CURRICULUM VITAE
Babasola Oluseyi OLUGASA

I.	(a)	Name:	Babasola Oluseyi Olugasa
	(b)	Date of Birth**:**	25 January, 1972
	(c)	Department**:**	Veterinary Public Health and Preventive Medicine
	(d)	Faculty:	Veterinary Medicine,
	(e)	Institution	University of Ibadan, Ibadan, Nigeria
II.	(a)	First Academic Appointment:	Lecturer II - (23 March, 1999)
	(b)	Present Post:	Full Professor
	(c)	Date of Last Promotion:	01 October, 2018
	(d)	Community Service:	Chapel of the Resurrection, University of Ibadan Venerable Archdeacon, Church of Nigeria (Anglican)

III. University Education (with dates)

University of Ibadan (D.V.M)	1988 –1995
University of Ibadan (M.Sc.)	1998 –1999
University of Ibadan (Ph.D.)	2001 –2006

IV. Academic Qualifications (with date and granting bodies)

Doctor of Veterinary Medicine (D.V.M), University of Ibadan	1995
Master of Science (M.Sc. *Epizootiology*), University of Ibadan	1999
Doctor of Philosophy (Ph.D.), University of Ibadan	2006

V. Professional Qualifications and Diplomas (with date)

(a) Registered Veterinarian, Veterinary Council of Nigeria (VCN)
VCN Registration Number 002715 — 1995

(b) Honorary Diploma, American Veterinary Epidemiology Society (DAVES), Chicago, Illinois, United States of America — 2013
(Now called American Veterinary One Health Society, from July 2023)

VI. Scholarships, Fellowships, Prizes and Grants (with date)

(a) Centre for Epidemiology and Animal Health (CEAH)/United Nations Food and Agriculture Organization, FAO-USDA/CEAH Fellowship-2002 Short-term training on emerging animal health issues: identification and analysis. US Department of Agriculture, Fort Collins, Colorado, USA. — 2002

(b) MASHAV Training Centre/The State of Israel's Ministry of Foreign Affairs MASHAV Scholarship - 2003 Short-term training on veterinary public health activities, beyond treating animal diseases: animal vaccines, meat and milk quality control on the farm and assurance in the community for human well-being. MASHAV Training Centre, Kibbutz Shefayim, Israel. — 2003

(c) World Organization for Animal Health (OIE) Institute for International Cooperation in Animal Biologics /US Department of Agriculture Cochran Fellowship - Foreign Agricultural Services Training Grant - 2003 Short-

term training on veterinary biologics, principles of veterinary vaccines and vaccination, assessing purity, safety, potency and efficacy of biological; Iowa State University, College of Veterinary Medicine, Ames, USA 2003

(d) John D. and Catherine T. MacArthur Foundation/University of Ibadan Foreign Training Grant - 2003 Long-term training in geographic data management and analytical planning for animal disease surveillance, Iowa State University, College of Veterinary Medicine, Centre for Food Security and Public Health, Ames, USA (Dr. James A. Roth's Centre) 2003

(e) John D. and Catherine T. MacArthur Foundation/University of Ibadan Re-Entry Grant - 2006 to conduct research and design extension methods at the University of Ibadan, Nigeria, for control and prevention of African swine fever in south-west Nigeria. (Grant 800/406/54/2006/REG/1) 2006

(f) John D. and Catherine T. MacArthur Foundation/University of Ibadan Multidisciplinary Research Grant - 2006. Virology, immunology, genomics and epizootiology to discover a more effective method for African swine fever control in south-western Nigeria. (Ref: 800/406/54/2006 /MRG/3) 2006

(g) Best PhD Thesis in the Faculty of Veterinary Medicine, University of Ibadan, Ibadan, Nigeria in the 2005/2006 academic session (June, 2006) 2006

(h) Postgraduate School Award for two articles from PhD thesis published in international peer-reviewed Journals (awarded in June, 2007) 2007

(i) John D. and Catherine T. MacArthur Foundation, Chicago, USA; Higher Education Initiative in Africa Grant (UD$890,000 - #9794400) to improve graduate programs for human-animal disease surveillance in West Africa 2011

VII. Honours, Distinctions and Membership of Learned Societies

(a) *Professor Tielen Foundation* (PTF) Award/Young Scientists Overseas Travel Support - 1999 to be inducted into the International Society for Animal Hygiene and present oral scientific paper at the 10th International Congress on Animal Hygiene, Maastricht, The Netherlands. 1999

(b) *Professor Tielen Foundation* (PTF) Award/Young Scientists Overseas Travel Support - 2002 to present scientific paper at the 11th International Congress on Animal Hygiene, Mexico City, Mexico. 2002

