

CURRICULUM VITAE

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AD Scientific Index: <https://www.adscientificindex.com/scientist/yinusa-raji/92403>

Research Gate Profile: <https://www.researchgate.net/profile/Yinusa-Raji/3>

October 2023

- I** (a) Name: Yinusa **Raji**
- (b) Date of Birth: 01 January, 1965
- (c) Department: Physiology
- (d) Faculty: Faculty of Basic Medical Sciences
- (e) College: College of Medicine, University of Ibadan
- II** (a) First Academic Appointment: Assistant Lecturer, 01 July, 1991
- (b) Present Post (with date): Professor, 01 October, 2010

III University Education (with dates):

- (i) University of Ibadan October 1984 - July 1987
- (ii) University of Ibadan October 1988 - January 1990
- (iii) University of Ibadan January 1990 - August 1995

IV Academic Qualification (with dates and granting bodies):

- (i) B.Sc. (Hons.) Physiology, University of Ibadan, July 1987
- (ii) M.Sc. Physiology, University of Ibadan, January 1990
- (iii) Ph.D. Physiology, University of Ibadan, August 1995

V Professional Qualifications and Diplomas (with date):

F. Med. Ed: FAIMER Institute (Philadelphia, USA), 2007-2009 -Fellowship in International Medical Education and Research: FAIMER Institute, Philadelphia, USA 2007- 2009

VI Scholarships, Fellowships and Prizes (with date) (in respect of Undergraduate and Postgraduate work only)

1. Postgraduate School Ibadan, Teaching Assistantship-1990-1991
2. Welcome Nigeria Funds Research Grant-1992
3. Postgraduate School Ibadan, Travel Grants Award, 2001

4. FAIMER Philadelphia Institute Fellowship, USA-2007-2009
5. TWAS-UNESCO Fellowship to Centers of Excellence in China, 2008-2011
6. FAIMER (USA) Travel Fellowship to University of Stellenbosch, Cape Town-2008
7. FAIMER (USA) Travel Fellowship to Khartoum, Sudan-2009
8. TETFund Travel Grant to Experimental Biology Congress, Boston, USA-2015
9. Physoc UK Travel Grant to Physoc 2015 Congress, Cardiff, UK-2015

VII Honours, Distinctions, Awards and Membership of Learned Societies:

1. Professor and Head, Department of Physiology College of Medicine, University of Ibadan-1st August, 2016-31st July, 2020
<https://drive.google.com/file/d/1e1zbe4X2r4LiIxpoxaVRbxZTMhenk3hv/view?usp=sharing>
2. *National Assignment*: Member Inter-Ministerial Technical Working Committee for Review of National Medical & Dental Curriculum-(Integration of Basic and Clinical Science) by the Federal Government of Nigeria-Ministry of Health/USAID- National Medical & Dental Curriculum Template-June 2011-September 2012
3. *National Assignment*: Chairman or Member, National Universities Commission (NUC) Undergraduate (MBBS, BDS and B.Sc.) programmes' Accreditation/Resource Verification Panels to Nigerian Universities (Visited many Federal, State and Private Universities). Some of the Universities are:
 - ✓ Member, Accreditation Exercise MBBS, University of Uyo, November 2014
 - ✓ Resource Verification Exercise MBBS, Turkish-Nile University Abuja, 2015
 - ✓ Resource Verification Exercise MBBS, University of Medical Sciences, Ondo, 2015
 - ✓ Resource Verification Exercise B.Sc., Physiology, Adeleke University Ede, October 2016
 - ✓ Resource Verification Exercise B.Sc., Physiology, Baze University, Abuja, 2016
 - ✓ Member, Accreditation Exercise B.Sc., Physiology, Bingham University, Karu Nasarawa State November 2015
 - ✓ Chairman, Accreditation Exercise B.Sc., Physiology, Bingham University, Karu Nasarawa State November 2018

- ✓ Chairman, Accreditation Exercise B.Sc., Physiology, Bauchi State University, Gadau, Bauchi November 2017
 - ✓ Chairman, Accreditation Exercise B.Sc., Physiology, Gregory University, Uturu, Abia State, November 2018
 - ✓ Member, Accreditation Exercise B.Sc., Physiology, Cross River University of Science and Technology, University, Okuku, Cross River State November 2018
 - ✓ Resource Verification Exercise MBBS, AbuBakar Tafawa Balewa University (ATBU), Bauchi, Bauchi State, 2016
 - ✓ Resource Verification Exercise B.Sc., Physiology, University of Nigeria, Enugu Campus, 2016
 - ✓ Member, Accreditation Exercise B.Sc., Physiology, Bauchi State University, Gadau, Bauchi December 2019
 - ✓ Member, Accreditation Exercise B.Sc., Physiology, University of Lagos, November 2019
 - ✓ Chairman, Accreditation Exercise MBBS, Ahmadu Bello University Zaria, November 2019
4. National Assignment: Member (Physiology Lead), National Universities Commission (NUC) Postgraduate Resource Verification Team to Nigerian Universities. Some of the Universities are:
- ✓ Resource Verification Exercise Postgraduate Physiology, Postgraduate Anatomy, Ma Dona University Elele Rivers State
 - ✓ Resource Verification Exercise Postgraduate Physiology, Postgraduate Anatomy, Afe Babalola University Ado Ekiti
 - ✓ Resource Verification Exercise Postgraduate Physiology, Igbinedion University, Okada, Edo State, June 2019
5. Chairman, College of Medicine Curriculum Committee, August 2017-July 2020
6. Chairman, Faculty of Basic Medical Sciences Curriculum Development Committee, August 2016-July 2018
7. Hall Master, Abubakar Abdusalami Postgraduate Hall, May 2015-January 2017
8. Assistant Editor-in-Chief, African Journal of Medicine and Medical Sciences. October 2014-July 2021
9. Editorial Board membership, African Journal of Medicine and Medical Sciences, 1998-July 2021
10. Member College of Medicine Academic Board 1998-2002 & 2010 till date.
11. Elected congregation member of Senate, University of Ibadan 1998-2005

