

- Characterization of *Campylobacter jejuni* isolated from Swartkops river estuary in Nelson Mandela bay municipality, Eastern Cape Province, South Africa by Otigbu Anthony C, University of Fort Hare, South Africa, MSc Thesis. **March 2017**
- Characterisation of human pathogenic vibrios and methicillin-resistant *Staphylococcus aureus* (MRSA) from wild and tank cultured dusky kob (*Agyrosomus japonicus*) in the Eastern Cape Province, South Africa by Fri Justine, University of Fort Hare, South Africa, PhD Thesis. **March 2017**
- Production and glycaemic index of pudding prepared from maize, lima beans and tigernut flour blends by Adebayo Oluwatoyin FUTA, Ondo, MSc Thesis. **June 2017**
- Evaluation and Identification of Microbial Contaminants in Polyherbal Medicines used for the Treatment of Tuberculosis in Amathole District Municipality, Eastern Cape, South Africa. Famewo EB, PhD thesis from University of Fort Hare, South Africa. **2017**
- Assessment of anti-urease and Consequential Inhibitory Potentials of South African Honey Extracts on the Multiplication of Drug Resistant *vacA* and *cagA* positive *Helicobacter pylori* strains under acidic conditions. Callotte Dube, PhD thesis from University of Fort Hare, South Africa. **2017**
- Establishment of Interaction Partners of *Plasmodium falciparum* Heat Shock "Protein 7x (PfHsp70-x) by Monyai SF, student no: 3052221663 MSc Thesis from University of Venda, South Africa. **April 2018**
- Bioactivity and mechanism of action of the seeds of *Persea americana* (avocado) on some selected bacterial pathogens. PhD Thesis. Ms Christinah Seanego. University of Fort Hare, South Africa. **2018**
- Extraction and characterization of natural bioactive compounds from selected marine invertebrates collected from Phillip's Reef, Port Elizabeth in the Eastern Cape Province of South Africa. MSc Thesis. Cuthbert Kibungu. University of Fort Hare, South Africa. **2018**
- Molecular Characterisation of Metallo-Beta Lactamase and other Resistance Genes in *Pseudomonas aeruginosa* from Seven Tertiary Hospitals in South Western Nigeria. PhD thesis, Department of Pharmaceutical Microbiology, University of Ibadan. Mrs. Oluwatoyin Bola Olaniran **May 2019**
- External Reviewer, National Research Foundation Grants
Clinical and Environmental Risk Factors, the Metagenome and **August 2020**
Metabolome of *Helicobacter pylori* infection in a diverse South African Cohort

- External Reviewer Institute Merieux –NSIC-CLIMIDSON Young Investigator Award **October 2020**
- Consultant, Maastricht VI Project, Italy **2021**
- External Reviewer Institute Merieux –NSIC-CLIMIDSON Young Investigator Award **October 2021**

Part-time academic appointment

- Member West African *Helicobacter pylori* study group 2002
- Reviewer Journal of Public Health, Germany 2007
- Reviewer, Journal of Health and Epidemiology 2009-
- Reviewer, Current Microbiology 2010
- Reviewer, Journal of Microbiology and Antimicrobials 2010
- Reviewer, African Journal of Microbiology Research 2011
- Reviewer, African Journal of Biotechnology 2011
- Reviewer, International Research Journal of Microbiology 2011
- Member, Faculty of 1000, Journal of Public Health and Epidemiology 2010
- Reviewer, Vaccine 2012
- Reviewer, Gastroenterology Research and Practice 2012
- Reviewer, International Journal of Medicine and Medical Sciences 2013
- Reviewer, International Journal of Microbiological Research 2013
- Reviewer, Polish Journal of Microbiology 2013
- Reviewer, Tropical Medicine and International Health 2013
- Reviewer, British Microbiology Research Journal 2013
- Editorial Board Member, World Journal of Gastroenterology 2014
- Reviewer, World Journal of Gastroenterology 2014
- Reviewer, Online International Journal of Microbiology Research 2014
- Reviewer, BMC Public Health 2015
- Reviewer, Journal of Applied Life Sciences 2015
- Associate Lecturer, University of Lagos, Akoka 2014 – 2015
- Reviewer, Journal of Obstetrics and Gynaecology 2016
- Editor, Journal of Molecular Biology and Techniques 2016
- Reviewer, Journal of Medical Microbiology 2016
- Member of Review Team of BRAINS Year 2 Mentored Research Programme of the College of Medicine, University of Lagos 2016
- Reviewer, Clinical Microbiology and Infection 2017
- Reviewer, BMC Gastroenterology 2018
- Member, African-German Network of Excellence in Science (AGNES) 2017 - date
- Reviewer, African-German Network of Excellence in Science (AGNES) 2018 - date
- Member, National AMR Technical Working Group 2018 - date
- Reviewer, Nigerian Journal of Medicine 2019
- Reviewer, Pathogens and Global Health 2019

- Reviewer, PLoS ONE 2019
- Reviewer, International Journal of Microbiology 2019
- Reviewer, Microbial Drug Resistance 2020
- Reviewer, Health Education Research 2020
- Reviewer, Jordan Journal of Biological Sciences 2020
- Reviewer, International Journal of General Medicine 2020
- Reviewer, BMC Research Notes 2020
- Reviewer, Pathogens and Global Health 2020
- Prof, Microbiology, MTU 10-2019
- Reviewer, PLoS NTD 2021
- Reviewer, Frontiers in Microbiology 2021
- Member of Review Team of BRAINS Year 7 Mentored Research Programme of the College of Medicine, University of Lagos 2021
- Chair, Oral Abstract Session 02: CHAIR conference, NIMR 2021
- Chair, Oral Abstract Session 02: CHAIR conference, NIMR 2021
- Special Issue Editor, Antibiotics 2022 – 2023
- Special Issue Editor, Micro-organisms 2022 - 2023
- Reviewer, Scientific Reports 2022
- Reviewer, Microbes and Infection 2022
- Reviewer, Clinical Microbiology and Infection 2022
- Reviewer, BioMed Research International 2022
- Reviewer, International Journal of Microbiology 2022

DETAILS OF SUPERVISION/WORK/RESEARCH EXPERIENCE

Co-supervisor, M.Sc students

1. Abosede David. ‘Isolation and characterization of *Lactobacillus* spp from saliva of caries-free adults and dental plaque in patients having dental caries in LUTH, Lagos’ CMUL, M.Sc (1997).
2. Aweh Asabi. Beta-lactamase and bacteriocin production by *Lactobacillus* spp associated with dental caries. CMUL, M.Sc 1998.
3. Uzoewulu Ngozi. ‘Antibiotic susceptibility patterns, beta-lactamase production and plasmid profile of *Pseudomonas aeruginosa* isolated from environmental samples at LUTH.’ CMUL, M.Sc. 1998
4. Gana Patience. Isolation of *Campylobacter* spp in AIDS patients. CMUL, M.Sc 1998.
5. Olorunishola Idowu. Prevalence of EHEC 0157:H7 in patients with diarrhoea in Lagos, Nigeria. CMUL, M.Sc. 1999.