(c) Cochran Fellowship of the U.S. Department of Agriculture (USDA), Foreign Agricultural Services, Washington DC, May 2003 2003

(d) United Nations Food and Agriculture Organization (FAO/TCP/LIR/3202) Veterinary Epidemiology Consultant towards the control of transboundary animal diseases, especially Highly Pathogenic Avian Influenza in Liberia 2010

(e) African Union, Intra-African Bureau of Animal Resources/Vaccines Against Neglected Animal Diseases (VACNADA)-Liberia Veterinary Epidemiology Consultant towards the Control of *Peste des Petit Ruminants* in Liberia. 2011

(f) John D. and Catherine T. MacArthur Foundation Higher Education Initiative in Africa: Principal Investigator, Centre for Control and Prevention of Zoonoses (CCPZ) in Improving Postgraduate Programmes for Human-Animal Disease Surveillance in West Africa 2011

(g) Ministerial Advisory Panel for Rabies Control in Nigeria, 2013-2015. Federal Ministry of Health, Abuja, Nigeria 2013

(h) Chairman, Board of Trustees, the Society for Epizootiology in West Africa (SEWA), the Economic Community of West African States. 2015

(i) General Secretary, Steering Committee, Society for Rabies in West Africa (RIWA), the Economic Community of West African States. 2016

(j) External Examiner, Department of Veterinary Public Health and Preventive Medicine, Ahmadu Bello University, Zaria, Kaduna State, Nigeria 2017

(k) Co-Principal Investigator, Rabies Epidemiological Surveillance Study in a South Western State of Nigeria. Sanofi Pasteur Sponsored RAB48 project, Centre for Control and Prevention of Zoonoses, University of Ibadan, Nigeria for Vaccine Epidemiology Unit, Sanofi Pasteur, Lyon, France. 2018

(l) Chairman, Board of Trustees, the Pan-Africa Association of Veterinary Laboratory Diagnosticians (PAAVLD). 2020

(m) Member, Nigerian Veterinary Medical Association (NVMA) 1995

(n) Member International Society for Animal Hygiene (ISAH) 2000

(o) Member, Society for Rabies in West Africa (SRIWA) 2012

(p) Member, American Veterinary Epidemiology Society (AVES) 2013

(q) Member, Society for Epizootiology in West Africa (SEWA) 2015

(r) Member, Association for Veterinary Informatics (AVI) 2022

(s) Member, European Union funded URBANE: One Health approaches to support agroecological transformation of peri-urban farming 2022

(t) Member of Senate, University of Ibadan, Ibadan, Nigeria 2006-2011, 2023-date

VIII. <u>Details of Teaching and Work Experiences</u>

(a) Teaching Appointments Held (with dates)

(i) Lecturer Grade II (University of Ibadan) 1999 – 2002
(ii) Lecturer Grade I (University of Ibadan) 2002 – 2008
(iii) Senior Lecturer (University of Ibadan) 2008 - 2015
(iv) Associate Professor (Cuttington University, Liberia) 2011 – 2012

(v)	Associate Lecturer, Disaster Risk Management, Geography Department	2012 till date
(vi)	Associate Lecturer, (Graduate Seminar and Grant Writing Skills) Plant Breeding Programme, Pan African University (PAU)	2014 till date
(vii)	Associate Lecturer, Vaccine Production and Quality Control Programme, Pan African University, Life and Earth Sciences Institute (PAULESI)	2017 till date
(viii)	Senior Lecturer, Public Health (Babcock University, Nigeria)	2019 - 2020
(ix)	Visiting Associate Professor, Public Health (Babcock University)	2020 - 2022
(x)	Reader/Associate Professor (University of Ibadan)	2015 - 2018
(xi)	Full Professor (University of Ibadan, Ibadan, Nigeria)	2018 till date

I have co-taught at various times and Universities the listed Veterinary and Public Health courses:

(b) Course Taught

Undergraduate 1999 till date

S.No.	Courses Title	Course Code	Unit
1	Veterinary Biostatistics	VPH 411	2
2	Field Practice (Epidemiology and Public Health) III	VPH 422	6
3	Food (Meat and Milk) Hygiene	VPH 513	2
4	Zoonoses and Environmental Health	VPH 525	2
5	Public Health and Preventive Medicine Clinics I	VPH 531	3
6	Public Health and Preventive Medicine Clinics II	VPH 632	6
7	Research Project	VPH 633	6
8	Animal Genetics and Breeding	AGR 301	3
9	Research Methodology in Public Health	PHSC 316	3
10	Senior Project and Presentation	AGR 409	3

