

CURRICULUM VITAE

- I.** (a) **Name:** Taye Jemilat Lasisi
- (b) **Department:** Physiology
- (c) **Faculty:** Basic Medical Sciences
- (d) **Joint Appointment:** Oral Pathology, Dentistry
- II.** (a) **First Academic Appointment (with date):** Lecturer 1 (04 May, 2012)
- (b) **Present Post (with date):** Senior Lecturer (01 October, 2015)
- (c) **Date of Last Promotion:** 01 October, 2015
- (d) **Date Last Considered for Promotion:** Not Applicable
- III. University Education (with dates):**
- 1) University of Ibadan, Ibadan, Nigeria 1995 - 2003
 - 2) University of Ibadan, Ibadan, Nigeria 2005 - 2007
 - 3) University of Ibadan, Ibadan, Nigeria 2012 - 2018
- IV. Academic Qualifications (with dates and granting bodies):**
- 1) Bachelor of Dental Surgery (BDS), University of Ibadan, February 2003
 - 2) Master of Science (MSc) in Physiology, University of Ibadan, April 2007
 - 3) Doctor of Philosophy (PhD) in Physiology, University of Ibadan, September 2018
- V. Professional Qualifications and Diplomas (with dates):**
- 1) Fellow, National Postgraduate Medical College of Nigeria (FMCDS), Oral Pathology, Faculty of Dental Surgery, November 2011.
 - 2) Fellow, West African College of Surgeons (FWACS), Oral Pathology, Faculty of Dental Surgery, April 2012.

VI. Scholarships, Fellowships and Prizes (with dates):

1. Year 2013 University of Ibadan Travel Support to attend the 37th Congress of the International Union of Physiological Sciences (IUPS), Birmingham, U.K.
2. Year 2014 MEPIN Mentored Research Award by the Medical Education Partnership Initiative in Nigeria (MEPIN) project funded by Fogarty International Center, the Office of AIDS Research, and the National Human Genome Research Institute of Health, the Health Resources and Services Administration (HRSA) and the Office of the U.S. Global AIDS Coordinator under Award Number R24TW008878 to support a study titled: “Oral and salivary changes in patients with chronic kidney disease”.
3. Best Early Career Physiologist Presenter at the International Union of Physiological Sciences (IUPS) Regional Workshop/34th Scientific Conference of the Physiological Society of Nigeria, Lagos, October 2014.
4. Year 2015 Thomas Bassir Biomedical Foundation Seed Grant Program Award to support a study titled: “Role of salivary cytokines and antimicrobial proteins in pregnancy induced oral changes”.
5. Year 2016 Best outstanding iResearch abstract submitted to the College of Medicine University of Ibadan, Nigeria.
6. Year 2017 Tertiary Education Trust Fund (TETFUND) Grant Award for a research project titled: “Oral cavity changes and salivary antimicrobial proteins in patients with malaria”.
7. Year 2017 University of Ibadan Travel Support to attend the 2nd Congress of the International Association of Oral Pathology/Medicine (IAOP) Africa Region Congress, Accra, Ghana.

8. Gordon Research Conferences Travel Support to attend Year 2019 Gordon Research Conference on Salivary Glands and Exocrine Biology in Galveston, Texas, USA.

VII. Honours, Distinctions and Membership of Learned Societies:

1. Member, Nigerian Medical Association, 2003 to date.
2. Member, Nigerian Dental Association, 2003 to date.
3. Member, Physiological Society of Nigeria, 2007 to date.
4. Member, Nigerian Association of Oral and Maxillofacial Pathology, 2008 to date.
5. Member, African Association of Physiological Sciences, 2012 to date.
6. Member, Medical and Dental Consultants Association of Nigeria, 2013 to date.
7. Member, The Physiological Society (UK), 2013 to date.