6. Onibokun Helen. Plasmid profile of *Escherichia coli* 0157:H7 from apparently healthy animals. CMUL, M.Sc. 2002.
7. Agboju Vincent. 'Public Health implications, pollution levels and contamination of surface waters with pathogenic *Escherichia coli* in parts of Zaria, Nigeria.' ABU, Zaria. M. Sc. 2004
8. Alao Felix. 'Prevalence of *Salmonella enterica Typhi* amongst food handlers from bukkas in Lagos, Nigeria.' CMUL, M. Sc. 2006.
9. Atiba Adedamola Adesuwa. 'Comparism of *invA* and *salm* primers in PCR-based identification of *invA* gene in Salmonella isolates from meat samples' University of Lagos, Akoka. M.Sc. 2010.
10. Elizabeth Agbebaku. Application of stool-PCR for the diagnosis of *H. pylori* from stool. Prevalence Of EHEC In Children With Diarrhoea. University of Lagos, Akoka, M.Sc. 2011.
11. Esther Oyagbola. 'Isolation And Characterization of *Campylobacter* spp From Chicken Droppings. CMUL. M. Sc. 2013.
12. Akintimehin Faith O. 'Prevalence, antimicrobial susceptibility and plasmid profiling of *Salmonella* spp from raw meat sold in Lagos.' CMUL, M.Sc. 2014.
13. Oluborode Olufikayo. 'Antibiotic susceptibility pattern and molecular typing by PCR- RAPD analysis of clinical and environmental Isolates of *Pseudomonas sp.*' CMUL, M.Sc. 2014
14. Jolaiye Tolulope F. 'Prevalence Of EHEC In Children With Diarrhoea.' CMUL, M.Sc. 2014.
15. Emealih Gift Amarachi. 'Prevalence of EHEC 0157:H7 in cows with mastitis'. University of Lagos. M.Sc 2015.
16. Mike Esse. Plasmid profile and antibacterial activity of honey on *E. coli* and *S. aureus* isolated from wound sepsis. University of Lagos, Akoka. M.Sc. 2016.
17. Oreva Ogbor. Molecular typing of *Campylobacter* spp isolated from farms in Lagos and Ogun state. M.Sc 2017 completed
18. Ugwuanyi Chijindu. Molecular Characterization of Efflux Pumps and Biofilm Formation in Clinical Isolates of Multi Drug Resistant *Pseudomonas aeruginosa* From Federal Medical Centre Abeokuta. MSc 2019.
- 19) Akinpelu Sharon. Molecular Characterization of Efflux Pumps and Biofilm Formation in Clinical Isolates of *Escherichia coli* and *Klebsiella* From Two Hospitals in South West Nigeria. MSc 2019.
- 20) Orjih, Ijeoma. Molecular Characterization of Efflux Pump and Biofilm Formation genes in

Clinical Isolates of Multi Drug Resistant *Staphylococcus aureus*. MSc 2019.

21) Olubiose Elizabeth. Molecular and Phenotypic Characterization of Efflux Pump and Biofilm Formation in Multi Drug Resistant Non-Typhoidal *Salmonella* spp Isolated From Food Animals and Handlers in Lagos. MSc 2019.

22) Essiet Utibeima. Molecular characterization of efflux pump and biofilm formation genes in clinical Isolates of *Staphylococcus aureus*. MSc 2021

23) Adetunji Islamiyyah. Molecular characterization of efflux pump and biofilm formation genes in *Salmonella* species Isolated from food animals and Humans. MSc 2021

University of Lagos

24) Yusuf, Morufat. Comparative molecular analysis of an outer membrane protein (*ompC*) of non-typhoidal *Salmonella* serovars isolated from different sources in Lagos. MSc - ongoing

25) Adeyelu Oluwatoyin Olawunmi. Plasmid replicon typing and integrons classes of *Pseudomonas aeruginosa* strains isolated from clinical samples of patients. MSc – ongoing

26) Wali Kinikanwo. The Role of Water Hyacinth (*Eichornia crassipes*) as a Reservoir of *Vibrio* species in Lagos Lagoons. MSc - ongoing

27) Adedokun Latifat Folake. Plasmid replicon typing and integrons classes of *Salmonella* serovars isolated from food animals and humans in Lagos. MSc – ongoing.

28) Bode Elizabeth Ebihomo. Microbial composition and dynamics of the human skin flora. PGD, completed

29) Awodipe Ayobola. Metagenomic analysis of septicaemic under five children from FMC Ebute Metta- a pilot study. MSc-on going

30) Okeke Uzoma. Metagenomic analysis of the blood and gut microbiome of apparently healthy under five children. MSc-on going

31) Wemimo Akingboye. Molecular characterization and risk factor of septicaemic under five children in a tertiary hospital in Lagos state. MSc-on going

32) Aniekwe Onyinye. Co-infection of *Helicobacter pylori* and parasites in children of selected low-income communities in Lagos state Nigeria. MSc- on-going

Ph.D students co-supervision:

1. Abiodun Seriki. 'Correlation of *Helicobacter pylori* virulence factors with gastro-duodenal diseases: improvement of diagnosis and treatment. **Completed 2018**
2. Abraham Ajayi. 'Virulotyping and Antimicrobial analysis of *Salmonella Enterica* Isolated from Humans and Animals in Nigeria: Improvement of Diagnosis and Treatment. **Completed 2021**
3. Tolulope Jolaiya. 'Analysis of *Helicobacter pylori* infections in Nigeria, bacterial virulence factors but lack of pathology.' **Completed 2022**
4. Oyedeji Kolawole. 'A study of *Helicobacter pylori* infection in patients with upper gastrointestinal pathology in Western Nigeria.' **CMUL, Completed, 2005**
5. Onyenwe Nathaniel. 'The molecular study of multi drug resistant *Salmonella enterica* serovar Typhi in Southeast Nigeria.' University of Ibadan. **Completed 2012.**
6. Olalekan Sola. 'Molecular Characterisation of *Staphylococcus aureus* from HIV infected individuals' LAUTECH, **Completed 2013.**
7. Eruteya Onoriode Christian. 'Molecular Characterization of *Listeria monocytogenes*.' University of Port-Harcourt, **Completed 2014.**
8. Ezeamagu Cajethan. 'Methicillin resistance study and plasmid profile of *Staphylococcus* species isolated from clinical and community/environmental samples in Ibadan South West Nigeria'. University of Ibadan, **Completed 2014.**
9. Mairiga Jamey Peter. 'Phenotypic and genotypic study of isoniazid acetylation in TB/HIV co-infected patients in Nasarawa state.' University of Lagos, **Completed, 2014.**
10. Ezeh Abimbola. 'Phenotypic and genomic characterization of *Cronobacter sakasakii* isolated from powdered infant formula milk in Nigeria.' University of Lagos. **Completed 2017.**
11. Alao Felix. 'Molecular epidemiology of *Staphylococcus saprophyticus* virulence genes isolated from patients presenting with urinary tract infections in Lagos, State.' University of Lagos. **Completed 2022**
12. Fowora Muinah. 'Correlation of *Helicobacter pylori* virulence factors with gastro-duodenal diseases: improvement of diagnosis and treatment.' University of Benin. **Completed 2019.**
13. Ngnameko Corinne. 'Identification of inhibitors of *Helicobacter pylori* from Cameroonian medicinal plants'. University of Yaounde 1, Cameroon. **Completed 2020**