Postgraduate 2006 till date

S.No	Courses Title	Course Code	Unit
1	Principles of Epidemiology, Disease Control and Surveillance	PDPH 711	2
2	Advanced Epizootiology	VPH 711	3
3	Control of Major and Emerging Zoonoses	VPH 713	2
4	Veterinary Biometrics	VPH 717	3
5	Veterinary Environmental Health	VPH 722	2
6	Laboratory Diagnostic Methods	VPH 727	2
7	Seminar Presentation	VPH 730	2
8	Research Project (M.Sc./MVPH/MPVM/MPH)	VPH 731	6
9	Disease Surveillance and Emergency Preparedness (Disaster Risk Management for Social Sciences)	DRM 715	2
10	Graduate Seminar and Grant Writing Skills	PPB 720	2
11	Laboratory Quality and Animal Management	PVP 704	2
12	Vaccine Registration	PVP 712	3
13	Epidemiology, Communicable Disease Surveillance and Public Health Legislation	PHFC 813	3
14	Epidemiology of Communicable Diseases	EPDM 871	3
15	Epidemiology of Non-Communicable Diseases	EPDM 873	3
16	National Health Information Systems and Vital Statistics	EPDM 877	3
17	Advanced Epidemiology, Disease Control and	PHFC 913	3

	Surveillance		
18	Geographic Techniques for Health and Environmental Sampling and Analysis	PHEH 917	3

Projects Supervised

(i) Undergraduate Projects Supervised — I have Supervised 75

(ii) Postgraduate Projects Supervised — I have Supervised 60

Completed: B.Sc. 12; DVM 63; PGD 1; M.Sc. 36; MPH 12; M.Phil. 2; PhD 9
On-going: PhD 2

(c) Administrative Experience and Service to the University Community

I have had the privilege of serving University communities at various levels since 1999 as:

i) Departmental Representative on Faculty Field Trip	2000-2002
ii) Member, Departmental Web-metrics Committee	2003-2005
iii) Member of Senate, University of Ibadan, Nigeria (Congregational Representative)	2006-2011
iv) Departmental Postgraduate Coordinator	2007-2008
v) Member of Committee, Internationalization Strategic Planning, University of Ibadan, 2010-2015	2007-2009
vi) Member, Central Multidisciplinary Research Laboratory Committee, (The Bioscience Users), University of Ibadan	2010-2012
vii) Assisting Priest, Epiphany Chapel, Cuttington University, Liberia	2011-2012
viii) Pioneer Principal Investigator and Founding Director, Centre for Control and Prevention of Zoonoses (CCPZ), University of Ibadan	2012 - 2019
ix) Chairman/Co-Chair, Scientific Committee, International Conference on Rabies in West Africa (RIWA), Ibadan (Nigeria 2012), Accra (Ghana 2016), Bamako (Mali 2018), and Abuja (Nigeria 2019), respectively	2012 till date
x) Faculty of Veterinary Medicine Representative on Senate Curriculum Committee	2014-2016
xi) Chairman, Scientific Committee, Gabriel Oluwole Esuruoso Annual Memorial Lecture and Book Exhibition	2014 till date
xii) Co-Principal Investigator, Rabies Epidemiological Surveillance Study of Ogun State, Southwest Nigeria	2018 till date
xiii) Scientific Editor, Pan African Medical Journal - One Health (PAMJ-OH)	2019 till date
xiv) Managing Editor, Journal of Public and Allied Health Sciences (JOPAHS)	2021 till date

(d) Clinical Service Experience

i) Veterinary Officer, National Youth Service Corps, Eruwa, Oyo State, Nigeria	1995-1996
ii) Veterinary Projects Planning Officer, VetAcademic Resource Foundation, Ibadan	1996-1997
iii) Veterinary Clinician, Airport Residential Area Veterinary Clinic, Accra, Ghana	1997-1998
iv) Registrar, Veterinary Teaching Hospital (VTH), University of Ibadan	1999-2013
v) Consultant, Veterinary Teaching Hospital (VTH) University of Ibadan	2013 till date

IX. Research

(a) Completed

1. Studies on work system design, privatization of veterinary services and actualization of "One-Health" collaboration in West Africa

2. Epizootiology of priority trans-boundary animal diseases, especially viruses of high economic importance in West Africa (including African swine fever, Foot-and-Mouth Disease and *Peste des Petits Ruminants*)

3. Epizootiology of priority zoonotic diseases of viral aetiology in West Africa (including Highly Pathogenic Avian Influenza H5N1, human and swine influenza H3N2, and Rabies

4. Development of geo-spatial information infrastructure and data profile of Lassa fever in Liberia: a nowcasting and forecasting model for West Africa