VIII. Details of Teaching / Work Experience:

1. **Registrar and Senior Registrar** in Oral Pathology, University College Hospital, Ibadan: Teaching and tutorials which involved demonstration of clinical signs, symptoms, histopathology and pathophysiology of various oral diseases to clinical students; dental students (1st, 2nd and 3rd year clinical), medical students (1st year clinical) and junior resident doctors in the Oral Diagnosis clinic and Oral Pathology laboratory, April 2006 to March 2012. Formal lectures in Oral Diagnosis, Oral Pathology and Oral Medicine to Dental Surgeon Assistants under training, April 2006 to March 2012.
2. **Lecturer** in Physiology, University of Ibadan, Ibadan: Teaching in form of formal lectures, tutorials, practical sessions and conducting examinations for medical students (1st and 2nd year preclinical), dental students (1st and 2nd year preclinical), physiology students (PIO 202, PIO 205, PIO 206, PIO 207, PIO 309, PIO 310, PIO 314, PIO 402,

PIO 404, PIO 405 and PIO 406), nursing students (PIO 205, PIO 206, PIO 207), physiotherapy students (PIO 205, PIO 206, PIO 207), pharmacy students (PIO 205, PIO 206, PIO 207), human nutrition students (PIO 205, PIO 206, PIO 207), and medical laboratory science students (PIO 205, PIO 206, PIO 207), May 2012 to date.

3. **Postgraduate Lecturer, supervisor and Examiner:** Postgraduate lectures in the update courses in basic medical sciences and examination in physiology for the Primary examination of the West African College of Surgeons to dentists, August 2012 to date.

Supervision of postgraduate students' projects in Physiology and Oral Pathology/Oral Medicine.

4. **Joint Appointment as a Lecturer** in Oral Pathology, University of Ibadan, Ibadan: Formal lectures, tutorials, conduction of examinations and seminars in Oral Pathology for dental students (1st, 2nd and 3rd year clinical), medical students (1st year clinical) and resident doctors (registrars and senior registrars), September 2013 to date.

5. **Project supervision** in Physiology, University of Ibadan, Ibadan: I have supervised 35 B.Sc. projects of final year students in Physiology, April 2014 to January 2022.

6. **Reviewer of Journal articles:** I have served and still serving as regular reviewer for peer reviewed journals including the Nigerian Journal of Physiological Science,

African Journal of Medicine and Medical Sciences, Annals of Ibadan Postgraduate Medicine, Archives of Oral Biology and Saudi Dental Journal.

7. Assistant Coordinator for MBBS/BDS program, Department of Physiology, University of Ibadan, 2012 to 2015.

8. Coordinator for MBBS/BDS program, Department of Physiology, University of Ibadan, 2015 to date.
9. Member, Finance Committee, Department of Physiology, University of Ibadan, 2016 to date.
10. Member, Research Committee, Faculty of Dental Surgery, University of Ibadan, 2018 to date.
11. Chairperson, Faculty of Dentistry committee on 2019 University of Ibadan Research and Development Fair (UIRESDEV).
12. Member, Committee on Compendium of UI Women Achievers, University of Ibadan, 2018 to 2019.
13. Member, University of Ibadan Research and Development Fair (UIRESDEV), 2018 to 2019.
14. Chairperson, Exercise laboratory committee, Department of Physiology, University of Ibadan, 2020 to 2022.

IX. Research:

(a) Completed

1. Comparative analysis of salivary secretion and composition in malaria positive and malaria negative individuals.
2. Evaluation of salivary secretion and composition in pregnant and non-pregnant women.
3. Age-related changes in salivary secretion and composition in rats.
4. Electrolytes and glucose levels in saliva of diabetic patients with periodontitis.
5. Association of Langerhans cells with histological grade of oral squamous cell carcinoma.
6. Serum and salivary immunoglobulin profile of UCH patients with orofacial carcinoma.
7. Opinions of Dental Surgeons on the preferred management of impacted canines.
8. Oral health awareness, attitude and practices of diabetic patients.
9. Use of saliva, blood and urine for clinical testing; health care providers and patients' views.
10. Association between oral health, salivary cytokines and growth hormones among sports and non-sports persons in selected sports settings in Ibadan.