14. Yisau Jacob. Characterization of virulence and antibiotic resistance genes, of Enterohemorrhagic *Escherichia coli* from humans, animals and food sources. University of Benin, 2016 – date
15. Ilozue Christian. Phenotypic and Molecular Characterization of *Campylobacter* isolates from poultry and humans in Kaduna State. Ahmadu Bello University, Zaria, 2019 – date.
16. Oladapo Bolanle. Pathogenicity Factors in *Acinetobacter baumannii*. College of Medicine, University of Lagos, Nigeria. 2022 -

Research Experience

RESEARCH GRANTS

- I. Roche Foundation Research Grant for ‘Molecular Epidemiology of *Helicobacter pylori* from South-west, Nigeria’. ((NIMR/DGO/2/SM/11)
Role: Principal Investigator August, 1999
- II. International Foundation for Science (IFS) grant on ‘Isolation and Molecular Characteristics of *Salmonella enterica* Typhi isolated from food handlers at bukas and from farm animals’. (E/4020-1) April, 2006
Role: Principal Investigator
- III. Recipient of International Centre for Genetic Engineering and Biotechnology (ICGEB) grant on ‘Diagnostic methods for the diagnosis of *Helicobacter pylori* and epidemiology of enteric *Helicobacter* infections from patients in Nigeria’. (CRP/NIG07-02) Sept. 2007-2010
Role: Principal Investigator
- IV. Recipient of International Foundation for Science (IFS) grant on ‘Prevalence and molecular typing of *Salmonella* spp isolated from foods sold by food handlers’. (E/4020-2) June 2009
Role: Principal Investigator
- V. Recipient of German Research Foundation (DFG) grant ‘Correlation of *Helicobacter pylori* virulence factors with gastro-duodenal diseases: improvement of diagnosis and treatment’. HA 2697/12-1, May 2010 – April 2014
Role: Co-Principal Investigator
- VI. African Centre for Excellence on Neglected Tropical Diseases (NTD) and Forensic Biotechnology (Ahmadu Bello University Zaria, Kaduna State).
Role: Collaborating Partner and Institution. 2014-2024.
Capacity Building: 2017 - 2020

- VII. Recipient of German Research Foundation (DFG) grant ‘Analysis of *Helicobacter pylori* infections in Nigeria, bacterial virulence factors but lack of pathology’. (HA 2697/18-1), July 2015 – July 2018
Role: Co-Principal Investigator
- VIII. Recipient of TETFUND for project on ‘Characterisation of *Haemonchus contortus* and studies of its somatic native and recombinant protein as candidate vaccine antigen in goats’. July 2016 - date
Role: Co-Investigator
- IX. Recipient of Nigerian Institute of Medical Research, Internal Grants for ‘An Assessment of the role of Healthcare workers, food handlers and the environment as reservoirs of *Vibrio cholerae* in Lagos state, Nigeria. 1NIMRGA0010-18-01, February 2018 - 2020
Role: Principal Investigator
- X. Recipient, Alexander von Humboldt Foundation award for the hosting of First NIMR Humboldt Kolleg, an International Conference, Oct. 15th – 19th 2019. 108 participants and 60 invited guests in attendance.
Role: Convener
- XI. First NIMR – Institut Merieux Young Investigator Award in West Africa
Role: Convener **2020 - 2022**
- XII. German-West African Centre for Global Health and Pandemic Prevention (G-WAC).
Role: Collaborator under other DAAD Global Centres and AvH Research Hubs on Pandemics. **April 2021**
- XIII. Recipient, Nigerian Institute of Medical Research Internal Grants for “Environmental Assessment of AMRG and ARB from waste effluents and soil of livestock farms in Lagos State, Nigeria.’ **2021- 2023**. 4NM-SRGT-21-0073
Role: Principal Investigator
- XIV. Exploration of Marine bacterial Community genomics in Nigerian Coastal Waters for Prospective Novel Drugs and Biopharmaceuticals. Unilag, TETFUND awarded to Dr. M. Salu as PI **2022**
Role: Collaborator
- XV. Richen funding for the launch of the African Helicobacter and Microbiota Study Group
Role: Founding President **2022**

Equipment grant

- i. Recipient of TWAS equipment grant (02-005RG/BIO/AF/AC) April, 2003
- ii. Recipient, Alexander von Humboldt, equipment grant Sept 2001
- iii. Recipient, Alexander von Humboldt, equipment grant (3.4-8151/11014) May 2011
- iv. Recipient, Alexander von Humboldt, equipment grant (V-8151/17008) April 2017
- v. Recipient, Alexander von Humboldt, grant (3.4-8151 / 21 006) January 2021
- vi. MinIon Sequencer, HWU grant May 2021

Book Awards

- Molecular Infection Biology, Edited by Hacker and Heesemann and awarded by Alexander von Humboldt 2002
- Helicobacter pylori* protocols, Edited by Clayton and Mobley and awarded by Alexander von Humboldt 2002
- Molecular Biology of the Cell by Alberts et al. Fourth Edition awarded by Alexander von Humboldt 2003
- Molecular Cloning vols 1 & 2, awarded by IFS 2006
- Manual of Clinical Microbiology vols 1&2, 9th Edition and awarded by ICGEB 2008
- Essentials of nucleic acid analysis, awarded by ICGEB 2009
- Evidence based infectious diseases, awarded by ICGEB 2009
- PCR trouble shooting and optimization, Edited by Kennedy and Oswald and awarded by DFG 2012
- Helicobacter pylori*, Edited by Boyanova and awarded by DFG 2012

IX. Research

2018

a) Dissertation and Thesis

Isolation and characterization of petroleum utilizing organisms in garage soils. B.Sc. thesis.

Effect of temperature and pH on the growth rate of *Campylobacter jejuni* and *C. coli*. M.Sc.
Molecular epidemiology of local strains of *Campylobacter jejuni* and *C. coli*. PhD thesis.

X. Publications in the last five years (2017 – 2022)

Books already published:

a) Books and/or Articles in Books:

S.I. Smith, A. Seriki, and A. Ajayi (2020). Molecular epidemiology of *Salmonella*
In Press. Chapter 14: Molecular Food Microbiology. Edited by Dongyou Liu. CRC Press
for Taylor and Francis Group.