(b) In Progress

1. URBANE: One Health approaches to support agroecological transformation of peri-urban farming in south-western Nigeria

   This project was started in June 2022 to explore the links between farming practices (crop and animal production) and health as it applies One Health approaches, including agroecology, novel diagnostics, probiotics and information technology to resolve intensification of peri-urban agriculture and the health of animals, humans and the ecosystem as a whole. URBANE supports a logical framework that aims to achieve more effective agroecology and better health of humans, animals and the ecosystem in general by promoting improvements in their physical and psycho-emotional states. Use of the URBANE novel tools, including SWINOSTICS portable diagnostics device for African swine fever, Avian influenza, Foot-and-Mouth Disease and Newcastle Disease, and the engagement of local knowledge is used as drivers to support decision making and achieve a high impact. URBANE is designed to build on local knowledge, supported by new technologies and best practices applied in European regions where agroecology is already applied in intensified, market-oriented production fields. The URBANE DSS will be delivered in two versions: a) for farmers in the form of a friendly application and b) for authorities providing information on the potential dangers and the environmental, animal and crop yield impact of the application of agroecological farming practices. The project will be completed in 2026.

2. Research and education in spatio-temporal mapping of Lassa fever spread and control at the human-animal-environment interface in West Africa

   This project was started in October 2020 as a major attempt at sustaining education, science and service on Lassa fever among farming communities in

West Africa in Nigeria and selected West African countries. The project is now 60% completed and is due for completion in October 2024. Viral Haemorrhagic Fevers, including Ebola virus disease have led to epidemic of international concern in West Africa in the past one decade. Lassa fever has received increased attention of the Nigeria Center for Disease Control, yet it is far from being effectively controlled. Epidemiological efforts in all the countries affected are still needed. This study deploys sero-surveillance in south-western Nigeria, since there is need to actively sustain surveillance at strategic locations across the sub-region. Geographic maps and time-series analysis of risk factors of Lassa fever are being compiled and evaluated in this study at the human-animal-environment interface. To date, 2 postgraduate students (1 PhD, 1 Master of Philosophy) have benefited from the project. I offer community health extension services on Lassa fever risk and control through the Centre for Control and Prevention of Zoonoses (CCPZ), University of Ibadan.

3. Research and education in the spatio-temporal mapping of Pandemic Influenza-A virus spread and control at the human-animal interface in West Africa

This project is a major attempt at sustaining research activities in the occurrence, distribution, control and prevention of Pandemic Influenza-A virus (PIAV) in Ghana, Liberia, Nigeria and Sierra Leone. The studies entail isolation and molecular characterization of Influenza-A viruses and their phylogenetic analysis in comparison to influenza strains accessioned in the NCBI GenBank. The project aims to achieve One Health audit, spatial mapping and time-series model of PIAV at the human-animal-environment interfaces in West Africa. Two postgraduate students (1 PhD, 1 Masters) have benefitted from this project. From the on-going studies, some eight (8) influenza-A viruses have been isolated, with their nucleotide and protein sequences accessioned in NCBI GenBank. The GenBank accession numbers are: (i) KX429673; (ii) KX429674, (iii) KX429675; (iv) KX429676; (v) KX429677; (vi) KX429678; (vii) KX429679; and (viii) KX429680. I have provided leadership to promote community health education in West Africa, providing extension information on influenza occurrence, spatial distribution pattern, with forecasts and control in selected communities at risk in Ghana, Liberia, Nigeria and Sierra Leone.

(c) Project, Dissertation and Thesis

Olugasa, B. O. Determination of the health status and problems of a small flock of West African Dwarf Goats in a backyard environment in Ibadan, Nigeria. D.V.M. Project, 1995. University of Ibadan, Ibadan, Nigeria. 102 pp.

Olugasa, B. O. Evaluation of the health status and problems of resident White Fulani cattle herds in Eruwa town and environs, Oyo State, Nigeria. M.Sc. Epizootiology Project, 1999. University of Ibadan, Ibadan, Nigeria. 88 pp.

Olugasa, B. O. Epizootiology of African swine fever outbreaks in South-Western Nigeria, 1997-2005. Ph.D. Thesis, 2006. University of Ibadan, Ibadan, Nigeria. 204 pp.

X. Publications

(a) Books already published

1. Esuruoso, G. O., Ijagbone, I. F. and **Olugasa, B. O**. (2005). *Introductory Epizootiology*, 2nd Edition. Published by VetAcademic Resource Publishers and Consultants, Ibadan, Nigeria. Printed by GLJ Press, Ibadan. 322 pp. ISBN 978-075-395-8. (Nigeria)

2. Adeyemi, I. G., Alonge, D. O., Agbede, S. A., Ogundipe, G. A. T., Ishola, O. O., Babalobi, O. O., Ijagbone, I. F., Cadmus, S. I. B., **Adedeji**, O. B., Adeyemo, O. K., **Olugasa, B. O.,** Adetunji, V. O., Olatoye, I. O., Awosanya, A. E. J., Ojomo, B. and Agboola, B. B. (2008). *Clinical and Laboratory Manual: Veterinary Public Health-Preventive Medicine Wildlife and Fish Diseases*. Produced by the Department of Veterinary Public Health and Preventive Medicine, University of Ibadan. Kehny Prints, Ibadan. 94 pp. ISBN 978-978-085-839-1.