11. Oral mucosal lesions and inflammatory jaw swellings in patients attending dental centre of the University College Hospital, Ibadan.
 12. Nutritional status and mechanisms of salivary secretion in rats.
 13. Oral and salivary changes in patients with chronic kidney disease.
 14. Effects of caffeine on salivary secretion in rats
 15. Role of salivary cytokines and antimicrobial proteins in malaria-induced oral changes
 16. Effect of *occimun gratissimum* on diabetes-induced hyposalivation in male Wistar rats.
- (b) In progress**

1. Effect of sleep deprivation on salivary secretion and composition in rats. aimed at evaluating changes in salivary function after partial or total sleep deprivation in rats. Some of the findings have shown that total sleep deprivation is associated with impaired salivary function. We are currently investigating the mechanisms underlying impaired salivary secretion associated with sleep deprivation.
2. Mechanisms underlying diabetes-induced salivary hypofunction in diabetes mellitus: This study was designed to assess the various mechanisms involved in salivary impairments associated with diabetes mellitus using animal models. Some of the findings have implicated downregulation of the cholinergic system.
3. Influence of different regime of intermittent fasting on salivary secretion and salivary oxidative stress status. This study aimed at assessing the effect of different regime of intermittent fasting on salivary secretion and salivary oxidative stress status and their mechanisms.

(c) Project, Dissertation and Thesis

1. Lasisi, T.J. (2007). Electrolytes and glucose levels in saliva of diabetic patients with periodontitis, submitted to the Department of Physiology, University of Ibadan in part fulfillment of the award of Master of Science in Physiology, February 2007.
2. Lasisi, T.J. (2011). Association of Langerhans cells with histological grade of oral squamous cell carcinoma submitted to the Faculty of Dental Surgery, National Postgraduate Medical College in part fulfillment of the award of Fellow of the Medical College in Oral Pathology, November 2011.
3. Lasisi, T.J. (2012). Serum and salivary immunoglobulin profile of UCH patients with oro-facial carcinoma submitted to the West African College of Surgeons in part fulfillment of the award of Fellow of the College in Oral Pathology, April 2012.
4. Lasisi, T.J. (2018). Influence of nutritional status on salivary secretion in Wistar rats submitted to the Department of Physiology, University of Ibadan in part fulfillment of the award of Doctor of Philosophy (PhD) in Physiology, September 2018.

X. Publications:

a. Books already published: Nil

b. Chapters in Books already published: Nil

c. Articles that have already appeared in Referred Conference Proceedings: Nil

d. Patents and copyrights: Nil

e. Articles that have already appeared in learned journals:

1. Lasisi, O.A., Olaniyan, F.A., Muibi, S.A., Azeez, A.I., Idowu, K.G, **Lasisi, T.J.**, Imam, Z.K., Yekini, T.O. and Olayemi, O. (2007). Clinical and demographic risk factors associated with chronic suppurative otitis media. *International Journal of Pediatric Otorhinolaryngology* Vol. 71. No. 10:1549-1554. (United States of America) (Contribution: 20%).
2. Lawal, A.O., Adisa, A.O. and **Lasisi, T.J.** (2011). Florid cement-osseous dysplasia: a report of two cases seen at the University College Hospital, Ibadan. *Annals of Ibadan Postgraduate Medicine* Vol. 9. No. 1:48-50. (Nigeria) (Contribution: 20%).

3. Adeyemi, A.T. and **Lasisi, T.J.** (2011). Opinions of Dental Surgeons on preferred management of impacted canines. *Nigerian Dental Journal* Vol. 19. No. 1:9-11. (Nigeria) (Contribution: 30%).
4. **Lasisi, T.J.** and Fasanmade, A.A. (2012). Saliva composition in diabetic and non-diabetic patients. *Nigerian Journal of Physiological Sciences* Vol. 27. No. 2:79-82. (Nigeria) (Contribution: 80%).
5. **Lasisi, T.J.** and Fasanmade, A.A. (2012). Comparative analysis of salivary glucose and electrolytes in diabetic individuals with periodontitis. *Annals of Ibadan Postgraduate Medicine* Vol. 10. No. 1:25-30. (Nigeria) (Contribution: 80%).
6. **Lasisi, T.J.**, Adeyemi, B.F., Oluwasola, O.A., Lasisi, O.A. and Akang, E.E. (2012). Orofacial squamous cell carcinoma- A twenty-year retrospective clinicopathological study. *African Journal of Medicine and Medical Sciences* Vol. 41. No. 3:265-270. (Nigeria) (Contribution: 50%).
7. Lasisi, O.A., Fehintola, F.A. and **Lasisi, T.J.** (2012). Role of plasma melatonin and vitamins C and B12 in the development of idiopathic tinnitus in the elderly. *Ghana Medical Journal* Vol. 46. No. 3:152-157. (Ghana) (Contribution: 30%).
8. **Lasisi, T.J.**, Yusuf, B.O., Lasisi, O.A. and Akang, E.E.U. (2013). Serum and salivary IgA evaluation of patients with oro-facial squamous cell carcinoma. *International Journal of Otolaryngology Head and Neck Surgery* Vol. 2. No. 1:42-45. (United States of America) (Contribution: 60%).