12. Statutory Senate member, University of Ibadan 2010 till date
13. Fellow, FAIMER Institute, Philadelphia USA, 2007-2009
14. Senate Research Grant, University of Ibadan, Nigeria, 1997, 1999, 2000, 2006
15. Faculty of Basic Medical Sciences Nominee on MacArthur Sponsored Workshop on Fundraising Fundamentals, February 2007
16. University of Ibadan Travel Fellowship Award to South Africa 2008
17. TWAS-UNESCO Associateship Fellowship Award utilized in: State key Laboratory of Molecular Biology, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai, China-March –June 2009-Host: Professor Y-L Zhang
18. Visiting Scientist: State key Laboratory of Molecular Biology, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai, China-May – July 2011-Host: Professor Y-L Zhang

Awards

19. **Teaching:** Favourite/Best Lecturer Award, in Preclinical Basic Medical Sciences:
 - (a) Presented by the University of Ibadan Medical Students' Association (UIMSA); 2000, 2001, 2003, 2004, 2006, 2010, 2014
 - (b) Presented by the Graduating Class of MBBS University of Ibadan 2000, 2001, 2003, 2005
 - (c) Presented by the Graduating Class of BDS University of Ibadan 2000, 2001, 2003, 2005
 - (d) Presented by Students' Physiology Association of Nigeria, (SPAN) University of Ibadan, 2005
 - (e) Award and Dedication of the Annual Inter-Level Football Competition of The University of Ibadan Physiology Students' Association (UIPSA) as: Professor Y. Raji inter-level football competition, effective Sept 2021
20. Best Department of the Year Award under my leadership presented by the University of Ibadan Medical and Dental Students Associations-2018

21. Award of Honour to Professor Y. Raji, for accomplishments as Head of Department, (1st August 2016-31st July, 2020) presented by the University of Ibadan Physiology Students Association (UIPSA)-July 2020
22. Letters of acknowledgement and commendation presented by the Vice-Chancellor, Deputy Vice-Chancellor (Adm) and Deputy Vice-Chancellor (RISP)-2017, 2018, 2019 and 2020 for accomplishments and submission of yearly report of stewardship as Head of Department (1st August 2016-31st July, 2020)

23. Reviewer of manuscripts for;

- (a) African Journal of Medicine and Medical Sciences
 - (b) African Journal of Biomedical Research
 - (c) Journal DOHaD
 - (d) Reproductive Medicine and Biology
 - (e) Nigerian Journal of Physiological Sciences
 - (f) African Journal of Biotechnology
24. Assessor of Candidates' Publications for Promotion to Professorial Grades for local and foreign Universities
 25. External Expert on Interview Panel for Appointment to Professorial Cadres, University of Lagos, Lagos-2018 and 2019
 26. External Expert on Interview Panel for Appointments to Professorial Cadres, Lagos State University, Ojo, lagos-2019
 27. External Expert in Recruitment of Academic Staff (Professorial, 2010 and others 2016) for Osun State University, Osogbo
 28. External Expert for Recruitment of Academic and Technical members of Staff for Chrisland University, Abeokuta, 2020

29. Membership of Learned Societies:

- (a). Member, Physiological Society of Nigeria (PSN)
- (b). Member, African Association of Physiological Society (AAPS)
- (c). Member, Nigerian Society for Experimental Biology (NSEB)

- (d). Member, The American Physiological Society (APS)
- (e). Member, Federation of American Society for Experimental Biology (FASEB)
- (f). Member, International Society for Developmental Origins of Health and Disease (DOHaD)
- (g). Member Physiological Society (Physoc) of UK
- (h). Members, Public Responsibility in Medicine and Research (PRIM&R) USA
- (i). Member, African Association of Biomedical Scientists (AABS)

VIII Details of Teaching Experience at University level:

1. Years of Experience

Teaching experience at the University level since 1991:

1. Department of Physiology, University of Ibadan, Assistant Lecturer 01 July, 1991-September 1993
2. Department of Physiology, University of Ibadan, Lecturer II Oct 1993-September 1996
3. Department of Physiology, University of Ibadan, Lecturer I September 1996-July 2000
4. Department of Physiology, University of Ibadan, Senior Lecturer, August 2000-September 2006
5. Department of Physiology, Ladoke Akintola University of Technology, Ogbomoso, Nigeria, Visiting Senior Lecturer (Sabbatical) November 2002-October 2003
6. Visiting Professor (Part-Time), Igbinedion University Okada, 2007-2008
7. Department of Physiology, Osun State University Osogbo Visiting Reader (Sabbatical) and HOD Physiology Department, February 2011-January 2012
8. Department of Physiology, University of Ibadan, Reader, 01 Oct 2006-Sept 2010
9. Department of Physiology, University of Ibadan Professor, 01 October 2010 to date
10. Department of Physiology, Osun State University Osogbo Visiting Professor (Sabbatical)- 20 August, 2021-19 August, 2022

2. Subjects, Programmes and Levels Taught

I have taught (and still teaching) at various times and examined all the systems in Physiology and arranged tutorial and practical classes in Physiology to the following groups of students:

1. 200-400 Level B.Sc (Physiology) University of Ibadan 1991 to date
2. 200 and 300 Level M.B.B.S and B.D.S University of Ibadan 1991 to date

3. 200Level B. NS University of Ibadan 1991 to date
4. 200LevelB.Sc Physiotherapy University of Ibadan 1991 to date
5. 200Level B. Pharmacy University of Ibadan 1991 to date
6. 200Level Human Nutrition University of Ibadan 1998-date
7. 300 Level B.Sc Biochemistry University of Ibadan 1998-2005
8. Medical Laboratory Technology, University College Hospital, 1990-1996
9. Nurse/Midwife Tutors course, University College Hospital Ibadan 1990-2010
10. Primary Health Tutors course, University College Hospital Ibadan, 1990-2010
11. 400 Level LTTS Physiology/Pharmacology University of Ibadan, 1994 to 2001
12. 700 Level M.Sc. Physiology, University of Ibadan 1999 to date
13. 700 Level M.Sc. Anatomy, University of Ibadan 1999 to date
14. 700 Level M.Sc. Nursing, University of Ibadan 1999 to date
15. 700 Level M. Sc Biomedical Education 2010-2013
16. 200 and 300 Levels MB,BS, and 200-400 Level B.Sc. (Physiology) Ladoke Akintola University of Technology, Ogbomoso, Nigeria 2002-2003 -Sabbatical
17. 200 and 300 Levels MB,BS and 300-400 Level B. Sc. Physiology, Igbinedion University Okada (Visiting Professor, 2007-2008)
18. 200 and 300Levels M.B.B.S Osun State University 2011-2012-Sabbatical leave
19. 200 Level Physiology and Anatomy, Baze University Abuja-Visiting Professor (Part-Time) May 2017-December 2018

Resource person to:

1. West African College of Surgeons Revision Courses (Physiology)
2. West African College of Surgeons-Faculty of Obstetrics and Gynecology Revision Course (Physiology)
3. West African College of Physicians-Laboratory Medicine (Physiology)
4. Update Course in Anesthesia for Resident Doctors

3. Project Supervision

Bachelor's Degree Programme: I have successfully supervised one hundred and twenty B.Sc., Physiology Final Year Students' Dissertations from 1992 to date.

Postgraduate Project Supervision

Master's of Science (M.Sc.) Degree Programmes:

I have successfully supervised 80 M.Sc. students in Physiology

I have successfully supervised 1 M.Sc., Biomedical Education dissertation

Master's of Philosophy Degree (M. Phil.) in Physiology:

1. ODUYEMI, Oluwatosin Aisha, M.Phil. (Ibadan) 2019: *In vitro* assessment of methanol extract of *Carpolobia lutea* G. DON root in rabbit corpus cavernosum smooth muscle
2. OYAWALE, Mogboluwa Tosin, M.Phil. (Ibadan) 2019: Comparison of male reproductive functions in offspring of glucose-, sucrose- and fructose-fed Wistar rats

Ph.D. Students Successfully Supervised and Mentored with Thesis Titles:

1. OLAYEMI, Funsho Olakitike, Ph.D. Physiology (Ibadan), 2007: Evaluation of the reproductive and toxic effects of *Cnestis ferruginea* (de Candolle) root extract in male rats
2. AKINSOMISOYE, Olumide Stephen, Ph.D. Physiology (Ibadan), 2010: Effects of proguanil, dapsone and artesunate on male reproductive activities in mammals
3. SALAMI, Shakiru Ademola, Ph.D. Physiology (Ibadan), 2012: Effects of maternal exposure to *Ricinus communis* oil on generational reproductive indices in Wistar rats
4. OYEYIPO, Ibukun Peter, Ph.D. Physiology (Ibadan), 2014: Effects of NG Nitro-L-Arginine Methyl Ester on Nicotine -Induced Infertility in Male Wistar Rats.
5. OBEMBE, Olawale Olaleye, Ph.D. Physiology (Ibadan) 2014: Effects of *Quassia amara* and quassin in epididymal functions and hormonal profiles in rats and their offsprings
6. OYEKUNLE, Olanrewaju Akinloye, Ph.D. Physiology (Ibadan) 2015: Erectogenic and spermiologic effects of stem bark extracts of *Nauclea latifolia* (Smith) in rabbits
7. JEJE, Sikirullahi Olatunde, Ph.D. Physiology (Ibadan) 2015: Effects of maternal treatment with dexamethasone on male reproductive functions in F₁ and F₂ offsprings of Wistar rats
8. KUNLE-ALABI, Olufadekemi, Ph.D. Physiology (Ibadan) 2017: Effects of *Cocos nucifera* Linn. Water on maternal high fat diet-induced metabolic and reproductive changes in offsprings of Wistar rats