3. **Olugasa, B. O.** (2014). *Opportunities for Field Research and Short Course in Human-Animal Disease Surveillance in West Africa*. Produced by Centre for Control and Prevention of Zoonoses, University of Ibadan. Printed by Ibadan Diocesan Press, Ibadan 90 pages. ISBN 978-978-52971-3-3. Copyright LW3698, Nigerian Copyright Commission. (Nigeria)

4. **Olugasa, B. O.** and Fasunla, A. J. (2017). *Getting to Know Human-Animal Disease Surveillance in West Africa: A Manual of Spatial and Spatio-Temporal Epizootiology* (Revised Edition). Published by Centre for Control and Prevention of Zoonoses, University of Ibadan. Ibadan 202 pages. ISBN 978-978-957-961-7. Copyright LW2104, Nigerian Copyright Commission. (Nigeria)

(b) Chapters in books already published:

5. Emikpe B. O., **Olugasa, B. O.** (2016). Zoonoses and the health of the zoo workers. Chapter 6 In: Morenikeji O. A. (Edited) *Wildlife and Zoo Management*. Ibadan University Press. ISBN 978-978-54045-9-3. Pp.93-106. (Nigeria)

(c) Articles that have already appeared in Refereed Conference Proceedings

6. Esuruoso, G. O. and **Olugasa, B. O.** (1997). Perspectives in social responsibilities of professionals in Nigeria. *VARF Quarterly Bulletin* Vol. 1, No. 1: 1-24. (Nigeria)

7. **Olugasa, B. O.** and Esuruoso, G. O. (1999). Exploring shared areas of work systems for veterinary officers and private practitioners in Nigeria: A recipe for success at all levels. In: *Proceedings of the 36th Annual Congress of the Nigerian Veterinary Medical Association (NVMA)*. Arewa House, Kaduna, Nigeria. Published by NVMA Kaduna, pages 71-75. (Nigeria)

8. Esuruoso, G. O. and **Olugasa, B. O.** (1999). Opportunities for mixed ruminant practice, production and related veterinary business packages. *In: Esuruoso, G. O. (Edited) Gateway to Effective Management of Modern Veterinary Services and Privatization of Veterinary Functions in Nigeria.* VetAcademic Resource Publishers and Consultants, Ibadan pp 32-44. ISBN 978-978-52971 (Nigeria)

9. **Olugasa, B. O.,** Cadmus, S. I. B. and Atsanda, N. N. (2000). Actualization of strategies for beef quality control in South-Western Nigeria. In: *Proceedings of the 10th International Congress on Animal Hygiene.* Tielen, M. J. M. (Edited). July 2nd - 6th. Maastricht, the Netherlands. Published by Animal Health Service in the Netherlands. Printed by ADDIX, Wijk bij Duusted. Vol. 1, pages 67-71. (The Netherlands)

10. Coker, A. O., **Olugasa, B. O.** and Adeyemi, A. O. (2001). Abattoir wastewater quality in south western Nigeria. In: *People and Systems for Water, Sanitation and Health. Scott R. (Edited). Proceedings of the 27th Conference of Water Engineering and Development. Held at Lusaka, Zambia, August 27 – September 1, 2001*. Published by Water Engineering and Development Centre (WEDC), Loughborough University, United Kingdom pages 329-331. (United Kingdom)

11. **Olugasa, B. O.**, Esuruoso, G. O. and Oghre-Ikanone, E. (2003). Teaching animal hygiene at the University of Ibadan, Ibadan, Nigeria. In: *Proceedings of the 11th International Congress on Animal Hygiene.* Saltijeral, J. (Edited). Published by Univasidad Autonoma Metropolitan, Mexico City, Mexico. 23-27 February, 2003 Vol. 1 pages 371-375. (Mexico)

12. **Olugasa, B. O.,** Oluwayelu, D. O., Adewale, G. A., Ayoade, G. O., Ijagbone, I. F., Babalobi, O. O. and Agbede, S. A. (2005). Confirmatory diagnosis of African swine fever in southern Nigeria by immunoblotting assay. In: *Animals and Environment. Proceedings of the 12th International Congress on Animal Hygiene*, Warsaw Poland. A. K. R. Wrzesien (Edited). Published by Warsaw Agricultural University, Poland, Vol. 1: 343-347. (Poland)