b) Articles that have already appeared in learned journals

1. Yisau JI, Adagbada AO, Bamidele T, Fowora M, Brai BIC, Adebessin O, Bamidele M, Fesobi T, Nwaokorie FO, Ajayi A, **Smith SI (2017)**. Assessment of Knowledge of Participants on Basic Molecular Biology Techniques after 5-day Intensive Molecular Biology Training Workshops in Nigeria. *Biochem Mol Biol Educ* doi: 10.1002/bmb.21039.
2. Uzeh R, Ihekire V, **Smith S**, Fowora M (2017). Phenotypic and Molecular detection of multi-drug resistant *Salmonella Enteritidis*, *Salmonella Typhimurium* and *Salmonella* species in retail raw beef. *Asian Pacific J Trop Dis*. 7: 482 – 485.
3. Smith Sam, **Smith Stella** and Adedeji M (2017). The Influence of the Nigerian newspaper on Lassa fever reportage. *Int J Commun and Health*. 11: 76 – 86.
4. Ute Harrison, Muinah A Fowora , Abiodun T Seriki , Eva Loell , Susanna Mueller, Margaret Ugo-Ijeh , Charles A Onyekwere , Olufunmilayo A Lesi, Jesse A Otegbayo, Adegboyega Akere, Dennis A Ndububa , Olusegun Adekanle , Ebere Anomneze , Fatimah B Abdulkareem , Isaac A Adeleye , Alexander Crispin , Gabriele Rieder, Wolfgang Fischer , **Stella I Smith** , Rainer Haas (2017). *Helicobacter pylori* infection in Nigeria is associated with low prevalence and divergent antibiotic resistance patterns. *PLOS ONE* 12(5): e0176454. <https://doi.org/10.1371/journal.pone.0176454>
5. Seriki AT, **Smith SI**, Adeleye AI, Fowora MA, Onyekwere C, Lesi O, Ndububa D, Adekanle O, Otegbayo JA, Akere A (2017). *Helicobacter pylori* cytotoxin-associated gene A protein among adult dyspeptic patients in South-West Nigeria. *African J Microbiol Res*, Vol. 11(17), pp. 681-686, 7 May, 2017 DOI: 10.5897/AJMR2017.8548^[1]_{SEP}

6. **Smith SI**, Ajayi A (2017). Viral causes of diarrhea in children in Africa: A literature Review. *J Mol Biol. Tech* 1: 104
7. Cajethan O. Ezeamagu, Obasola E. Fagade, **Stella I. Smith** and Adeniyi A. Ogunjobi (2017). Evaluation of Resistance Pattern and Plasmid Profile of *Staphylococcus* Species Isolated from Clinical and Community Samples in Ibadan South-West, Nigeria. *Journal of Advances in Microbiology* 3(3): 1-9.
8. **Smith SI**, Seriki A, Ndip R and Pellicano R (2018). *Helicobacter pylori* infection in Africa: 2018 literature update. *Minerva Gastroenterol Dietol*. doi: 10.23736/S1121-421X.18.02464-9.
9. Abiodun Tola Seriki, **Stella I Smith**, Adeyemi I Adeleye and Muinah A Fowora (2018). Analysis of low-level tetracycline resistance in clinical isolates of *Helicobacter pylori* among dyspeptic patients in South-West Nigeria. *J Global Antimicrobial Resist* S2213-7165(18)30005-5. doi: 10.1016/j.jgar.2018.01.003.
10. Chinwe S Alaribe, Sunday Adesegun, Abel O. Idowu, Onome Egere, Chineye Ihemedu, Herbert Coker, and **Stella Smith** (2018). Cytoprotective, healing and anti-*Helicobacter pylori* activities of stem bark powder extracts and butanol fraction (BNL) of alkaloid rich *Nauclea latifolia* SM (Rubiaceae). *West Afr J Pharmacy* 29 (1) 110-120.
11. **Stella Smith**, Tolu Jolaiya, Muinah Fowora, Pia Palamides, Favour Ngoka, Moses Bamidele, Olufunmilayo Lesi, Charles Onyekwere, Rose Ugiagbe, Ifeanyi Agbo, Dennis Ndububa, Olusegun Adekanle, Abimbola Adedeji, Isaac Adeleye, Ute Harrison (2018). A survey of Clinical and Socio-demographic factors as risk Factors for Acquisition of *Helicobacter pylori* Infection in Nigeria. *Asian Pacific J Cancer Prevention* 19: 1851 – 1857. Doi:10.22034/APJCP.2018.19.7.1851
12. **Stella I Smith**, Jacob I Yisau, Nkiru A David, Muhammed A N Adeboye, Stephen Oguche, Moses Bamidele, Adeniyi Adeneye, Abimbola M. Adedeji, Zaidat A Musa, Mustapha Bello, Nma Jiya, Ajoke O Adagbada, Francisca Nwaokorie, Olanrewaju T Adedoyin, Adebiyi O Olowu (2018). Leading Causes of Childhood Mortality in Selected Communities in Northern Nigeria. *Sri Lanka J Med* Vol. 27 No.1, 2018. DOI: <http://doi.org/10.4038/sljm.v27i1.73>.
13. Nathan E. Agbor, Seraphine N. Esemu, Lucy M. Ndip, Noline F. Tanih, **Stella I. Smith** and Roland N. Ndip (2018). *Helicobacter pylori* in patients with gastritis in West Cameroon: prevalence and risk factors for infection. *BMC Res Notes* 11:559 <https://doi.org/10.1186/s13104-018-3662-5>.
14. Ajayi A and **Smith SI** (2018). Recurrent Cholera Epidemics in Africa: Which way forward? - A Literature Review. *Infection* DOI: 10.1007/s15010-018-1186-5.
15. Abimbola R Ezeh, Ben D Tall, Jayanthi Gangiredla, **Smith SI**, Olusimbo O Aboaba (2018). Determination of the phylogenetic relatedness of *Cronobacter* spp. isolated from powdered infant formula retailed in Nigeria using pan-genomic DNA microarray. *International Journal of Research - GRANTHAALAYAH* 6: 327 – 340. DOI:10.5281/zenodo.1345207.
16. O.S. Amoo, **S.I. Smith**, I.A.O. Ujah, D. Oladele, N. David, K.S. Oyedeji, F. Nwaokorie,

- T.A. Bamidele, E.E. Afocha, O. Awoderu, Y. Adesanmi J. Iwuora, A. Adeneye, M. Bamidele, S. Nduaga, F. Ige, B. Ajayi, A.Z. Musa, N. Idika, O.C. Ezechi and A. Ajayi (2018). Socio economic and health challenges of internally-displaced persons as a result of 2012 flooding in Nigeria. *Ceylon J Sci* 47: 229-234 DOI: <http://doi.org/10.4038/cjs.v47i3.753>.
17. Oluborode O. B, **Smith SI**, Seriki T.A., Fowora M. Abraham Ajayi, Coker A.O (2018). Antibiotic Susceptibility Pattern And Molecular Typing By PCR-RAPD Analysis Of Clinical And Environmental Isolates of *Pseudomonas aeruginosa*. *Microbiol Biotechnol Lett* 46: 434 – 437. <http://dx.doi.org/10.4014/mbl.1805.05007>
 18. **Smith SI**, Jolaiya T, Onyekwere C, Fowora M, Ugiagbe R, Agbo I, Cookey C, Lesi O, Ndububa D, Adekanle O, Palamides P, Adeleye I, Njom H, Ayodeji I, Clarke A, Pellicano R. (2018). Prevalence of *Helicobacter pylori* infection among dyspeptic patients with and without type 2 diabetes mellitus in South-West and South-South regions of Nigeria. *Minerva Gastroenterol Dietol*, doi: 10.23736/S1121-421X.18.02528-X. [Epub ahead of print]
 19. Oreva Ogbor, Abraham Ajayi, Andreas E. Zautner, **Stella I. Smith** (2019). Antibiotic susceptibility profiles of *Campylobacter coli* isolated from poultry farms in Lagos Nigeria – a pilot study. *European J Microbiol Immunol* DOI: 10.1556/1886.2019.00007
 20. Ayodeji Idowu; Asisipho Mzukwa; Ute Harrison; Pia Palamides; Rainer Haas; Melvin Mbaio; Razinah Mamdoo; Jonathan Bolon; Tolulope Jolaiya; **Stella Smith**; Reidwaan Ally; Anna Clarke and Henry Njom (2019). Detection of *Helicobacter pylori* and its virulence genes (*cagA*, *dupA*, and *vacA*) among patients with gastroduodenal diseases in Chris Hani Baragwanath Academic Hospital, South Africa. *BMC Gastroenterology*: 19:73 <https://doi.org/10.1186/s12876-019-0986-0>.
 21. Ajayi A, **Smith SI**, Adeyemi Adeleye, Kalpy Julien COULIBALY, Jolaiya Tolulope Funbi, and Sojobi Ibidun (2019). Serotype Distribution and Virulence Profile of *Salmonella* enterica Serovars Isolated from Food Animals and Humans in Lagos Nigeria. *Microbiol Biotech Lett* 47: 310- 316. <http://dx.doi.org/10.4014/mbl.1808.08007>
 22. **Smith S**, Fowora M, Pellicano R (2019). Infections with *Helicobacter pylori* and challenges encountered in Africa. *World J Gastroenterol* 25: 3183-3195
 23. **Stella I SMITH**, Jolaiya Tolu, Fowora Muinah, Ugiagbe Rose, Onyekwere Charles, Agbo Ifeanyi, Lesi Olufunmilayo, Palamides Pia, Adedeji Abimbola, Ndububa Dennis, Adekanle Olusegun, Adeleye Isaac, Bamidele Moses, Ngoka Favour, Ayodeji Idowu, Njom Henry, Rinaldo PELLICANO (2019). Comparison of PCR-based genotyping of *Helicobacter pylori* by direct PCR from biopsies and cultures from patients with dyspepsia in Nigeria. *Minerva Biotechnologica* 31: 116 - 21.
 24. Abraham Ajayi, **Stella I Smith**, Kalpy Julien COULIBALY, Ibidunni O Bode-Sojobi,