9. AKINDELE, Oreofe Opeyemi, Ph.D. Physiology (Ibadan) 2017: Effects of maternal sleep deprivation on reproductive functions of male offsprings in Wistar rats
10. OLANIYAN, Tope Olugbemi, PhD Physiology (Ibadan) 2017
11. OYEYEMI, Adekunle Wahab, Ph.D. Physiology (Ibadan) 2018: Amendment of lead acetate-induced reproductive toxicity in male Wistar rats using methanol extract of *Sida corymbosa* R. F. Fries leaves and Palmitic acid, ethyl ester.
12. AKINOLA, Adeniran, Ph.D. Physiology (Ibadan) 2018: Amelioration of Cadmium-induced reproductive toxicity in male Wistar rats using methanol extract of *Carpolobia lutea* G. DON root, Palmitic acid and Nonanoic acid
13. AKINTAYO, Christopher Oloruntoba, Ph.D. Physiology (Ibadan) 2018: Modulatory activity of quercetin on reproductive functions in alcohol-and nicotine-treated male Wistar rats
14. ADEDOKUN, Kabiru Isola, Ph.D. Physiology (Ibadan) 2019: Ameliorative potential of methanol extract of *Tithonia diversifolia* (HEMSL) leaf on lead acetate-induced reproductive toxicity in male Wistar rats
15. OLADOKUN, Olayemi Olutobi, Ph.D. Physiology (Ibadan) 2019: Spermatogenic and erectogenic activities of the ethanol extract of *Sphenocentrum jollyanum* Pierre root in rats and rabbits
16. OGUNWOLE, Eunice, Ph.D. Physiology (Ibadan) 2019: Assessment of reproductive functions in male Wistar rats treated with *Saccharum officinarum* Molasses
17. ADELEYE, Olushola Emmanuel, Ph.D. (Ibadan) 2020: Aqueous extract of *Allium cepa* L. scaly leaf ameliorates reproductive dysfunctions in sodium chloride-induced hypertensive male Wistar rats
18. ADEDOTUN, Oore-Oluwapo Iretioluwa, Ph.D. (Ibadan) 2021: Methanol extract of *Parquetina nigrescence* and squalene ameliorate arsenic trioxide induced reproductive toxicity in male Wistar rats
19. AHMED, Taofiqat Tosin, Ph.D. (Ibadan) 2021: Maternal administration of *Citrus limon* Linn. Juice, oleic, palmitic and stearic acids reduce placental efficiency and foetal morphometry in Wistar rats
20. SHITTU, Seyyid Alli-Sisse, Ph.D. (Ibadan) 2022: Erectogenic activities and mechanism of action of aqueous extract of *Ocimum gratissimum* Linn. leaf and thymol on penile tissue in Wistar rats

21. HART, Victor Opuada, Ph.D. (Ibadan) 2023: Ameliorative effects of *Dennettia tripetala* Baker F. seed and linoleic acid on hyperglycaemia-induced testicular dysfunction in male Wistar rats

CURRENT POSTGRADUATE STUDENTS

Master's of Science (M.Sc.) Level

1. Islamiyah Motunrayo OLORUNTELE (Matric No : 225436): Effects of N-acetylcysteine on Carbamazepine-induced reproductive toxicity in female Wistar rats- Year of Admission: 2020/2021
2. Olusegun Ayo ALAWODE (Matric No:227815): Effects of *Ocimum gratissimum* on testicular energy metabolism in male Wistar rat- Year of Admission: 2020/2021
3. Henry UGOMMA (Matric No: 227669): Effects of early administration of levonorgestrel on fertility index in female Wistar rat- Year of Admission: 2020/2021
4. Iyobosasere Osadebamwen IYAMU (Matric No: 226397): Effects of chronic exposure to sodium arsenite on fertility index in male Wistar rats- Year of Admission: 2020/2021
5. Osamede Pearl OSAWARU (Matric No: 226399): Effect of chronic exposure to sodium arsenite on testicular energy metabolism in male Wistar rats- Year of Admission: 2020/2021
6. Zainab Oluwabukola AIGORO (Matric No: 226461): Effects of *Ocimum gratissimum* on corpus cavernosum response to peripheral tone modulators in dexamethasone induced metabolic syndrome in Wistar rats *in vitro*- Year of Admission: 2020/2021
7. Tolulope ADENIJI-KESTER (Matric No: 184425): Protective Effect of N-acetylcystiene on Carbamazepine induced infertility in male Wistar rats- Year of Admission: 2020/2021

Doctoral (Ph.D.) Level

1. Damilare Hakeem ADEYEMI (Matric No: 174429): Mechanisms of erectile impairment in reserpine-induced depression-like behaviour with or without fluoxetine treatment in New Zealand rabbits - Year of Admission: 2016/2017
2. Jessica Edem AKPAN (Matric No: 180642): Effects of maternal consumption of *Piper guineense* and piperine during lactation on reproductive functions of offspring of Wistar rat- Year of Admission:2017/2018
3. Latif Opeyemi ADEGBITE (Matric No: 148976): Modulatory activities of *Allium cepa* Linn. juice on uterine functions in Wistar rats- Year of Admission: 2018/2019