13. Ekong, P. S., **Olugasa, B. O.,** Oyetunde, I. L., Waziri, N. E. and Joanes, T. N. (2007). Spatial distribution of primary outbreaks of highly pathogenic avian influenza in Nigeria. In: *Animal Health, Animal Welfare and Biosecurity. Proceedings of the 13th International Congress on Animal Hygiene, Estonia*. Aland, A. (Edited). Published by Estonia University of Life Sciences, Vol. 1: 740-743. (Estonia)

14. Olatoye, O. I., **Olugasa, B. O.,** Omoloja, A. A. and Ojeyinka, O. T. (2009). Serological evidence of avian influenza viruses in pigs in South-Western Nigeria. In: *Proceedings of the 14th International Congress on Animal Hygiene*, 19-23 July, 2009. Briese, A., Claub, M., Hartung, J., and Springorum, A. (Edited). Held at the University of Vechta, Germany Published by Tribun EU, Brno, Czech Republic. Vol. 2: 721-726. (Germany)

15. Jagun, A. T., Ajayi, O. L. Ilugbo, M. O. and **Olugasa, B. O.** (2011). Isolation and prevalence of pathogenic Leptospira interrogans in slaughtered cattle in two abattoirs in South-western Nigeria. In: *Proceedings of the 15th International Congress on Animal Hygiene*, 3-7 July, 2011. Aland, A., Algers B., and Banhazi, T. (Edited). Held at the University of Veterinary Medicine, Vienna, Austria. Vol. 3: 235-237. (Austria)

16. Odigie, A. and **Olugasa, B**. Lassa fever risk perception and one health considerations associated with rodent control practices in a Nigerian University. In: Reyes L. A. (Edited) *Proceedings of the 18th International Congress on Animal Hygiene*, 19-23 March, 2017. Held at the Autonomous University of Sinaloa, Mazatlán, Sinaloa, Mexico. Vol. 3: 244-247. (Mexico)

(d) Patents and Copyrights

17. Esuruoso, G. O. and **Olugasa, B. O.** (2017). Epizootiology and Animal Health in West Africa: a sub-regional serial. *Nigerian Copyright Commission* **LW2084**. ISSN 2550-7990. (Nigeria)

(e) Articles that have already appeared in learned Journals

18. Esuruoso, G. O. and **Olugasa, B. O**. (1997). Actualization of strategies for privatized preventive veterinary services to nomadic herdsmen in southern Nigeria. *Epidemiologie et Sante Animal* Vol. 31. No 2: 22. 1-3. (France) Contribution - 50%

19. **Olugasa, B. O.** (2000). Relevance of value and integrity to the ideals of VARF organization and in relation to the mandate of the Veterinary Council of Nigeria. *VARF Quarterly Bulletin* Vol. 4: 42-45. (Nigeria)

20. Babalobi, O. O., Ayoade, G. O., **Olugasa, B. O.,** Oluwayelu, D. O. and Oyedele, O. (2003). Differential diagnosis of a swine epizootic of unknown aetiology in Ibadan, Oyo state, Nigeria. *Israel Journal of Veterinary Medicine* Vol. 58, No. 2/3:86 – 89. (Israel)

21. Ijagbone, I. F., Esuruoso, G. O., Adeyemi, I. G., **Olugasa, B. O**. and Agbede, S. A. (2005). An outbreak of animal trypanosomosis in a Fulani herd at Idofian in Kwara State, Nigeria. *Vom Journal of Veterinary Science* Vol. 1, No. 2: 76 – 79. (Nigeria)

22. **Olugasa, B. O.** and Ijagbone, I. F. (2007). Pattern of spread of African swine fever in South-Western Nigeria, 1997-2005. *Veterinaria Italiana,* Vol. 43, No.3: 621-628. (Italy)

23. Babalobi, O. O., **Olugasa, B. O.,** Oluwayelu, D. O., Ijagbone, I. F., Ayoade, G. O. and Agbede, S. A. (2007). Analysis and evaluation of mortality losses of the 2001 African swine fever outbreak, Ibadan, Nigeria. *Tropical Animal Health and Production Vol.* 39, No. 7: 533-542. (United Kingdom)

24. **Olugasa, B. O.** (2007). Serological evidence of African swine fever virus infection in commercial pig herds in southwest Nigeria. *African Journal of Livestock Extension* Vol. 5: 61-66. (Nigeria)

25. **Olugasa, B. O.** (2008). African swine fever control in Ibadan, Nigeria: Problems, needs and veterinary extension opportunities. *African Journal of Livestock Extension* Vol. 6:29-35. (Nigeria)