- René Kouamé Yao, René Kouamé Yao, Adeyemi Isaac Adeleye (2019). Molecular Diversity and Antibiotic Resistance Gene Profile of *Salmonella enterica* serovars Isolated from Humans and Food Animals in Lagos Nigeria. *Acta Microbiologica et Immunologica Hungarica*. 66 (4), pp. 509–527, DOI: 10.1556/030.66.2019.034
25. Corinne Raïssa NGRAMEKO, Frederic Nico NJAYOU, Muinah FOWORA, Fredy Brice SIMO NEMG, Paul MOUNDIPA FEWOU and **Stella Ifeanvi SMITH (2019)**. Inhibitory effect of medicinal plants from Cameroon on the growth and adhesion of *Helicobacter pylori*. *European J Integrative Medicine* 30: <https://doi.org/10.1016/j.eujim.2019.100957>.
 26. Ajayi A, **Smith SI**, Muinah Fowora, Ibidunni Bode-Sojobi, Kalpy COULIBALY, Adeyemi Adeleye (2019). Plasmid Profile and Role in Virulence of *Salmonella enterica* serovars Isolated from Food Animals and Humans in Lagos Nigeria. *Pathogens and Global Health*, 113:6, 282-287, DOI: 10.1080/20477724.2019.1691364.
 27. Nwaogaraku CN, **Smith, SI**, and Badaki JA (2019). Non detection of *mecA* gene in methicillin resistant *Staphylococcus aureus* isolates from pigs. *Afr J Clin Exper Microbiol* 20 (2): 159 – 163.
 28. Jolaiya TF, Fowora MA, Onyekwere C, Ugiagbe R, AGbo I, Ndububa N, Adekanle O, Njom H, Ayodeji I, Adeleye I, Bamidele M, Ngoka F, Palamides P, **Smith S**, Lesi O. (2020). Duodenal Ulcer Promoting Gene (DupA), Plasticity region gene and Sigma factors in *H. pylori* strains in Nigeria. *J Infect Dev Ctries*. 14:162-168. doi: 10.3855/jidc.11746.
 29. Dickson A. Musa, Kolawole H. Aremu, Zainab A. Adebayo, Rinaldo Pellicano, **Stella I. Smith (2020)**. Molecular detection of main resistance genes by nested PCR in *Salmonella* spp. isolated from raw meat and stool samples in Niger State, Nigeria. *Minerva Biotechnologica* 32: 58 – 63. DOI: 10.23736/S1120-4826.20.02611-7
 30. Dickson A. Musa, Kolawole H. Aremu, Zainab A. Adebayo, Abraham Ajayi, **Stella I. Smith (2020)**. Simplex PCR assay for detection of blaTEM and gyrA genes, Antimicrobial Susceptibility Pattern and Plasmid Profile of *Salmonella* spp. isolated from Stool and Raw meat samples in Niger State, Nigeria. *Microbiol Biotechnol Lett* 48: 230 – 235.
 31. Corinne Raïssa Ngrameko, Lucia Marchetti, Barbara Zambelli, Antonio Quotadamo, Davide Roncarati, Davide Bertelli, Frederic Nico Njayou, **Stella I. Smith**, Paul F. Moundipa, Maria Paola Costi, Federica Pellati (2020). New Insights into the Chemical Characterization of Bioactive Compounds from the Medicinal Plant *Spathodea campanulata* P. Beauv. and their Activity against *Helicobacter pylori*. *Antibiotics* 9, 258; doi:10.3390/antibiotics9050258
 32. Akinpelu S, Ajayi A, **Smith SI**, Adeleye AI (2020). Efflux pump activity, biofilm formation and antibiotic resistance profile of *Klebsiella* spp isolated from clinical samples at Lagos University Teaching Hospital. *BMC Res. Notes* 13: 258 <https://doi.org/10.1186/s13104-020-05105-2>