4. Abiodun OYERINDE (Matric No: 180646): Effects of paternal sodium arsenite exposure on F1- Year of Admission: 2018/2019
5. Uyai Edidiong FRANCIS (UDOFIA) (Matric No: 166973): Effects of administration of crude extract of *Buchholzia coriacea* and some of its pure active compounds on the reproductive system of male rats prenatally exposed to hyperglycemia- Year of admission: 2019/2020
6. Great Oluwamayokun ALABI (Matric No: 201153): Alternative treatment of Polycystic ovarian syndrome and its related conditions- Year of Admission: 2020/2021
7. Afsat Motunrayo BUSARI (Matric No: 181412): Uterotonic effect of aqueous leaf extract of *Annona muricata*- Year of Admission: 2021/2022
8. Aminat Tope SALAUDEEN (Matric No: 159625): Mechanisms of action and structural activity relationship of *Bryophyllum pinnatum* effect on uterine function- Year of Admission: 2021/2022
9. Oluwatosin Aisha ODUYEMI (Matric No: 127253): Effects of *Carpolobia lutea* G. Don Roots extract on rabbit corpus cavernous smooth muscle in vitro- Year of Admission 2021/2022

4 Examination Assignments Outside the University of Ibadan

1. External Examiner, Ph.D. Thesis Gulbarga University of Gulbarga 585106, India-1997
2. External Examiner for Science Laboratory Technology: Olabisi Onabanjo University Ago-Iwoye, Nigeria-1999
3. External Examiner, Ph.D. Thesis Institute of Medical Sciences, Banaras Hindu University, V4. Aranasi 221 005, India-2004
4. External Examiner, Ph.D. Thesis/ University of Lagos, Idi-Araba Campus Lagos, Nigeria 2010, 2011
5. Examiner, West African College of Surgeons-Primaries 2000-2004
6. External Examiner, MBBS and BDS Part I Degree Examinations, University of Benin, Benin City, Edo State, Nigeria 2006
7. External Examiner, MBBS and BDS Part I Degree Examinations/ Igbinedion University, Okada, Edo State, Nigeria 2005-2006
8. External Examiner, MBChB, BDS, B.NS and B.Med.Rehab. Part I/II Degree Examinations Obafemi Awolowo University, Ile-Ife, Osun State, Nigeria 2008-2015
9. External Examiner, MBBS and BDS Part I Degree Examinations/ University of Nigeria, Enugu Campus 2011-2014
10. External Examiner for B.Sc., Physiology, University of Ilorin 2010-2014 and 2019
11. External Examiner B.Sc., Basic Medical Science, University of Ilorin 2012

12. External Examiner B.Sc., Physiology, Olabisi Onabanjo University Ikenne Campus 2012-2017
13. External Examiner, Ph.D. Thesis, University of Benin, Benin City 2013 to date
14. External Examiner, M.Sc., Dissertation, Department of Physiological Sciences, OAU Ile- Ife 2012 to date
15. External Examiner, MBBS Part I Degree Examinations, Ekiti State University College of Medicine 2014 to 2017
16. External Examiner B.Sc., M.Sc., Physiology and MBBS/BDS, University of Benin, Benin City 2015-2017
17. External Examiner, MBBS Part I Degree Examination, LASUCOM Ikeja Lagos 2012 to 2015
18. External Examiner, B.Sc., Physiology University of Lagos 2014 to 2018
19. External Examiner, M.Sc., & PhD UNN Enugu Campus 2017
20. External Examiner, PhD Univ. of Witwatersrand South Africa 2018
21. External Examiner, M. Sc Physiology, BUK, Kano 2017 to date
22. External Examiner, B.Sc., Physiology, Osun State University Osogbo, 2018-2019
23. External Examiner, B.Sc., Physiology, Federal University of Technology Akure (FUTA), 2019 to date
24. External Examiner, M.Sc., Physiology, Lagos State University, LASUCOM Ikeja Lagos, 2022-

5 Administrative Experience

1. Assistant Coordinator, General Studies Programme, College of Medicine, University of Ibadan, 1991-1994
2. Departmental representative on the Board of Faculty of Pharmacy, 1996-2002
3. Departmental representative on the Board of Postgraduate School, University of Ibadan, 1998-2002
4. Departmental Coordinator of Academic Programmes including Lecture, Practical and Examinations time-table and Examination Officer, 1998-2002
5. Member task force on the establishment of Molecular Medicine and Biotechnology, College of Medicine, University of Ibadan-1999-2002
6. Member College Advisory Committee on Implementation of Centre for Research, Consultancy and Development, University of Ibadan-1999-2002
7. Sub-Dean Undergraduate (B.Sc.) and Acting Sub-Dean Postgraduate, Faculty of Basic Medical Sciences, University of Ibadan-2001-2002
8. Member, Faculty of Basic Medical Sciences Beautification Committee, 1999-2002
9. Member Organizing Committee, College of Medicine, University of Ibadan, Workshop on Curriculum Reviews-2004