9. **Lasisi, T.J.**, Adisa, A.O. and Olusanya, A.A. (2013). Appraisal of jaw swellings in a Nigerian tertiary healthcare facility. *Journal of Clinical and Experimental Dentistry* Vol. 5. No. 1:e42-47. (Spain) (Contribution: 60%).
10. **Lasisi, T.J.**, Abdus-salam, A., Lasisi, O.A. and Akang, E.E.U. (2013). Evaluation of serum and salivary IgG in head and neck squamous cell carcinoma. *British Journal of Medicine and Medical Research* Vol. 3. No. 4:2269-2275. (United Kingdom) (Contribution: 60%).
11. **Lasisi, T.J.**, Oluwasola, O.A., Lasisi, O.A. and Akang, E.E. (2013). Association between Langerhans cells population and histological grade of oral squamous cell carcinoma. *Journal of Oral and Maxillofacial Pathology* Vol. 17. No. 3:329-333. (India) (Contribution: 60%).
12. **Lasisi, T.J.**, Adisa, A.O. and Olusanya, A. (2014). Fibro-osseous lesions of the jaws in Ibadan, Nigeria. *Oral Health and Dental Management* Vol. 13. No. 1:41-44. (United States of America) (Contribution: 60%).
13. **Lasisi, T.J.**, Kolude, B., Lasisi, O.A. and Akang, E.E.U. (2014). Analysis of serum and salivary IgM in patients with oro-facial epithelial cancers. *Indian Journal of Dental Research* Vol. 25. No.1:38-41. (India) (Contribution: 60%).
14. Lasisi, O.A., Onakoya, P.A., **Lasisi, T.J.**, Akinola, M.D. and Tongo, O. (2014). Neonatal hearing screening in a rural/sub-urban community in Nigeria, sub-Saharan Africa - A Preliminary Report. *International Journal of Pediatric Otorhinolaryngology* Vol. 78. No. 9:1452-1455. (United States of America) (Contribution: 20%).

15. **Lasisi, T.J.**, Shittu, S.T., Oguntokun, M.M. and Tiamiyu, N.A. (2014). Aging affects morphology but not stimulated secretion of saliva in rats. *Annals of Ibadan Postgraduate Medicine* Vol. 12. No. 2: 109-114. (Nigeria) (Contribution: 60%).
16. **Lasisi, T.J.** and Ngwuadu, P.N. (2014). Pregnancy related changes in human salivary secretion in a Nigerian population. *African Journal of Medicine and Medical Sciences* Vol. 43. No. 4: 347-351. (Nigeria) (Contribution: 80%).
17. **Lasisi, T.J.** and Lasisi, O.A. (2015). Evaluation of serum antioxidants in age related hearing loss. *Aging Clinical and Experimental Research* Vol.27. No. 3: 265-269.

(Switzerland) (Contribution: 80%).
18. Adedokun, B.O., Yusuf, B.O., **Lasisi, J.T.**, Jinadu, A.A., Sunmonu, M.T., Ashanke, A.F. and Lasisi, O.A. (2015). Perception of genetic testing for deafness and factors associated with interest in genetic testing among deaf people in a selected population in Sub-Saharan Africa.

Journal of Genetic Counseling Vol. 24. No. 6: 1037-1043. (United States of America) (Contribution: 20%).
19. **Lasisi, T.J.** and Alada, A.R. (2015). Effects of induced-kwashiorkor on salivary parameters in Wistar rat. *African Journal of Medicine and Medical Sciences* Vol. 44. No. 2: 125-132.

(Nigeria) (Contribution: 80%).

20. **Lasisi, T.J.**, Duru, M.E. and Lawal, B.B. (2015). Salivary secretion and composition in malaria: A case control study. *Nigerian Journal of Physiological Sciences* Vol. 30. No.

1-2: 119-123. (Nigeria) (Contribution: 70%).