33. Pia Palamides, Tolulope Jolaiya, Ayodeji Idowu, Eva Loell, Charles Onyekwere, Rose Ugiagbe, Ifeanyi Agbo, Olufunmilayo Lesi, Dennis Ndububa, Olusegun Adekanle, Manuel Carranza, Reidwaan Ally, Henry Njom, Anna Clarke, Adeleye IA, Harrison U, Wolfgang Fischer, **Stella Smith**, Rainer Haas (2020). *Helicobacter pylori* patient isolates from South Africa and Nigeria differ in their virulence factor expression/pathogenicity profile and associated gastric disease outcome. *Scientific Reports* 10:11409 | <https://doi.org/10.1038/s41598-020-66128-0>
34. Ajayi A, Jolaiya T and **Smith SI** (2020). Evolving Technologies in Gastrointestinal Microbiome Era and their Potential Clinical Applications. A review. *J Clin Med* 9, 2565; doi:10.3390/jcm9082565.
35. Sam Smith, **Stella Smith** and Abraham Ajayi (2020). Content analysis of mass media reportage on coronavirus-19 (COVID-19) in Nigeria from six widely circulated Nigerian newspapers. *J Studies Soc Sci Hum* 6 (3): 88 – 99. ISSN: 2413-9270.
36. Alao FO, **Smith SI**, Omonigbehin EA and Adeleye IA (2020). Prevalence of Virulence Genes in *Staphylococcus saprophyticus* Isolated From Women With Urinary Tract Infections in Lagos state. *Scientific African* doi: <https://doi.org/10.1016/j.sciaf.2020.e00626>.
37. Elizabeth Tolulope Olubisose, Abraham Ajayi, Adeyemi Isaac Adeleye and **Stella Ifeanyi Smith** (2021). Molecular and Phenotypic Characterization of Efflux Pump and Biofilm in Multi-Drug Resistant Non-Typhoidal *Salmonella* Serovars Isolated from Food Animals and Handlers in Lagos Nigeria. *One Health Outlook* 3 (2): <https://doi.org/10.1186/s42522-021-00035-w>
38. **Smith SI** and Ajayi A. (2021). What can we expect from emerging technologies in microbiome era? Editorial *Minerva Biotechnologica* 2021 mese;32(0):000–000 Doi: 10.23736/S1120-4826.20.02744-5.
39. Florence Chijindu Ugwuanyi, Abraham Ajayi, David Ajiboye Ojo, Adeyemi Isaac Adeleye, **Stella Ifeanyi Smith** (2021). Evaluation of Efflux Pump Activity and Biofilm Formation in Multidrug Resistant Clinical Isolates of *Pseudomonas aeruginosa* Isolated from a Federal Medical Center Nigeria. *Annals of Clinical Microbiology and Antimicrobials*, 20 (1):11. doi: 10.1186/s12941-021-00417-y.
40. Abraham Ajayi, Tolulope Jolaiya, **Stella Ifeanyi Smith** (2021). Direct detection of *Helicobacter pylori* from Biopsies of Patients in Lagos, Nigeria Using Real-time PCR – a Pilot Study. *BMC Research Notes* 14: 90. doi.org/10.1186/s13104-021-05505-y
41. Orjih CI, Ajayi A, Alao OF, Adeleye AI and **Smith SI** (2021). Characterization of biofilm formation in clinical urinary isolates of *Staphylococcus aureus* from five hospitals in Lagos State, Nigeria. *African Journal of Clinical and Experimental Microbiology* 22 (2): 164-169.
42. Smith S, Ajayi A, **Smith SI** (2021). Newspaper Reportage of Rape Cases in Nigeria:

Influence of Covid-19 Associated Lockdown. *Eur J Soc Sci* 62: 6-15.

43. Ezeh AR, **Smith SI**, Aboaba OO (2021). Stress Tolerance and Antibiotic Susceptibility of *Cronobacter* spp Isolated From Powdered Infant Formula Retailed in Nigeria. *Int J Res – GRANTHAALAYAH* 9(6):190-202; DOI: [10.29121/granthaalayah.v9.i6.2021.3989](https://doi.org/10.29121/granthaalayah.v9.i6.2021.3989)
44. **Stella Ifeanyi Smith**, Abraham Ajayi, Tolulope Jolaiya, Charles Onyekwere, Mashiko Setshedi, Christian Schulz, Jesse Abiodun Otegbayo, Roland Ndip, Yakhya Dieye, Mohamed, Reidwaan, Revathi Gunturu, Jaka Hyasinta, Rose Ugiagbe, Dennis Ndububa, Anthony Arigbabu (2021). *Helicobacter pylori* infection in Africa: update of the current situation and challenges. *Digestive Diseases*. DOI: 10.1159/000518959.
45. Salako BL. Ajayi A, Smith S. (2021). Special Edition on Neglected Tropical Diseases Cholera in Nigeria: Epidemiology, Risk Factors, and Response -A Review. *Proceedings of the Nigerian Academy of Science*, 24-33.
46. Olufemi Samuel Amoo, Oluwatoyin Awoderu, Jacob Yisau, David Oladele, Aghata Nkiru David, Toyosi Raheem, Mabel Uwandu, Moses Bamidele , Toun Wuraola Fesobi, Adeshina AbdusSalam, Samuel Nduaga, Chinedum Taahie Oparaugo, Morakinyo Ajayi, Francisca Ogbonna, Adesola Zainab Musa, Abimbola Adedeji, Fehintola Ige, Okechukwu Ihemanna, Bile Nuhu, Uzoma Okebugwu, Imam Wada Bello, Tochukwu Ifeanyi Onuigbo, Amaka Stephanie Ikemefuna, Joy Isioma Oraegbu, Hammed Agboola, Jide Idris, Abraham Ajayi, Babatunde Lawal Salako, **Stella Ifeanyi Smith** (2022). Assessment of potential factors that support the endemicity of cholera in Nigeria from food handlers, health workers and the environment: Potential factors that support the endemicity of cholera in Nigeria. *Microbiologica Medica* 36: 10058.
47. Seraphine Nkie Esemu, Fondzenyuy Ahmadou Yaya, Wandah Peterson Nkengum, Nene Kaah Keneh, Jerome Achah Kfusi, **Stella I. Smith**, Lucy Mande Ndip, Roland N. Ndip (2022). Prevalence and characterization of methicillin-resistant *Staphylococcus aureus* from meat retail shops and meat handlers in the Buea municipality. *International Journal of Tropical Disease and Health* 42:13 – 27.
48. Islamiyyah Adefunke Adetunji, Abraham Ajayi, Adeyemi Isaac Adeleye, Rinaldo Pellicano, **Stella Ifeanyi Smith** (2022). Characterization of Some Virulence Genes in Non-typhoidal *Salmonella* Isolated from Food Animals and Handlers in Lagos. *Minerva Biotechnology and Biomolecular Research*. *Minerva Biotechnologica* 34(2):80 – 5
49. Sanyaolu, A, Marinkovic A, Prakash S, Haider N, Williams M, Okorie C, Badaru O, **Smith S** (2022). SARS-CoV-2 Omicron variant (B.1.1.529): A concern with immune escape. *World Journal of Virology* 11(3):137-143.

50. Tolulope F. Jolaiya, Sascha D. Braun, Abraham Ajayi, Akitoye O. Coker, Ralf Ehricht, Stefan Monecke, Rinaldo Pellicano, Stella I. Smith (2022). Prevalence of Non-O157 *Escherichia coli* serotypes isolated from the stool of under five years old children presenting with diarrhea in Lagos, Nigeria. *Minerva Biotechnology and Biomolecular Research* 34(3):131-6. DOI: [10.23736/S2724-542X.22.02905-4](https://doi.org/10.23736/S2724-542X.22.02905-4)
51. **Smith SI**, Ajayi A, Jolaiya T and Essiet U (2022). Incidence, Diagnosis and Treatment of *Helicobacter pylori* Infection in Nigeria. *Nigerian Journal for Gastroenterology and Hepatology*. 14(1):2-10. DOI: 10.4103/njgh.njgh_10_22.
52. Malfertheiner et al. (2022). Management of *Helicobacter pylori* infection—the Maastricht VI/Florence Consensus Report. *GUT* utjnl-2022-327745. doi: 10.1136/gutjnl-2022-327745
53. Sanyaolu AO, Marinkovic A, Prakash S, Badru S, **Smith SI** (2022). Perspective Chapter: SARS-CoV-2 variants-Two Years Post-Onset of the Pandemic. July 2022. In Book: SARS-CoV-2 Variants-Two Years After. Publisher: Intech Open.
54. **Stella I. Smith**, Jacob K. P. Kwaga, Sati S. Ngulukun SS, Abimbola Adedeji, Tolulope Jolaiya T, Abraham Ajayi, Junaid Kabir (2022). Antibiotic Prescription Practices amongst Veterinarians in Nigeria. *Research in Veterinary Science* 152<https://doi.org/10.1016/j.rvsc.2022.07.028>
55. Sanyaolu AO, Abbasi A, Marinkovic A, **Smith S**, Prakash S (2022). COVID-19 and the human gut microbiome: An under-recognized association. *Chonnam Medical Journal* 58(3):96-101; DOI: 10.4068/cmj.2022.58.3.96