10. Member College of Medicine Research Advisory Committee, 2006
11. Member College Curriculum Committee, MBBS Curriculum Review-2004-2013
12. Coordinator, Seminar and Postgraduate Matters, Department of Physiology University of Ibadan-2007-2010
13. Coordinator, Lecture and Examination Time Table, MBBS/BDS, Department of Physiology, College of Medicine University of Ibadan-2007-2010
14. Member Implementation Committee of New MBBS/BDS Curriculum, College of Medicine University of Ibadan-May 2010-2014
15. Head, Department of Physiology (On sabbatical) Osun State University Osogbo-March 2011- January 2012
16. Statutory Member of Senate University of Ibadan, 2010 to date
17. Hall Master, Abdulsalami Abubakar Postgraduate Hall, University of Ibadan, May 2015 to January 2017
18. Head of Department, Department of Physiology, College of Medicine, University of Ibadan-1st August 2016 to 31st July 2020. For *My Stewardship and Hand-Over Notes*: <https://drive.google.com/file/d/1e1zbe4X2r4LiIxpoxaVRbxZTMhenk3hv/view?usp=sharing>

Cognate Experience in Medical Education and Curriculum Development

1. Member Inter-Ministerial Technical Working Committee on Review of National Medical & Dental Curricula-(Integration of Basic and Clinical Sciences) by the Federal Government of Nigeria-Ministries of Education and of Health/USAID-National Medical & Dental Curriculum Template-June 2011-September 2012
2. Chairman or Member, National Universities Commission (NUC) Undergraduate (MBBS, BDS and B.Sc.) programmes' Accreditation/Resource Verification Panels to Nigerian Universities
3. Member (Physiology Lead), National Universities Commission (NUC) Postgraduate Resource Verification Team to Nigerian Universities. (Visited many Federal, State and Private Universities in all the six geopolitical zones of Nigeria in 2 and 3 above).
4. Chairman, College of Medicine Curriculum Committee, August 2017-July 2020
5. Chairman, Faculty of Basic Medical Sciences Curriculum Development Committee, August 2016-July 2018
6. Sub-Dean Undergraduate (B.Sc.) and Acting Sub-Dean Postgraduate, Faculty of Basic Medical Sciences, University of Ibadan-2001-2002
7. Member Organizing Committee, College of Medicine, Workshop on Curricula Reviews-2004
8. Member College Curriculum Committee for MBBS Curriculum Review-2004-2013

9. Head, Department of Physiology College of Medicine, University of Ibadan-1st August, 2016-31st July, 2020

IX Research-Raji Y.

(a) Completed:

1. Effects and mechanisms of action of some antimicrobial medicinal plants such as *Quassia amara*, *Azadirachta indica*, *Alstonia boonei*, *Morinda lucida*, *Ricinus communis* and *Cnestis ferruginea* on male reproductive functions in rats
2. Effects and mechanisms of some synthetic antimicrobial drugs such as ampicillin, cloxacillin, tetracycline, chloroquine, mefloquine, arthemeter and sulphadoxine-pyrimethamine on male reproductive functions in mammalian species
3. Gastrointestinal handling of some medicinal plant extracts (*Azadirachta indica*, *Entandrophragma angolense*, *Piper guineense*, *Irvingia gabonensis*, *Tylophora conspicua* and *Quassia amara*) with reproductive activities
4. Effects and mechanism of action of Proguanil, Dapsone and Artesunate on male reproductive functions.
5. Review and Development of Nigerian Medical and Dental Curriculum. Served on the Inter-Ministerial Advisory Committee that developed a national template-Technical Report

(b) In progress:

1. ***Molecular mechanisms of action of phytoestrogens, medicinal plant alkaloids, synthetic alkaloids and antimicrobial drugs on male reproductive activities:*** The testes and epididymes from *Azadirachta indica* induced phenotypically infertile rats were probed for special sperm motility related proteins such as HongrES1, rBD-15, Bin1b, ESC7 and rBD42 using Western blot analyses with 1D and 2D Gel Technologies and analyses of miRNA and mRNA expressions. So far, the results revealed that most medicinal plants with negative impact on male reproduction possess phytoestrogens in variable concentrations.
2. ***Reproductive Programming effects and mechanisms of different foods, drugs, environment toxicants, medicinal plants and sleep-deprivation, in male and female Wistar rats:*** The fetal programming hypothesis presupposes that a stimulus or insult acting during critical periods of growth and development may permanently alter tissue structure and function. Programming is now known to be an important underlying feature of many systemic adult diseases. While it is clear that fetal programming is not simply the effects of genes passed on through generations, the phenotype of offspring subjected to a variety of intrauterine challenges is determined by lifelong gene expression patterns set into motion during critical windows of development and that in some instances these phenotypes may pass on their effects to future generations. It is in realization of this that

studies were designed to investigate the fetal programming effects of the antimalarial and antibiotic drugs and medicinal plants extracts with these activities on reproduction, using rats as the animal model. Currently *Quassia amara*, *Ricinus communis*, *Sphenocentrum jollyanum*, Artesunate, antihypertensive drugs and caffeine are being investigated. Sleep deprivation effects and mechanisms on programming of different aspects of fetal Physiology are also being investigated.

3. *Survey and biological evaluation of aphrodisiac medicinal plants in selected locations of South Western Nigeria:* This study is a prelude to detailed laboratory investigation of these natural products from some of which we have generated preliminary data. This is a pioneering work that is expected to show case some of the aphrodisiac agents of medicinal plants origin with the possibility of comparing their efficacy and side effects with those of the synthetic aphrodisiac drugs.

4. *Development of Multiple-Track Undergraduate and Postgraduate Physiology Curriculum*

(c) Project, Dissertation and Thesis-Raji Y.

1. Effects of garlic extract on alloxan-induced diabetes mellitus in Wistar rats: B.Sc., project, University of Ibadan (117 Pages), 1987
2. Cassava diet and reproduction in the female albino rats: M.Sc. Dissertation, University of Ibadan (149 Pages), 1990
3. Hormone and drug stimulation of testosterone secretion in the rat Leydig cell: Ph.D. Thesis, University of Ibadan (325 Pages), 1995
4. Concurrent teaching of reproduction by three disciplines: Foundation for International Medical Education and Research (FAIMER), Philadelphia Institute, USA (F. Med. Ed., 2009)

X Publications:

**YINUSA RAJI
LIST OF PUBLICATIONS**

Published Book

1. Raji Y (2018): Benevolence or Malevolence: The Curious Wonder of Natural Agents on Reproductive Physiology; An Inaugural Lecture (444th) delivered at the University of Ibadan on Thursday September 20, 2018. Ibadan University Press Publishing House, University of Ibadan; 1-77 <https://www.ui.edu.ng/inaugural-series/benevolence-or-malevolence-curious-wonder-natural-agents-reproductive-physiology-0>

Journal Articles

2. Njar V. C. O, Alao T. O, Okogun J. I, Raji Y, Bolarinwa AF and Nduka EU (1995): Antifertility activity of *Quassia amara*: Quassin inhibits the steroidogenesis in rats Leydig cells in vitro. *Planta Medica* 61: 180-182 <https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-2006-958044>

3. Njar V.C.O, Adesanwo J. K and Raji Y (1995): Methyl angolensate. The antiulcer agent of the stem bark of *Entandrophragma angolense*. *Planta Medica* 61: 91-92 PMID: 7701005 DOI: [10.1055/s-2006-958015](https://doi.org/10.1055/s-2006-958015)

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5. Raji Y and Odusan M. O (1999): Reproductive functions of female rats fed cassava-based diets. *African Journal of Biomedical Research* 2:107-115 [https://www.google.com/search?rlz=1C1CHBF_enNG814NG814&source=univ&tbm=isch&q=Raji+Y+and+Odusan+M.+O+\(1999\)](https://www.google.com/search?rlz=1C1CHBF_enNG814NG814&source=univ&tbm=isch&q=Raji+Y+and+Odusan+M.+O+(1999))

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8. Raji Y, Hammed A. I, Adesanwo J. K and Ogunwande I. A (2000): Antiulcerogenic effects of *Tylophora conspicua* in male rats. *Phytotherapy Research* 14: 378-380 [https://doi.org/10.1002/1099-1573\(200008\)14:5%3C378::AID-PTR617%3E3.0.CO;2-Q](https://doi.org/10.1002/1099-1573(200008)14:5%3C378::AID-PTR617%3E3.0.CO;2-Q)

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10. Falusi A. G, Ademowo O. G, Latunji C. A, Okeke A. C, Olatunji P. O, Onyekwere T. O, Jimmy E. O, **Raji Y**, Heddo C. C, Otukonyong E. E and Itata E. O (2000): Distribution of ABO and Rh genes in Nigeria. *African Journal of Medicine and Medical Sciences* 29: 23-26 <https://pubmed.ncbi.nlm.nih.gov/11379462/>
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contractile functions of testicular artery and sperm parameters in male Wistar rats. *Middle East Fertility Society Journal*. 25(8): 1-10

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126. Akinola A.O. , Wahab O.A. and **Raji Y** (2021): *Carpolobia lutea* Root extract improved steroidogenic activity in male Wistar rats exposed to Cadmium. *Nigerian Journal of Physiological Science* 36: 181 – 187

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127. Akinola, A.O. , Oyeyemi, W.A. , Omotoso, D.R. , Daramola, O.O. and **Raji, Y** (2022): Protective role of methanol extract of *Carpolobia lutea* root against cadmium-induced changes in biochemical and antioxidant indices in liver of male Wistar rats. *Ife Journal of Science* vol. 24, no. 1: 59-72 <https://dx.doi.org/10.4314/ijs.v24i1.6>

128. Ogunwole E., Kunle-Alabi O. T., Akindele O. O. and Raji Yinusa (2022): Effects of *Saccharum officinarum* molasses on haematology and hepatic functions of male Wistar rats. *International Journal of Current Research in Physiology and Pharmacology* Vol 6, Issue 1: 1-8

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129. Daramola O. O, Oyeyemi W. A, Akinola A. O and **Raji Y** (2023): Haematological and biochemical changes in arsenic trioxide-induced toxicity in Wistar rats treated with methanol extract of *Parquetina nigrescens* leaf Nigeria *Journal of Physiological Science (In Press)*

130. Oyeyemi W. A, Akinola O. A, Daramola O. O and **Raji Y** (2023): Steroidogenic and spermatogenic activities of methanol extract of *Sida corymbosa* leaves in Lead acetate-distorted male Wistar Rats' reproductive functions (*submitted for publication*)

Selected Published Conference Proceedings

131. Salami S. A and **Raji Y** (2014): Alterations in androgen-regulated reproductive development in rats exposed to *Ricinus communis* oil during different gestation period. The Power of Programming: *Proceedings of International Conference on Developmental Origins of Adiposity and Long-Term Health*, Munich, Germany; 03/2014

- 132.** Obembe O. O and **Raji Y** (2014): Morphometric variables of offspring of *Quassia amara* treated albino rats. The Power of Programming: *Proceedings of International Conference on Developmental Origins of Adiposity and Long-Term Health*, Munich, Germany; 03/2014
- 133.** Jeje S. O and **Raji Y** (2014): The effect of neonatal dexamethasone exposure on some kidney functions in male offspring The Power of Programming: *Proceedings of the International Conference on Developmental Origins of Adiposity and Long-Term Health*, Munich, Germany; 03/2014
- 134.** Kunle-Alabi O. T, Udofia U. A, Akindele O. O, Eyieta A. E, Oyawale M. T, **Raji Y** and Bolarinwa AF (2014): Effects of testosterone propionate administration at puberty on serum insulin and testosterone levels in male offspring of hyperglycemic rats The Power of Programming : *Proceedings of the International Conference on Developmental Origins of Adiposity and Long-Term Health*, Munich, Germany; 03/2014
- 135.** Akindele O. O, Udofia U. A, Kunle-Alabi O. T, Ahmed T. T, **Raji Y** and Bolarinwa A. F (2014): Effects of maternal hyperglycemia at different stages of gestation on male reproductive functions in rats *Proceedings of the International Conference on Developmental Origins of Adiposity and Long-Term Health*, Munich, Germany; 03/2014
- 136.** Jeje S. O and **Raji Y** (2014): Effects of neonatal dexamethasone exposure on metabolic imbalance and oxidative stress marker in the liver of male albino rats The Power of Programming: *Proceedings of the International Conference on Developmental Origins of Adiposity and Long-Term Health*, Munich, Germany; 03/2014
- 137.** **Raji Y** (2015): Maternal sleep deprivation affects morphometry and cardiovascular functions of Wistar rat offspring. *Proceedings of the Physiological Society of UK*, <https://www.physoc.org/abstracts/maternal-sleep-deprivation-affects-morphometry-and-cardiovascular-functions-of-wistar-rat-offspring/>
- 138.** **Raji Y**, Dare A, Kunle-Alabi O. T and Akindele O. O (2015): Assessment of aphrodisiac effects of methanol extract of *Carpolobia lutea* root in male rabbits. *The FASEB Journal* 04/2015. Vol 29(1); Supplement 685.3-Proceeding of Exp. Biol https://doi.org/10.1096/fasebj.29.1_supplement.685.3
- 139.** Kunle-Alabi O. T, Akindele O. O, Oyowvi M, Duro-Ladipo M and **Raji Y** (2015): Effects of coconut water on reproductive functions in danazol treated Wistar rats. *The FASEB Journal* 04/2015. Vol 29(1); Supplement 685.1-Proceeding of Exp. Biol https://doi.org/10.1096/fasebj.29.1_supplement.685.1
- 140.** Akindele O. O, Kunle-Alabi O. T, Oghenetega B. O, Adeyemi D. H and **Raji Y** (2015): Effects of methotrexate on serum testosterone level in sleep-deprived male Wistar rats. *The FASEB Journal* 04/2015. Vol 29(1); Supplement 685.6-Proceedings of Exp. Biol <https://pubmed.ncbi.nlm.nih.gov/26937527/>

XI Selected Conferences

- 1st International Conference of South African Association of Health Educators June 2008: University of Stellenbosch Cape Town South Africa
- FAIMER Residential Session 2, Philadelphia USA: October/November 2008
- 3rd Sudan International Conference on Medical Education: October/November 2009 Khartoum, Sudan
- XXXTH Scientific Conference of the Physiological Society of Nigeria; Lagos State University College of Medicine, Ikeja Lagos-August 26th –August 27th 2010
- Conference of the State key Laboratory of Molecular Biology, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai China-June 2011
- University of Ibadan Biomedical Research Conference, July 2012
- First National Medical Educator Conference, Ibadan, September 2012
- Physiological Society of Nigeria Conference, Feb 2014
- DOHaD Conference, Munich Germany, March 2014
- University of Ibadan Biomedical Research Conference, July 2014
- Endocrinology 2014 Conference, Chicago USA, Double Tree by Hilton, Oct 19-Oct 23, 2014
- Experimental Biology Congress, Boston Convention and Exhibition Centre, Boston MA USA, March 28-April 1, 2015
- The Physiological Society Congress, Motorpoint Arena, Cardiff UK, July 6-9, 2015

Yinusa Raji-October 2023