*21. Adeyemi, B.F., Adisa, A.O., **Lasisi, T.J.** and Akinyamoju, A.O. (2016). Dysplastic papilliferous basaloid ameloblastoma: Report of a case. *Nigerian Dental Journal* Vol. 24. No.

1:248-252. (Nigeria) (Contribution: 20%)

22. **Lasisi, T.J.**, Raji, Y.R. and Salako, B.L. (2016). Salivary creatinine and urea analysis in patients with chronic kidney disease: A case control study. *BMC Nephrology* Vol.

17. No 10: 1-6. (United Kingdom) (Contribution: 70%).

23. Shittu, S.T., Oyeyemi, W.A., **Lasisi, T.J.**, Shittu, S.A., Lawal, T.T. and Olujobi, S.T. (2016). Aqueous leaf extract of *Ocimum gratissimum* improves hematological parameters in alloxan-induced diabetic rats via its antioxidant properties. *International Journal of Applied and Basic*

Medical Research Vol. 6. No 2: 96-100. (India) (Contribution: 20%).

24. **Lasisi, T.J.** and Adeniyi, F.A. (2016). Effects of acute exercise on salivary free Insulin- like Growth Factor 1 and Interleukin 10 in sportsmen. *African Health Sciences* Vol. 16.

No 2: 560-566. (Uganda) (Contribution: 70%).

25. Denise, Y., Tekin, D., Bademci, G., Foster, II J., Cengiz, F.B., Kannan-Sundhari, A., Guo, S., Mittal, R., Zou, B., Grati, M., Kabahuma, R.I., Kameswaran, M., **Lasisi, T.J.**, Adedeji, W.A., Lasisi, O.A., Menendez, I., Herrera, M., Carranza, C., Maroofian, R., Crosby, A.H., Bensaid, M., Masmoudi, S., Behnam, M., Mojarrad, M., Feng, Y., Duman, D., Alex, M.M., Alex, S.N., Blanton, S.H., Liu, X. and Tekin, M. (2016). Spectrum of DNA variants for non-syndromic deafness in a large cohort from multiple continents. *Human Genetics* Vol. 135. No 8: 953-961. (Germany) (Contribution: 20%).
26. **Lasisi, T.J.**, Lawal, F.B. and Fasanmade, A.A. (2016). Oral health awareness, practices and status of patients with diabetes attending a tertiary health institution in Nigeria. *Nigerian Journal of Medicine* Vol. 25. No. 4: 307-314. (Nigeria) (Contribution: 60%).
27. **Lasisi, T.J.**, Shittu, S.T., Meludu, C.C. and Salami, A.A. (2017). Differential effects of total and partial sleep deprivation on salivary factors in Wistar rats. *Archives of Oral Biology* Vol. 73: 100-104. (United Kingdom) (Contribution: 60%).
28. **Lasisi, T.J.** and Abimbola, T.A. (2017). Clinico-pathologic review of biopsied tongue lesions in a Nigerian tertiary hospital. *Annals of Ibadan Postgraduate Medicine* Vol. 15. No. 2: 109-113. (Nigeria) (Contribution: 80%).
29. **Lasisi, T.J.**, Adisa, A.O., Effiom, O.A., Olawuyi, A.B., Omitola, O.G., Soyele, O.O.,

Ogundana, O.M. and Okoh, M. (2017). Challenges associated with learning Oral Diagnostic Sciences: A multicenter study in Nigeria. *Medical Journal of Zambia* Vol.

44. No. 4: 261-265. (Zambia) (Contribution: 50%).

30. Shittu, S.T., Oyeyemi, W.A., Shittu, S.A. and **Lasisi, T.J.** (2018). *Ocimum gratissimum* inhibits glycogen phosphorylase activity without changes in hepatic nuclear factor kappa b (nf- κ b) and inducible nitric oxide synthase (inos) in streptozotocin-induced diabetic rats. *The Nigerian Medical Practitioner* Vol. 73. No. 1-2: 10-17. (Nigeria)

(Contribution: 20%).

31. **Lasisi, T.J.**, Adisa, A.O. and Okengwu, C.N. (2018). Inflammatory jaw swelling: Review of 1,276 cases seen at the University College Hospital, Ibadan. *Medical Journal of Zambia* Vol. 45. No. 1: 45-53. (Zambia) (Contribution: 60%).