g) Technical Reports and Monographs

1. Molecular epidemiology of *H. pylori* isolated from patients with gastritis and peptic ulcer.
2. Molecular epidemiology of *Salmonella Typhi* from different sources.
3. Molecular epidemiology of *H. pylori* from patients with gastritis, peptic ulcer and gastric cancer.
4. Isolation and Molecular Characteristics of *S. Typhi* from food handlers in bukkas and farm animals.
5. Diagnostic methods for the detection of *Helicobacter pylori* and epidemiology of enteric *Helicobacter* infections from patients in Nigeria.
6. Prevalance and molecular typing of *Salmonella* spp isolated from foods sold by food handlers.

OTHER ACTIVITIES OUTSIDE CURRENT EMPLOYMENT

TAUGHT COURSES

2014-2015

MIC 401: Microbial Genetics: Elements of genetic engineering

MIC 407: Campylobacters, Helicobacters and Arcobacters

MIC 810: Advanced Medical Bacteriology: Genetic aspects of virulence and pathogenicity islands of salmonellae.

MIC 814: Advanced Medical Microbiology: Mechanisms, by which microorganisms (bacteria) invade the host, express their genomes and interact with macromolecular pathways and induce disease.

MIC 809: Application of Research Methods in Microbiology

MIC 903: Plasmids

MIC 412: Advanced Immunology: Hybridoma Technology: uses of monoclonal antibodies in medicine.

MCB 201: Biochemical activities of microorganisms

2017

MCB 301: Bacterial Diversity

2017 - 2021

MCB 403: Microbial Genetics

2017 - date

XI. Major Conferences Attended with Papers Read (in the last five years- 2017 – 2022)

- 1) *Guest Speaker, ‘*Helicobacter pylori*’s diagnostic testing and sensitivity’. LASUTH medical doctors meeting. 12th April 2017.
- 2) *Smith et al. Analysis of *Helicobacter pylori* infections in Africa, bacterial virulence factors but low pathology. 7th DFG sponsored conference on Partners of German-African grant in Hamburg. 17th to 21st May 2017.
- 3) A. T. Seriki, **S. I. Smith**, A. I. Adeleye, M. A. Fowora, O. Lesi, C. Onyekwere, D. Ndububa, O. Adekanle, J. A. Otegbayo, A. Akere (2017). *Helicobacter pylori* cytotoxin-associated gene A protein among adult dyspeptic patients in South-western Nigeria. 30th International Workshop on European *Helicobacter* and Microbiota Study Group. Sept. 7 -9 Bordeaux, France. Poster
1. Presentation.
- 4) Idowu A. Akindele, Tolulope F Jolaiya, Pia Palamides, Anna M Clarke, Henry A Njom, **Stella I Smith**, Rainer Haas (2018). Analysis of *Helicobacter pylori* infections in Africa, bacterial virulence factors but low pathology. 8th DFG sponsored conference on Partners of German-African grant in Entebbe. 5th to 9th September 2018.
- 5) Chair of the Panel Session on ‘Women in Science: Career Perspectives for Junior Scientists’ at the 8th DFG sponsored conference on Partners of German-African grant in Entebbe, Uganda. 5th to 9th September 2018.

- 6) ***Smith SI**: Molecular Biology: An Indispensable tool in 21st Century Research. Key note address speaker at the Hands-on-Training in Molecular Biology held at FIIRO 17th September 2018

2018

- 7) One- day seminar organised by Lagos Humboldt Alumni Klub for PhD students and junior scientists in collaboration with AvH, Germany held at the University of Lagos, 29th September 2018.
- 8) 5th International Scientific Conference of the Nigerian Institute of Medical Research. 14th to 16th November 2018.

2019

- 9) Train-the-trainer workshop in grant writing and mentorship held from 26 – 28th January 2019, in Ikeja.
- 10) Facilitator and Workshop Coordinator ACENTDFB workshop in collaboration with ABU, Zaria with theme ‘Diagnosis of Trypanosomes by conventional PCR and qPCR’. 26th to 30th August 2019.
- 11) World Bank, Africa Centre of Excellence meeting that held in Dakar, Senegal from 22nd September to 28th September.
- 12) Attended the programme seminar Africa Platform of Ghent University Association as IFS Alumni. 12th November 2019, Eko Hotel and Suites, VI.
- 13) Attended Lagos Humboldt Alumni Klub (LHAK) seminars on the 30th September and 2nd October 2019 at Unilag.
- 14) Attended the Alexander von Humboldt@ 250: Celebrating the Life and Ideals of A quintessential Global Icon, 25th November 2019.
- 15) Convener, First Alexander von Humboldt Kolleg, NIMR. 15th – 19th October 2019.

2020 Physical/Virtual conference/meeting/courses

- 16)) Quarterly Meeting of the National AMR TWG 20th – 22nd January 2020, Ibadan, Nigeria.
- 17) AMR Threat During Covid-19 Response- Taking Action on AMR Stewardship. 17th June 2020.
- 18) Quarterly Meeting of the National AMR TWG 26th – 27th August
- 19) Biobanking and the Future of Precision Medicine, 1st September 2020
- 20) Genome Informatics : 20 years of Genome Informatics, 14th – 16th September 2020
- 21) Virtual Launch of the Africa Pathogen Genomic Initiative, 12th October 2020
- 22) National AMR TWG, Q4 human health activities review meeting, 29th October 2020
- 23) Session 31 - Manufacturers of COVID-19 Rapid Diagnostics Tests: LumiraDx SARS-CoV-2 Antigen Assay". October 30th 2020
- 24) Remote Seminar: SARS-CoV-2 Biosafety and Biosecurity in the Laboratory, 12th and 19th November 2020
- 25) Pathogen Asset Control System Meeting Presentation and Demo, 30th November 2020
- 26) Quarterly National Antimicrobial Resistance Technical Working Group (AMR-TWG) Meeting. 30th November – 1st December 2020.
- 27) The Human Microbiome, organized by EIT Food from Italy a 3- week course from 30 November to 24 December 2020.

2021 Meetings/Conference

- 28) 2021 Q1 NAMR-TWG Meeting/Launching of National One Health Antimicrobial Resistance/Antimicrobial Usage Community of Practice (CoP). 24th February 2021, Abuja.
- 29) Mentor to Dr. Uche Igbasi, under the Fogarty EN-RTP Mentoring Term Training programme and NIH funding January 2021

- 30) *Plenary Speaker V: Medical and Biopharmaceutical Biotechnology: Leading the Way in Man and Animal Wellness. 33rd Annual International Conference of Biotechnology Society of Nigeria (Virtual).
- 31) First annual hands-on-training workshop on PCR for 400L Biochemistry, Biotechnology and Microbiology students, MTU, 23rd – 24th March.
- 32) Healthcare Technologies for Low and Middle Income Countries: 2021; 14th May 2021 (Virtual)
- 33) London Calling 2021: Oxford Nanopore Technology, 19th – 21st May 2021 (Virtual)
- 34) 2021 Q2 National Antimicrobial Resistance Technical Working Group (NAMR-TWG) 15th June 2021 (Virtual).
- 35) *Oral presentation on Microbiological Tools in Biotechnology during the training workshop on Material Development from African Plants Using Biotechnological Approaches, 7th to 9th July 2021. Venue: UI Centre for Sustainable Development 20 Awolowo Avenue, Bodija, Ibadan, Nigeria.
- 36) *Prof. SI Smith oral presentation: *Helicobacter pylori* in Africa: current situation and challenges. 5th Annual Conference of Al-Azhar Hepatogastroenterology Club, Cairo, Egypt. 27th August 2021 (Virtual).
- 37) * Fondazione Internazionale Menarini Sponsored, *Helicobacter pylori* Consensus Report Maastricht VI-Florence, Italy. 27th – 28th September 2021
- 38) 6V. BSL-2 Enhanced Work Practices: How to Develop a Training Program that Works for Your Institution. Thursday, October 7, 2021 (Virtual).
- 39) American Biosafety Association (ABSA)'s 2021: 64th Annual Biosafety and Biosecurity Virtual Conference from Oct 25 – 27, 2021.
- 40) CHAIR Conference. Covid-19 Pandemic: Consolidating the Gains and Addressing the Shortfalls. 8th – 11th November 2021, Main Auditorium NIMR, Yaba, Lagos, Nigeria.
- 41) Humboldt Kolleg Conference, with theme 'High Quality Publishing in the academic sphere: Perspectives in the Sciences, Humanities and Social Sciences. 21st – 24th November 2021. Hybrid Conference.
- 42) Stakeholders, Consultative Forum for a National Pathogen Control and Reporting System. Hotel 2020, Abuja 13 -1 4 December 2021.

2022 Conference/workshop/webinar

- 50) Sandia Laboratories, US sponsored Biological Risk Management Systems (BRMS) Implementation and Pathogen Control Workshop. Hotel 2020, Abuja 28 March – 1st April 2022.
- 51) Africa Centre for Neglected Diseases and Forensic Biotechnology (ACENTDFB) workshop on Bioinformatics. April 2022 – Facilitator and Convener
- 52) *Presentation of the African Helicobacter and Microbiota Study Group June 27th – 29th 2022. Sponsored by Richen Force Ltd, Hong Kong
- 53) **Helicobacter pylori*: Neglect in Africa and the Birth of AHMSG (African Helicobacter & Microbiota Study Group). Presented at the 36th EHMSG, Glasgow, UK. 10th September 2022
- 54) **Helicobacter pylori* is the major cause of gastritis. Presented at the Real World Gastritis Initiative (RE.GA.IN) Venice Italy. 8th – 12th November 2022.
- 55) *Antimicrobial Resistance, Biosecurity, Biotechnology and One-health. Presented at the 12th Faculty of Science International Conference (FOSIC) 2022; Lagos State University, Ojo, 7th December 2022.
- 56) Removing the Barrier for *H. pylori* susceptibility testing in Africa. African *Helicobacter* and Microbiota Study Group Webinar. 15th December 2022.
- 57) **Helicobacter pylori*: The peptic ulcer bug, neglected but unrelenting. Presented at the HEWAN Annual Symposium, NECA House Ikeja 20th December 2022.

*Papers read

Travel Grants

1. EU sponsored, International Congress of Bacteriology and Applied Microbiology Division Prague, Czech. Republic. July 3 - 6, 1994.
2. French Government sponsored, 15th International Workshop on Gastrointestinal Pathology and Helicobacter, Athens, Greece. 11th – 14th September 2002.
3. French Government sponsored, 16th International Workshop on Gastrointestinal Pathology and *Helicobacter*, Stockholm, Sweden. 3rd – 6th September 2003.

4. French Government sponsored, 17th International Workshop on Gastrointestinal Pathology and *Helicobacter*, Vienna Austria. 21st to 23rd September 2004.
5. Microbicides conference, 23- 26 April, 2006, Cape Town, South Africa.
6. IFS sponsored, Food Microbiology Conference, Bologna, Italy. August 28th to 3rd September 2006.
7. HRE sponsored, Health Research Ethics workshop, Ethiopia. 23rd to 29th September 2007.
8. ICGEB sponsored collaboration between Molecular Biology and Biotechnology Division and Dr. M. Contreras, IVIC Venezuela. Sept. 2008.
9. ICGEB sponsored Gastro conference, London. November 2009.
10. DFG sponsored conference on Partners of German-African grant. June 20th – 22nd 2010.
11. DFG sponsored 23rd International Workshop on European *Helicobacter* study group 2010.
12. DFG sponsored conference on Partners of German-African grant Ghana. March 24th – 26th 2011.
13. DFG sponsored conference on Partners of German-African grant Bonn. June 26th – June 29th 2012.
14. DFG sponsored conference on Partners of German-African grant Dar Es Salaam. Jan 29th to February 2nd 2014.
15. DFG sponsored conference on Partners of German-African grant Wurzburg. June 9th to 14th 2015.
16. 4th African Centre of Excellence Project Workshop held in Cotonou, Republic of Benin, 16th to 19th November 2015.
17. DFG sponsored conference on Partners of German-African grant Cameroon. June 1st to 4th 2016
18. DFG sponsored conference on Partners of German-African grant Hamburg. May 17th – 21st 2017.
19. Part DFG and Prof. Megraud sponsored 30th International European *Helicobacter* and Microbiota Study Group, Bordeaux, France. 7th – 9th September 2017.
20. DFG sponsored conference on Partners of German-African grant Uganda. September 5th – 9th 2018.

21. NIMR sponsored collaborative research to Institut Pasteur, Dakar. 2nd to 4th December 2018.
22. bioMerieux sponsored trip to Lyon, France 8th – 12th July 2019
23. Flemming Fund sponsored '*Development of national AMR sub-TWG operational plans for 2020*', 20th to 23rd January, 2020, Ibadan, Nigeria.
24. API/ATB Interpretation Advanced Training Course, bioMerieux sponsored, NIMR, Lagos. March 23 2020.
25. Flemming Fund sponsored, National AMR TWG Quarterly Meeting Quarter One, 2021 Venue: Transcorp Hilton Hotel Date: 24th February 2021
26. Fondazione Internazionale Menarini Sponsored, *Helicobacter pylori* Consensus Report Maastricht VI-Florence, Italy. 27th – 28th September 2021.
27. Sandia Laboratories, US sponsored Stakeholders, Consultative Forum for a National Pathogen Control and Reporting System. Hotel 2020, Abuja 13 -1 4 December 2021.
28. Sandia Laboratories, US sponsored Biological Risk Management Systems (BRMS) Implementation and Pathogen Control Workshop. Hotel 2020, Abuja 28 March – 1st April 2022.
29. Richen Hong Kong Sponsored conferenced of the European Helicobacter and Microbiota Study Group (EHMSG) workshop held in Glasgow from 8th – 10th September 2022
30. Fondazione Internazionale Menarini Sponsored, Real World Gastritis Initiative (RE.GA.IN) workshop held in Venice Italy, from 8th – 12th November 2022