26. Adeola, O. A., Adeniji, J. A. and **Olugasa, B. O**. (2009). Isolation of influenza A viruses from pigs in Ibadan, Nigeria. *Veterinaria Italiana* Vol. 45, No. 3: 383-390. (Italy)

27. **Olugasa BO**, Aiyedun JO, Akingbogun AA (2009). Identification of geographic risk factors associated with clinical human rabies in a transit city of Nigeria. *Epizootiology and Animal Health in West Africa, 5:43–52.*

28. **Olugasa, B. O.**, Odeniyi, A. O., Adeogun, A. O. and Adeola, O. A. (2010). Antibody levels against rabies among occupationally exposed individuals in a Nigerian University. *Veterinaria Italiana* Vol. 46, No. 1:21-28. (Italy)

29. Adeola, O. A., Adeniji, J. A. and **Olugasa, B. O**. (2010). Detection of haemagglutination-inhibiting antibodies against human H1 and H3 strains of influenza A viruses in pigs in Ibadan, Nigeria. *Zoonoses and Public Health* Vol. 57, No. 7-8:e89-94. (United States of America)

30. Ishola, O. O., Wungak, Y. S., **Olugasa, B. O.**, Davis, L. D. and Ekong, P. (2011). Serological survey of Foot and Mouth Disease in cattle in Jos South Local Government Area of Plateau State. *Vom Journal of Veterinary Sciences* Vol. 8 No. 1: 16-21. (Nigeria)

31. Adeyemo, O. K., Ganiyu, O. I. and **Olugasa, B. O**. (2011). Comparative evaluation of productivity and cost effectiveness of catfish fingerling production in earthen pond and recirculation system in Ibadan, Nigeria. *Nigerian Veterinary Journal.* Vol. *32, No. 1: 5-8. (Nigeria)*

32. **Olugasa, B. O.,** Oluwayelu, D. O., Ayinmode, A. B., Emikpe, B. O., Ijagbone, I. F. and Cadmus, S. I. B. (2011). Epizootiology in contemporary global health: making a difference in the health of people in West Africa. *Nigerian Journal of Epidemiology Vol.* 1, No.1: 35-42. (Nigeria)

33. **Olugasa, B. O.,** Aiyedun, J. O. and Emikpe, B. O. (2011). Prevalence of antibody against rabies among confined, free roaming and stray dogs in a transit city of Nigeria. *Veterinaria Italiana* Vol. 47, No. 4: 453-460. (Italy)

34. **Olugasa, B. O.**, Ijagbone, I. F. and Esuruoso, G. O. (2012). It is over three decades of graduate education in Epizootiology at the University of Ibadan, Nigeria (1975-2011): is there a need to revise the curriculum? *PanAfrican Medical Journal* Vol. *12 No. 70: 1-8.* (Uganda)

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XII. Ten Publications that Best Represent the Totality of My Contributions to Scholarship

1. Esuruoso, G. O., Ijagbone, I. F. and **Olugasa, B. O.** (2005). Introductory Epizootiology, 2nd edition. Published by VetAcademic Resource Publishers and Consultants, Ibadan, Nigeria. Printed by GLJ Press, Ibadan. 322 pages. ISBN 978-075-395-8

2. **Olugasa, B. O.** and Ijagbone, I. F. (2007). Pattern of spread of African swine fever in South-Western Nigeria, 1997-2005. *Veterinaria Italiana Vol. 43, No. 3: 621-628.*

3. **Olugasa, B. O**., Odeniyi, A. O., Adeogun, A. O. and Adeola, O. A. (2010). Antibody levels against rabies among occupationally exposed individuals in a Nigerian University. *Veterinarian Italiana Vol. 46, No.1: 21 - 28.*

4. **Olugasa, B. O.,** Aiyedun, J. O. and Emikpe, B. O. (2011). Prevalence of antibody against rabies among confined, free roaming and stray dogs in a transit city of Nigeria. *Veterinaria Italiana Vol. 47, No. 4: 453-460*.

5. **Olugasa, B. O.**, Dogba, J. B., Nykoi, J. D., Ogunro, B. N., Odigie, E. A., Ojo, J. F., Taiwo, T., Kamara, A., Mulbah, C. K. and Fasunla, A. (2014). The rubber plantation environment and Lassa fever epidemics in Liberia, 2008-2012: A spatial regression. *Spatial and Spatio-temporal Epidemiology Vol.11:163-174.*

6. **Olugasa, B. O.** (2014). The geospatial information infrastructure at the Centre for Control and Prevention of Zoonoses, University of Ibadan, Nigeria: an emerging sustainable one-health pavilion. *African Journal of Medicine and Medical Sciences Vol. 43, Supplement No.1:65-78.*

7. **Olugasa, B. O.**, Odigie, E. A., Lawani, M. and Ojo, J. F. (2015). Development of a time-trend model for analyzing and predicting case pattern of Lassa fever epidemics in Liberia, 2013-2017. *Annals of African Medicine Vol. 14, No.2:89-96*.

8. **Olugasa, B. O.**, Oshinowo, O. Y., Odigie, E. A. (2015). Preventive and social cost implications of Ebola Virus Disease (EVD) outbreak on selected organizations in Lagos State, Nigeria. *Pan African Medical Journal Vol. 22, Supplement No.1: 20.*

9. Adeola, O. A., **Olugasa, B. O.**, Emikpe, B. O., Folitse, R. D. (2019). Syndromic survey and molecular analysis of influenza viruses at the human-swine interface in two West African cosmopolitan cities suggest the possibility of bidirectional interspecies transmission. Zoonoses and Public Health; Volume 66(2):232-247. doi: 10.1111/zph.12559. PMID: 30680936 (Germany)

10. Olarinmoye, A. O., Kamara V., Jomah, N. D., **Olugasa, B. O.**, Ishola, O. O., Kamara, A., Luka, P. D. (2019). Molecular detection of rabies virus strain with N-gene that clustered with China lineage 2 co-circulating with Africa lineages in Monrovia, Liberia: first reported case in Africa. *Epidemiology and Infection;* 147:e85. http://dx.doi.org/10.1017/S0950268818003333 . PMID: 30868993

XII. Research Focus

My research is focused on veterinary epidemiology and public health informatics. I am interested in bio-medical, spatio-temporal and socio-environmental drivers of animal and zoonotic diseases. This focus is aimed at achieving more effective surveillance of diseases at the human-animal-environment interface, using the tools and techniques of epidemiology. It could also enable early warning in the control of diseases using limited resources in Africa. My studies targeted detection of endemic, emerging and neglected human-animal diseases; mapping their spatial distribution pattern, establishing their prevalence, and computing their time-trend models to be used in forecasting and then planning a control framework.

I integrated geographic information systems (GIS) and global positioning systems (GPS) tools into clinical case review of specific pathogens, with laboratory data on exposures to achieve and deploy a robust toolkit for one health data audit of specific-illnesses. This was used to harness public health project planning approach to epidemiological survey methods. This, included use of ELISA technique, virus gene isolation, molecular characterization, and phylogenetic analysis. The study designs were targeted at informing tactical veterinary extension delivery for sustainable public health promotion in West Africa. I have studied place-based clinical (individual) and public health (population) outcomes of animal diseases, including African swine fever, Foot-and-Mouth Disease, *Pest des Petits Ruminants*; and zoonotic diseases, including Ebola virus disease, Human and Swine Influenza, Lassa fever, and Rabies. I have quantified their prevalence, identified the socio-environmental drivers, and public health impacts. These provided information that linked animal and human health to their environment, in a way that could assist policy makers to set public health goals at city/town and district, levels.

These efforts yielded network of improved human-animal disease surveillance programme in West Africa, a co-reviewed postgraduate curriculum in epizootiology at the University of Ibadan that deployed GIS-GPS tools to convert clinical data from animal hospital, human hospital and diagnostic laboratories to map points, included data from field investigations and care-seeking preferences of victims. The concept won a major grant from the John D. and Catherine T. MacArthur Foundation Higher Education Initiative in Africa to establish the Centre for Control and Prevention of Zoonoses (CCPZ) at the Faculty of Veterinary Medicine, University of Ibadan, Nigeria. The emergence of CCPZ has intensified my use of One-Health data audit to model the spatio-temporal patterns and estimate annual human deaths from rabies, Lassa fever and influenza in selected cities of Liberia, Ghana and Nigeria. I provided epidemiological lead that isolated emerging influenza-A and rabies viruses with their nucleotide's sequences accessioned in GenBank. The maps developed on these outbreaks were used for public health practice and to fill critical gaps in literature due to under-reporting of cases of these major neglected diseases. A Society for Epizootiology in West Africa and a Society for Rabies in West Africa (RIWA) were incorporated as One Health fora dedicated to Stepwise Actions toward Rabies Elimination in the sub-region.

Thus, my contributions towards One Health knowledge and public health practice have been modest; fostering data audit, early detection of disease exposures, identifying their drivers, showing their pattern of spread, and predicting the outcome scenarios with logical framework. The One Health models are adabtable to other locations in West Africa and are useful for identifying potential sites of epidemics before a pathogen causes havoc. I delivered early warning about African swine fever, Swine influenza and Lassa fever epidemics. I facilitated public health actions for mitigating outbreaks in selected localities.