32. **Lasisi, T.J.** and Abdussalam, A.R. (2018). Pattern of oral health among a population of pregnant women in Southwestern Nigeria. *Archives of Basic and Applied Medicine* Vol.

6. No. 1: 99-103. (Nigeria) (Contribution: 70%).

33. **Lasisi, T.J.**, Raji, Y.R. and Salako, B.L. (2018). Saliva based analysis of biochemical factors in patients with chronic kidney disease undergoing hemodialysis. *African Journal of Medicine and Medical Sciences* Vol. 47. No 2: 179-184. (Nigeria) (Contribution: 70%).

34. **Lasisi, T.J.**, Shittu, S.T. and Alada, A.R. (2018). Re-establishing normal diet following high fat diet-induced obesity reverses altered salivary composition in Wistar rats. *Journal of Basic and Clinical Physiology and Pharmacology* Vol. 29. No 3: 1-6. (Germany) (Contribution: 70%).
35. **Lasisi, T.J.** and Abdussalam, A.R. (2018). Pregnancy-induced periodontal inflammation: influence of salivary cytokines and antimicrobial proteins. *Saudi Dental Journal* Vol. 30. No 3: 306-311. (Saudi Arabia) (Contribution: 80%).
36. Shittu, S.T., **Lasisi, T.J.**, Ogundele, J.O. and Kpai, T. (2018). Effect of vitamin c on glucose metabolism in partial and total paradoxical sleep-deprived male Wistar rats. *Journal of African Association of Physiological Sciences* Vol. 6. No 1: 52-64. (Nigeria) (Contribution: 20%).
37. **Lasisi, T.J.** and Lawal, F.B. (2018). Views and preferences of patients attending a tertiary hospital in Nigeria on use of saliva for clinical or laboratory tests. *African Journal of Medicine and Medical Sciences* Vol. 47. No 3: 1-6. (Nigeria) (Contribution: 60%).
38. **Lasisi, T.J.**, Shittu, S.T. and Alada, A.R. (2018). Switching to normal diet reverses kwashiorkor-induced salivary impairments via increased nitric oxide level and expression of aquaporin 5 in the submandibular glands of male Wistar rats. *Applied Physiology, Nutrition, and Metabolism* Vol. 44 No. 4: 365-372. (Canada) (Contribution: 70%).

39. **Lasisi, T.J.**, Raji, Y.R. and Salako, B.L. (2018). Salivary electrolytes, total protein and immunoglobulin A in patients with chronic kidney disease and healthy individuals. *Nigerian Journal of Physiological Sciences* Vol. 33. No 2: 177-182. (Nigeria) (Contribution: 70%).
- *40. Shittu, S.T., **Lasisi, T.J.**, Shittu, S.A. and Ogundiran, A. (2018). Reversal of diabetes-induced intestinal hyperplasia in male rats treated with *Ocimum gratissimum* leaf extract. *The Nigerian Medical Practitioner* Vol. 74. No. 1-2: 10-17. (Nigeria) (Contribution: 20%).
- *41. **Lasisi, T.J.**, Lawal F.B. (2019). Preference of saliva over other body fluids as samples for clinical and laboratory investigations among healthcare workers in Ibadan, Nigeria. *Pan Afr Med J.* Vol. 34: 191. (Nigeria) (Contribution: 60%).
- *42. **Lasisi, T.J.** (2020). COVID-19 diagnosis: how reliable is saliva test? *Nig Dent J.* Vol. 28: 93-100. (Nigeria) (Contribution: 100%).
- *43. **Lasisi, T.J.**, Shittu, S.T., Abeje, J.I., Ogunremi, K.J., Shittu, S.A. (2021). Paradoxical sleep deprivation induces oxidative stress in the submandibular glands of Wistar rats. *Journal of Basic and Clinical Physiology and Pharmacology* Vol. 32. No 1: 1-6. (Germany) (Contribution: 50 %).
- *44. Aliyu, O.A., Adedeji, W.A., Daniel, A., Yusuf, A.T., Onakoya, P.A., **Lasisi, T.J.**, Lasisi, A.O. (2021). Hearing thresholds of Nigerian Navy Personnel serving in Lagos Area. (Nigeria) (Contribution: 20 %).
- *45. Yusuf, A.T., Raji, Y.R., **Lasisi, T.J.**, Daniel, A., Bamidele, O.T., Fasunla, A.J., Lasisi, A.O. (2021). Predictors of taste dysfunction and its severity among patients with chronic kidney disease. *Ear Nose Throat Journal* Vol.100. No. **1:19-25**. (USA) (Contribution: 20 %).

*46. Shittu, S.T., **Lasisi, T.J.**, Shittu, S.A., Adeyemi, A., Adeoye T.J. and Alada, A.R.A. (2021). *Ocimum gratissimum* enhances insulin sensitivity in male Wistar Rats with Dexamethasone-induced Insulin Resistance. *Journal of Diabetes and Metabolic Disorders* Vol. 74. No. 1-2:

10-17. (Nigeria) (Contribution: 20 %).

*47. Yusuf, A.T., Raji, Y.R., **Lasisi, T.J.**, Daniel, A., Bamidele, O.T., Fasunla, A.J., Lasisi, A.O. (2021). Effect of Chronic Kidney Disease on taste function - A case control study among Nigerian. *Indian Journal of Otolaryngology and Head & Neck Surgery* (India) (Contribution: 20%).

48. **Lasisi, T.J.**, Shittu, S.T., Kolade, B.A., Akobi, M.A., Usman, A.A. (2022). Differential effect of short- and long-term caffeine administration on salivary flow rate, amylase, IgA and C-reactive protein in male Wistar rats. *Archives of Basic and Applied Medicine* Vol. 10. No 1:

15-21.

f. Books, Chapters in Books and Articles already accepted for publication: Nil

g. Technical Reports and Monographs: Nil

XI. Major Conferences with Papers Read and Training Workshops Attended (in the last 5 years):

- 1) MEPIN Year 05 Faculty Development Retreat/Symposium, Ibadan, Nigeria, 21st to 24th, March 2016.

Paper Read:

-Saliva as a diagnostic fluid in chronic kidney disease: a case control study

- 2) 5th Unibadan Conference of Biomedical Research (UCBR-5), Ibadan Nigeria, 12th to 16th July, 2016

Paper Read:

-Salivary secretion under different nutritional status in Wistar rats

- 3) The International Brain Research Organization (IBRO)9-Day Neuroscience Course organized by Global Education Initiative for Nigeria in Partnership with the University of

Ibadan Nigeria, 19th to 27th July, 2016

- 4) 7th International Congress of the African Association of Physiological Sciences and 36th PSN Scientific Conference, Lagos, Nigeria, 5th to 8th September, 2016

Paper Read:

- Obesity and salivary secretion in Wistar rats

- 5) 5th Annual Scientific Conference of the Nigerian Association of Dental Public Health

(NADPH), Ibadan, Nigeria, 21st to 24th February 2017.

Paper Read:

- Use of Saliva for Clinical or Laboratory Tests: Patients' Views
- 6) Workshop on Ethics of Animal Care and Use in Research by the Animal Care and Use in Research Committee (ACUREC) of the University of Ibadan, 19th to 20th July, 2017.
- 7) 2nd Regional Scientific Conference of the International Association of Oral Pathology & Oral Medicine (IAOPM), African chapter, Accra, Ghana, 2nd to 5th August 2017.

Papers Read:

- Role of salivary cytokines and antimicrobial proteins in pregnancy induced oral changes
 - Use of Saliva for Clinical or Laboratory Tests: Knowledge and practices of a population of health care workers in Nigeria
 - Inflammatory jaw swellings: Analysis of 1,204 cases seen at the University College Hospital, Ibadan, Nigeria.
 - Challenges Associated with Learning Oral Diagnostic Sciences: A Multicenter Study in Nigeria
- 8) 6th Unibadan Conference of Biomedical Research (UCBR-6), Ibadan Nigeria, 10th to 14th July, 2018.
 - 9) 59th Scientific Conference of West African College of Surgeons, Dakar, Senegal, 20th to 24th January 2019.
 - 10) 2019 Gordon Research Conference (GRC) on Salivary Glands and Exocrine Biology, Galveston, Texas, 3rd to 8th February, 2019.
 - 11) Workshop on "Saliva Collection Guidelines" by Gordon Research Conference (GRC),

Galveston, Texas, 6th February, 2019.

12) Mental Health Research Methodology workshop by WHO Collaborating Centre,

Department of Psychiatry, University of Ibadan, 17th to 19th February, 2020.

XII. Ten Best Publications that Reflect the Totality of my Contributions to Scholarship

1. **Lasisi, T.J.** and Fasanmade, A.A. (2012). Saliva composition in diabetic and non-diabetic patients. *Nigerian Journal of Physiological Sciences* Vol.27. No. 2, 79-82.
2. **Lasisi, T.J.** and Ngwuadu, P.N. (2014). Pregnancy related changes in human salivary secretion in a Nigerian population. *African Journal of Medicine and Medical Sciences* Vol. 43. No. 4, 347-351.
3. **Lasisi, T.J.** and Alada, A.R. (2015). Effects of induced-kwashiorkor on salivary parameters in Wistar rat. *African Journal of Medicine and Medical Sciences* Vol. 44. No. 2, 125-132.
4. **Lasisi, T.J.**, Raji, Y.R. and Salako, B.L. (2016). Salivary creatinine and urea analysis in patients with chronic kidney disease: A case control study. *BMC Nephrology* Vol. 17. No 10, 1-6.
5. **Lasisi, T.J.** and Adeniyi, F.A. (2016). Effects of acute exercise on salivary free Insulinlike Growth Factor 1 and Interleukin 10 in sportsmen; *African Health Sciences* Vol. 16. No 2, 560-566.

6. **Lasisi, T.J.**, Shittu, S.T., Meludu, C.C. and Salami, A.A. (2017). Differential effects of total and partial sleep deprivation on salivary factors in Wistar rats. *Archives of Oral Biology* Vol. 73. 100-104.
7. **Lasisi, T.J.**, Shittu, S.T. and Alada, A.R. (2018). Re-establishing normal diet following high fat diet-induced obesity reverses altered salivary composition in Wistar rats. *Journal of Basic and Clinical Physiology and Pharmacology* Vol. 30. No 1: 111-120.
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XIII. Research Focus

My research activities have focused mainly on salivary secretion in health and diseases. In that regard, I have studied the effect of various conditions such as pregnancy, exercise, aging, nutritional status, diabetes mellitus, oral squamous cell carcinoma, malaria, chronic kidney disease and sleep deprivation on salivary secretion in human and animal models. My research has found that diabetes as well as malaria is associated with reduced salivary flow rate which has also been implicated in some oral complications of these conditions. My research on pregnancy and salivary secretion has found that pregnant women are predisposed to higher caries incidence due to reduced salivary pH and bicarbonate concentrations. Furthermore, from my work on the role of salivary cytokines and antimicrobial proteins in pregnancy-induced oral changes, correlations were found between salivary IFN-gamma along with TNF-alpha and periodontal indices. These findings indicate the contributions of these salivary factors to the pathophysiology of pregnancy-induced periodontal inflammation. My studies on salivary immunoglobulin classes in cancer patients found that serum IgA appeared to be better index than salivary IgA whereas salivary IgG may be a useful biomarker in patients with head and neck squamous cell carcinoma. My study on salivary secretion in patients with chronic kidney disease (CKD) won the best outstanding *research* Award of the College of Medicine, University of Ibadan in 2016. Some of the findings were that analysis of salivary urea and creatinine in patients with CKD showed good sensitivity and specificity (86% and 94% respectively, for urea and 93% and 85% respectively, for creatinine) and that saliva also reflected the plasma levels of biochemical factors in the pre and post dialysis states. Hence, saliva could be an alternative to blood in monitoring patients with CKD undergoing dialysis. My work on salivary secretion and sleep deprivation in rats for the first time reported that total sleep

deprivation was associated with reduced salivary flow rate, secretion rate of IgA as well as increased amylase activity. Furthermore, sleep recovery of four hours produced ameliorative effects on the impaired salivary secretion. From my work on nutritional status and salivary secretion in rats, it was reported for the first time that diet-induced obesity as well as kwashiorkor, resulted in impairments of salivary secretion which were reversed by returning to normal diet. In addition, my study for the first time has demonstrated that kwashiorkor caused significant reduction in salivary secretion through reduction of nitric oxide level and aquaporin5 expression in the submandibular salivary glands.

Signature: Date: