# RESEARCHER CURRICULUM VITAE/RESUME

(A) P	ERSONAL INFORMATION:		
1.	Name	:	Nasir Tsafe Umar-Tsafe
	Other Name(s)	:	Nasir Tsafe Umar, Nasir Umar-Tsafe
2.	Academic/Professional Name-tags	:	BSc (Sokoto), PGD (Leeds), AIBMS (London), MSc (Malaysia), i-MLSCN (Abuja), MPH (Non-Grad)
3.	Passport Numbers	:	B833451, A2156171, A01374006 and <b>A07614447.</b>
4.	Sex	:	Male
5.	Marital Status	:	Married
6.	Date/Place of Birth	:	28 December 1968/Tsafe-Nigeria
7.	LGA/State of Origin	:	Tsafe/Zamfara
8.	Nationality	:	Nigerian
9.	Telephone/Mobile No.	:	+234 (0)806 821 7026; +98 (0)936 220 9950.
10.	Email Address	:	untsafe@yahoo.com; untsafe@gmail.com
11.	Current Academic Affiliations (June 2021 to Date)	:	[a] Pharmaceutical Sciences Research Centre, Shahid Beheshti University of Medical Sciences, Tehran, Vali e Asr Street @ Niayesh, SW of Hashemi Rafsanjani Highway, P-Code 199683-5113, I.R. Iran. [b] Health in Emergencies & Disasters Dept, School of Public Health & Safety, Shahid Beheshti University of Medical Sciences, Tehran, Yemen St @ Shahid Shahriari Sq, Shahid Chamran Highway, Postal Code 198353-5511, Islamic Republic of Iran.
12.	Current Position/Employment Address	:	2010-Date: Co-ordinator & Laboratory Manager, Centre for Lead Poisoning Control & Prevention, Department of Public Health, Ministry of Health, KFA Women & Children Hospital, 880001 Samaru, Gusau, Zamfara State, NIGERIA.
13.	Year/Position/Address of Previous Employment(s)	:	
14.	Security/Criminal Records (Disclosure Check Results)	:	None Recorded (Copies of results from both the UK, Malaysia & Nigeria are available)
15.	Signature and Photograph	:	Dimaru.
16.	Date Revised	:	01st June 2021

(B) EDUCATIONAL QUALIFICATIONS: B1. Academic Qualifications:	
Level 1 Field Year of Completion Name and Place of Institution Title of BSc Thesis	<ul> <li>Bachelor of Science (BSc) Degree</li> <li>Biochemistry (Coursework &amp; Thesis)</li> <li>1990</li> <li>Usmanu Danfodiyo University, Sokoto, Nigeria.</li> <li>Urinary and Serum Oxalate in Pregnant Women in Usmanu Danfodiyo University (UDU) Teaching Hospital, Sokoto.</li> </ul>
Major Courses	: General Biochemistry Courses; Physical & Analytical Biochemistry; Clinical Biochemistry; Pharmacological Biochemistry; Industrial Biochem.; Physical & Inorganic Chemistry; Organic Chemistry; Advanced Organic Chemistry; Plant Physiology; Genetics, Mathematics, Physics and General Studies.
Level 2 Field Year of Completion Name and Place of Institution Title of PGD Dissertation Core Modules	<ul> <li>Post Graduate (PG) Diploma (for AIBMS London)</li> <li>Clinical Laboratory Sciences (Coursework &amp; Thesis)</li> <li>1995</li> <li>University of Leeds, Leeds, United Kingdom.</li> <li>Risk Assessment in the Laboratory.</li> <li>Cellular Pathology; Clinical Endocrinology; Clinical Laboratory Science; Clinical Case Studies; Homeostasis; Adaptation &amp; Disease; Immunity &amp; Infection; and Research Dissertation.</li> </ul>
Level 3a Field Year of Completion Name and Place of Institution Title of MSc Thesis  Core Courses	<ul> <li>: Master of Science (MSc) Degree</li> <li>: Genetics (Anti-Cancer &amp; Genotoxicity, 25% CW &amp; 75% Research)</li> <li>: 2008</li> <li>: Universiti Putra Malaysia, Serdang, Malaysia</li> <li>: Elucidation of Basic Mechanisms of Flavokawin B Inhibitory Effects on the Growth of Selected Cancer &amp; Transfrmd Normal Cell Lines.</li> <li>: Industrial and Environmental Toxicology; Special Topics in Human Genetics; Health Research Methods and Biostatistics; Research Proposal Seminar; English for Graduate Studies; Basics of Malay Skills 1 and Masters Research Thesis.</li> </ul>
Level 3b Field  Training Period Name and Place of Institution Title of Training Research Thesis  Compulsory Courses (All Passed)	<ul> <li>Public Health Training Course (Non-Graduating)</li> <li>Field Epidemiology and Laboratory Management (25% Coursework and 75% Fieldwork/Research)</li> <li>2011 – 2013 (Reg. No.: ABU/MPH/NFELTP/MED/00029/2011)</li> <li>Ahmadu Bello University, Zaria, NIGERIA</li> <li>Genotoxicity of Lead in Blood and Buccal Cells of Under-Five Children in Bagega and Tsafe, Zamfara, Nigeria</li> <li>Basic Epidemiology; Biostatistics; Public Health Surveillance; Computer Application; Research Methodology; Priority Diseases; Scientific Communications; Advanced Epidemiology; Zoonosis; Laboratory Management and Policy; Laboratory Quality Management; Fundamentals of Laboratory Methods; Teaching and Mentoring; Leadership and Management; Special Topics in Public Health; and MPH Research Thesis.</li> </ul>
Level 4a (Current Studies) Field(s) Year of Commencement Name and Place of Institution	<ul> <li>Doctor of Philosophy (PhD) Degree / Professional Certificate</li> <li>Toxicology (by Research) / Disaster Epidemiology</li> <li>June 2021 to Date (on-going)</li> <li>Shahid Beheshti University of Medical Sciences, Tehran, I.R. Iran</li> </ul>

OFESSIONAL QUALIFICATIONS/EXC1. Professional Courses/Training	
Field 1 Year of Completion	<ul> <li>Biomedical Sciences ('AIBMS' Associate Diploma Certificate)</li> <li>1995</li> </ul>
Name and Place of Institution	: Institute of Biomedical Science (IBMS), London, UK.
Field 2	: Course on Food & Water Microbiology (1 PCFH Certificate)
Year of Completion	: 1995
Name and Place of Institution	: The Royal Institute of Public Health and Hygiene, London, UK.
Field 3	: Trainings for Supply Teachers & Health Care Assistants (11 Cer
Year of Completion	: 2007 and 2008
Name and Place of Institution	<ul> <li>Teaching Personnel; Southern Cross Healthcare, Nottingham,</li> </ul>
Field 4	: Webinar Course on: Primary Human Cell Culture (1 Certificate
Year of Completion	: 2010
Name and Place of Institution	: The American Type Culture Collection, Corning and SIVB, USA
Field 5	: Webinar Course on: Optimizing RNAi for Cell Culture (1 Cert.)
Year of Completion Name and Place of Institution	: 2010 : The American Type Culture Collection Corning and SIVE USA
	: The American Type Culture Collection, Corning and SIVB, US
Field 6 Year of Completion	<ul><li>: Trainings on: Lead Poisoning Treatment and Prevention (3 Ce</li><li>: 2010, 2011 and 2012</li></ul>
Name and Place of Institution	<ul><li>2010, 2011 and 2012</li><li>The CDC in NYC-USA, CDC in Gusau &amp; WHO in Gusau, Nigeri</li></ul>
Field 7	: Trainings on: TB-HIV Laboratory Diagnosis/Research - ART
TIEIQ /	(Reflotron analyser, Sysmex and Cyflow cytometers), DOT (Al
	Smear - Transmission and Fluorescence), TB Culture (LJ and M
Year of Completion	and PCR (L-Probe MDR-TB typing & HIV-Viral load quantificat
Name and Place of Institution	: 2011 and 2012
	: National TB and Leprosy Training Centre, Saye, Zaria, Nigeria.
Field 8	: Training Workshop on GeneXpert Technology: An Xpert-MTB/ for the diagnosis of tuberculosis: The How and Wow of New
Year of Completion	Developments.  : 2012
Name and Place of Institution	African Society for Laboratory Medicine, Cape Town, S/African
Field 9	: Training Workshop on HIV Antiretroviral Drug Resistance and
	Genotyping/Gene Sequencing.
Year of Completion	: 2012
Name and Place of Institution	: NHLS @ 1st ASLM Conference, Cape Town, South Africa.
Field 10	: Training on: Cluster Sampling Survey - A Prevalence Study on
	Lead Poisoning in 14 LGAs of Zamfara State (1 Certificate)
Year of Completion	: 2012
Name and Place of Institution	NFELTP Training Centre, Asokoro, Abuja, Nigeria.
Field 11	: National Stop Transmission of Polio (NSTOP) National Supervision Officers Course (1 Cortificate)
Vegr of Completion	Officers Course (1 Certificate)  : 2013
Year of Completion  Name and Place of Institution	<ul><li>2013</li><li>CDC-NSTOP/AFENET Training Center, Asokoro, Abuja, Nigeria</li></ul>
Field 12	<ul> <li>Webinar/eSeminar Courses on: Studying Laser Microirradiatic</li> </ul>
TIOIQ 12	Induced DNA Damage & Repair Using Live Cell Microscopy;
	Learn How to Analyze Chromosomal Microarray Data from
	Blood, Single Cell, Hematological and Solid Tumor Samples;
	ATCC Molecular Signature Panels – Powerful Tools for the
Year of Completion	Genomics Age; Emergencies of SARS-CoV-2 Variants; Racial Ethnic Disparities and CoViD-19.
Name and Place of Institution	: 2013 – 2021 <b>(5 Certificates)</b>
Traine and Face of Hismonoff	Elsevier Scientific BV, Andor Technology& AC Medical Toxico

C2. Professional Memberships/S	ocieties:
Professional Body 1 Membership Level Membership Period	<ul> <li>Institute of Biomedical Sciences (IBMS), London, UK.</li> <li>Associate Member (AIBMS)</li> <li>1995 to Date.</li> </ul>
Professional Body 2 Membership Level Membership Period	<ul><li>Biochemical Society (BS), Surrey, UK.</li><li>Student Member</li><li>1996 to 1997.</li></ul>
Professional Body 3 Membership Level Membership Period	<ul> <li>Asia-Pacific Association of Medical Toxicology (APAMT), Malaysia</li> <li>Life Member</li> <li>2001 to Date.</li> </ul>
Professional Body 4 Membership Level Membership Period	<ul><li>Genetics Society of Malaysia (GSM), Kuala Lumpur, Malaysia</li><li>Student/RA Member</li><li>2003 to 2008.</li></ul>
Professional Body 5 Membership Level Membership Period	<ul> <li>European Society for Toxicology in Vitro (ESTIV) Ostend, Belgium.</li> <li>Student Member</li> <li>2006 to 2007.</li> </ul>
Professional Body 6 Membership Level Membership Period	<ul><li>American Society for Microbiology (ASM), USA.</li><li>Global Outreach Member</li><li>2012 to Date.</li></ul>
Professional Body 7 Membership Level Membership Period	<ul><li>African Society for Laboratory Medicine (ASLM), Ethiopia</li><li>Student Member</li><li>2012 to Date.</li></ul>
Professional Body 8 Membership Level Membership Period	<ul> <li>Medical Laboratory Science Council of Nigeria (MLSCN), Nigeria.</li> <li>Foreign-Graduate Internship/Associate Member (iMLSCN)</li> <li>2013 to Date.</li> </ul>
Professional Body 9 Membership Level Membership Period	<ul> <li>Epidemiological Society of Nigeria (EPISON), Abuja, Nigeria.</li> <li>Resident Member</li> <li>2013 to Date.</li> </ul>
C3. Relevant Computer/IT Skills	and Experience:
Microsoft Office Applications	: Access, Excel, Outlook, Picture, Power Point, Publisher and Word.
Statistical Software Applicatns.	: Epi-Info, OpenEpi, CSPro, SAS, SPSS & STATA.
Graphics Software Applicatns.	: Adobe-Photoshop, ChemDraw, Corel Draw, Kodak, Omnipage.
Referencing/Literatr. Softwares	Biomednet, End-Note, Google Scholar, HINARI-online-system, Mendeley-Desktop, Pubmed, etc.
WebServ Mang't/DigitalLibrary	: CiteSeerX-beta, IEEE-Xplore, SNMProtocol, etc.
Molecular Diagnostics Applic.	Real-Time PCR LightCycler Database, Sequencher-BioEdit

# Spoken and Written Languages:

Hausa, English, Bahasa Malaysia and Arabic

# **Hobbies/Other Interests:**

Jogging, Gymnastics, Karate, Swimming, Horse-riding, Hockey, Table-tennis & Volley-ball.

Place(s) of Work 1	: FAG-JIB Tsafe and U.D.U. Teaching Hospital, Sokoto, Nigeria
Position(s)	: First Aid Training Officer/Technical Assistant
Job Nature/Dutie(s)	<ul> <li>Voluntary: Project/Routine Diagnostic Tests in Clinical Chemis</li> </ul>
Date(s)/Reason for Leaving	: 1985-1988/Project(s) Completion
Place(s) of Work 2	: A.B.U. Teaching Hospitals, Zaria and Kaduna, Nigeria
Position(s)	: Trainee Biochemist and Trainee Medical Laboratory Scientist
Job Nature/Dutie(s)	Formal/Voluntary: Routine Diagnostic Tests in Chem-Patholog
Date(s)/Reason for Leaving	Haematology/BGS; in Micro/Parasitology and in Histopatholo
Discoulation of Marila 2	: 1987, 1991-1994/ Training Completion & Relocation to the UK
Place(s) of Work 3	: Warehousing/University of Bradford, Bradford, UK
Position(s)	: Packaging Assistant/PG Researcher : Formal: Assisting & Supervision of Pouting Duties (Conducting
Job Nature/Dutie(s)	Formal: Assisting & Supervision of Routine Duties/Conducting Vivo research on apoptosis and genetic toxicity.
Date(s)/Reason for Leaving	<ul> <li>1995-1997/Job Contract Completion &amp; Relocation to Malaysi</li> </ul>
Place(s) of Work 4	: Universiti Putra Malaysia, Serdang, Selangor, Malaysia
Position(s)	<ul> <li>Teaching and Research Assistant (Refer to more details below</li> </ul>
Job Nature/Dutie(s)	<ul> <li>Formal: Teaching Cover-Lectures, Designing, Conducting and</li> </ul>
300 (4a) 010 (3)	Supervising Research Activities on Anti-cancer Drug Develor
Date(s)/Reason for Leaving	: 1997-2000/ Job Contract Completion.
Place(s) of Work 5	: Univerisiti Teknologi, MARA, Shah Alam, Selangor, Malaysia
Position(s)	: Research Assistant.
Job Nature/Dutie(s)	: Formal: Designing, Conducting, Supervising/Teaching Resear
	Activities on Anti-cancer Drug Development (apoptosis and
	genotoxicity). Please refer to more details below.
Date(s)/Reason for Leaving	: 2000 (May-December)/ Job Contract Completion.
Place(s) of Work 6	: Universiti Putra Malaysia, Serdang, Selangor, Malaysia
Position(s)	: Research Assistant.
Job Nature/Dutie(s)	: <u>Formal</u> : Teaching & Training of PG Students, Designing,
	Conducting, Supervising, Reporting and Publishing Research
	Projects on Anti-cancer Drug Development, Apoptosis and
	Genotoxicity (Please refer to more details below).
Date(s)/Reason for Leaving	* 2001-2005/ Job Contract Completion.
Place(s) of Work 7	: Management & Science University (formerly KUTPM), Malaysi
D ::: / )	Tutor (Trainee Lecturer & Researcher).
Position(s)	Formal: Teaching various subjects in Biomedical Sciences,
Job Nature/Dutie(s)	Syllabus Development, Designing, Supervising and Publishing
	Final Year Research Projects on Anti-cancer, Apoptosis and
Date(s)/Reason for Leaving	Genotoxicity (Please refer to more details below).  2005-2006/ Relocation to the UK.
Place(s) of Work 8	Queens Medical Centre, Biomedical Sciences, University of
ridee(s) or work o	Nottingham, Nottingham, UK
Position(s)	<ul><li>Visiting Researcher.</li></ul>
Job Nature/Dutie(s)	<ul><li>Voluntary: Conducting and Reporting Research Activities on</li></ul>
000 . 10.0.0, 20.000	Pyrethroids Toxicity in vivo.
Date(s)/Reason for Leaving	2006-2007/Project Completion.
Place(s) of Work 9	: Southern Cross HealthCare (Westwolds & Chanwood Court N
	and Teaching Personnel, all inNottingham, UK
Position(s)	<ul> <li>Health Care/Teaching Assistant</li> </ul>
Job Nature/Dutie(s)	Formal: Health Care, Teaching & Supervision in Care Homes,
Date(s)/Reason for Leaving	: Schools and Colleges in Nottinghamshire & Leicestershire, UK
	2007-2009/Relocation to Nigeria.

#### (E) N T UMAR-TSAFE'S PERSONAL MOTIVATIONAL NOTES:

- [1] I am very enthusiastic, hardworking, patient, love learning and ever-ready to adapt and be flexible.
- [2] <u>In the UK</u>: At Universities of Leeds and Bradford (1995,1996), I conducted research projects on COSHH CC-Hazard system in Chemical Pathology Lab. and *In vivo* Apoptosis and Genotoxicity Studies in MLr/lpr Mice.
- [3] <u>In Malaysia</u> (Universiti Putra Malaysia, 1997-2005), I had the opportunity of <u>teaching</u> human/mammalian in vitro cell culture to undergraduates (BSc) as well as some postgraduates (MSc & PhD) students from the areas of Biochemistry, Genetics, Biomedical Sciences, Biotechnology, Medical Laboratory Sciences, Pharmacology and Drug Development.
- [4] I have experience in **establishing/setting up**, as well as **administering/managing** any teaching, research, or routine diagnostic laboratory, in the areas of biomedical sciences, biotechnology and public health. I am also able to write-up good and acceptable research proposal(s) for research grants such as IRPA/Others (Malaysia), IFS (Europe) and other grant applications (at local and international levels).
- [5] I have some experience in the **designing**, **conducting**, **supervising**, **reporting** and **or publishing** successful outcomes of research projects conducted at the levels of Diploma, BSc, MSc and PhD programmes.
- [6] At the **Management and Science University Malaysia (KUTPM, 2005-2006)**, I had the opportunity of Teaching 'Physical Chemistry' (to Diploma Pharmacy Students), 'Anatomy', 'Cell Biology & Genetics', 'Medical Diagnostic Instrumentations', 'Public Health' and 'Physiology' (to BSc Biomedicine Students).
- [7] Completed Research Projects in Malaysia (2005-2007): Eight (8) Projects completed in collaboration between KUTPM, UPM and UiTM, with six (6) research titles on Genotoxicity (in vitro & in vivo) and 2 titles on Apoptosis in Anticancer Drug Development (Using Human Breast Cancer & Other Cell Lines).
- [8] In the UK Again: At the University of Nottingham (1995-1996 & 2006-2007), I was opportuned to experience additional research endeavours on the animal behavioural toxicity and biochemical toxicity of pyrethroids (pesticidal agents), under the supervision of Assoc. Professor David E. Ray (MRC Applied Neuroscience Group and Biomedical Sciences, University of Nottingham/QMC, UK).
- [9] My teaching and care assistant jobs in **Nottingham**, **2007-2009**, enabled me to get equipped with some rich and positive experience in dealing with the young and old population of the UK society.
- [10] Lead Poisoning, Cholera, Meningitis, Measles & Gastroenteritis Outbreak Investigations in Zamfara State, Nigeria & Polio Eradication (MST-NSTOP) in Nigeria (2010 to 2020): Participated in at least 25 different project activities so far on Full Outbreak Investigations/Surveys: House-to-House, Scoping, Cluster and Outbreak-verification Surveys on LPO Characterisation, on Soil Remediation, on Water Remediation and on Health Education; conducted by the CDC-NFELTP-RRT, WHO-RRT, Blacksmith/ Terragraphics-RRT, UN/Dutch-RRT, UNICEF-SHEU-WHO-RRT and NFELTP-RRT, respectively, in Anka, Bukkuyum, Maru, Gusau and 10 other LGAs in Zamfara State, Nigeria. I also conducted preliminary, full cases&control outbreak investigations/interventions for cholera, meningitis, measles, gastroenteritis & Polio in Kano, Zamfara, Sokoto, Kogi & Niger States, Nigeria.
- [11] **DNA Labs, Kaduna (2013–2015):** Consultant Med. Lab. Scientist & QMS Officer (Diagnostics/Research: **DNA/RNA Viral Loads,** Chemical Pathology, Immunology, Haematology, **Cell Culture and Cytogenetics**).
- [12] During my **34 years general working experience (1987 2021)** through research works, postgraduate studies and teaching, in the areas of <u>biomedical/medical laboratory sciences</u>, biotechnology, biopharmaceutics/pharmacogenomics, <u>public health, environmental health</u>, **field epidemiology**, <u>cellular/molecular genetics</u> and <u>toxicology</u>, I have acquired lot of skills which are relevant to <u>diagnostic</u>, experimental, <u>teaching</u>, therapeutic/<u>curative</u>, <u>control</u> & <u>preventive</u> health applications. The synchronized areas of my skills/techniques are listed next page, please.

## (F) N T UMAR-TSAFE'S LIST OF SPECIAL SKILLS/TECHNIQUES ACQUIRED THROUGH TRAINING AND EXPERIENCE:

## I. Routine Medical Laboratory Diagnostic techniques in:

- a. Chemical Pathology
- b. Haematology, Phlebotomy & Blood Group Serology
- c. Histopathology
- d. Immunology
- e. Microbiology & Parasitology

#### II. Teaching:

<u>As a Graduate Research Assistant, a Tutor/Trainee Lecturer, a Lecturer, a Researcher</u> – taught students of Diploma Pharmacy and BSc Biomedicine at MSU; also taught students of BSc, MSc and PhD programs at the UPM (please refer to Places of Work C4 - 7 in page 4 of 13).

a. <u>Courses Taught</u>: Anatomy, Cell Biology & Genetics, Medical Diagnostic Instrumentations, Physical Chemistry, Physiology and Public Health; *In vitro* Primary/Continuous Cell Culture.

#### III. In Vitro Cell Culture, with:

- a. Over 30 different human cell lines of transformed-normal and tumour origins. I have personally cultured, propagated, frozen and utilized these cell lines for anticancer drug development, genotoxicity and other experimental purposes.
- b. <u>Three (3) different mammalian cell lines</u>, monkey (VERO, normal kidney cells), hamster (CHO, normal ovary cells) and rat (c6, gliomal cells). I have personally cultured, propagated, frozen and utilized these cell lines for anticancer drug development, genotoxicity, viral infection and other experimental purposes.
- c. <u>Two (2) insect cell lines</u>, fall armyworm ovary epithelium (sf9, Spodoptera frugiperda) and fruit fly embryo epithelium (L2, Drasophila melanogaster). I have personally cultured, propagated, frozen and utilized these two lines for viral infection and karyotyping purposes, respectively.

#### IV. Primary Cell Cuture:

- a. Human Breast Epithelium and Carcinoma
- b. Human Cervical and Ovarian Cancer
- c. I have personally managed to set-up, cultured, propagated, frozen and participated in the establishment of primary cultures from the above mentioned tissues (IV a and b). I have also utilized some of these cells for anticancer drug development, karyotyping, **genotoxicity**, genomic-DNA and other experimental purposes.

## V. Cytogenetics (Classical and Molecular):

- a. <u>Classical Cytogenetics</u> metaphase chromosomal synchronization-spread techniques using human, hamster and rat cells, through *in vitro* and *in vivo* experiments.
- b. <u>Karyotyping</u> applicable to population genetics and medical genetics (e.g., detection of Down syndrome trisomy 21, Klinefelters syndrome ploidy X, Turner syndrome, etc).
- c. <u>Molecular Cytogenetics</u> applicable to population genetics and medical genetics (FISH, M-FISH, Chromosome Painting, etc).
- d. <u>Comparative Genomic Hybridization (CGH)</u> applicable to population genetics, medical genetics and anticancer drug development.
- e. <u>Microarray-CGH and Gene Microarray</u> applicable to population genetics, medical genetics and anticancer drug development.

## VI. Immunohistochemistry (Using Manual Slides/Monolayer-Centrifuge Slides & Rapid 96-Well Test Kits):

- a. Normal Human Epithelial and Cancerous Tissues applicable to anticancer drug developmt.
- b. <u>Normal Mice Epithelial, Transgenic and Xenograft-tumour Tissues</u> applicable to anticancer drug development.

## VII. Flow Cytometry (Automated)

<u>Mammalian Cell Cycle Analysis</u>, using various cells from *in vitro* and *in vivo* sources to establish cell cycle profile, pre-G1 block and apoptosis analysis - applicable to mechanistic profile studies, medical genetics and anticancer drug development. <u>Diagnostic CD4/Comet Analysis</u>.

## VIII. Basic DNA, RNA and Proteomic Techniques (Manual & Automated)

- a. Recombinant and Genomic DNA and RNA Extraction Methods, Agarose Gel Electrophoresis (AGE) Using manual (phenol chloroform basics), commercial rapid kits and automated techniques, applicable to medical genetics, diagnostic and anticancer drug development.
- b. <u>Basic Proteomic Methods</u> using two-dimensional gel electrophoresis and silica xerogels, applicable to medical genetics and anticancer drug development.

#### IX. Gene Cloning and Gene Profiling using PCR, RT-PCR, Real-time RT-PCR

- a. <u>Qualitative & Quantitaive DNA/RNA Techniques</u> using forward Polymerase Chain Reaction (PCR), Reverse-transcriptase-PCR and Real-time PCR (Hepatis B, HCV and HIV viral loads) applicable to medical diagnostics, public health and anticancer drug development.
- b. <u>Gene Profiling</u> specific profiling of tumour preventive (p53), oncogenic (bcl-2, bax, etc), caspases (c3, c7, etc) and steroidal (pS2) inducible genes anticancer drug development.
- c. Non-Embryonic Organ Gene Cloning for pharmacogenetics and organ replacement.

#### X. DNA Finger Printing:

<u>Maternal and Paternal DNA Identity Profiling; Criminal Identity DNA Profiling</u>. Applicable to medical genetics and forensic medicine.

## XI. Pharmacogenomics and Stem Cell Studies:

<u>Individualised Chemotherapeutics</u>, applicable to medical genetics, anticancer drug development and cancer prevention.

# XII. Apoptosis and Necrosis Cell Death Analysis (Using Bright Fields, Scanning Electron and Transmission Electron Microscopy, Dark Fields - Fluorescence and Confocal Microscopy Techniques):

<u>Cellular and Molecular Mechanisms of Action of Anticancer Drugs</u> – morphologics applicable to general toxicity, medical genetics, <u>anticancer drug development and cancer prevention</u>.

#### XIII. Classical Toxicity, Neurotoxicity, Tissue, Cellular & Outbreak Toxicity:

- a. Lethal Dose Analysis, Threshold and Behavioural N.S. Response Analysis
- b. <u>Synthesis/Extraction of Liver Microsomal Enzymes and Cytochrome p450 Analysis</u>. Applicable to general toxicity, medical genetics, anticancer drug dev't & cancer prevention.
- c. <u>Lead Poisoning/CDs Outbreaks</u>: Emergency Response and Research Activities: Investigations, Analysis, Interpretations, Reports/Publications on the Epidemiological, Laboratory, Clinical Management, Pharmacological, Environmental & Health Education Aspects of Outbreak.

## XIV. Genetic Toxicity and Anti-genotoxicity (Using the Following End-Points):

<u>Chromosomal Aberrations, Micronucleus Formations (Animal-MNF & Human-MN), DNA Cometassays, Ames Test & Gene Mutations</u>-applicable to general **safety analysis**, regulatory toxicity, medical genetics, <u>anticancer drug developmnt</u>, cancer prevention & **epidemiology**.

## XV. HIV/TB Diagnostic Analysis/Research (through the ART, DOT, BSL2 and PCR Laboratories):

- a. Reflotron analyser, Sysmex/Cyflow cytometers, AFB Smear-Transmission/Fluorescence Microsc.
- b. Mycobaterium tuberculosis culture using the manual LJ/MIGT Culture System
- c. Multidrug resistant tuberculosis identification/gene typing and HIV viral and quantifications.

#### XVI. Automated TB Gene Analysis and HIV/CD4 Gene Typing/Sequencing:

- a. GeneXpert Sample and Data Analysis: An Xpert-MTB/RIF for the diagnosis of tuberculosis.
- b. HIV/CD4 Sample processing, gene typing/sequencing analysis and interpretations.

(G) DOCUMENTED RESEARCH EXPERIENCE:

1. Specific Number of Years of Experience in the Field of Research & Teaching: 21 Years

2. Fields of Specialization(s) : <u>Biomedical Sciences/Medical Lab. Sciences</u>, Biotechnology,

<u>Human Genetics</u>, <u>Field Epidemiology&Laboratory Management</u>.

3. Specific Areas of Research Interest: Genotoxicity/Antigenotoxicity, Molecular Toxicity/Epigenetics,

Cytotoxicity/Apoptosis, Pharmacogenetics, Laboratory-QMS,

Toxicology, Heavy Metal Poisoning, Disasters and Epidemiology.

4. Major Research Programmes/Projects/Field Works Completed:

Title 1 : Apoptosis and Genotoxicity Studies in the Seminiferous

Epithelium of Normal BALB/c & Transgenic MRL/lpr Mice

From : June 1996

To : September 1996

Position held : Researcher

Name and Place of Institution : University of Bradford, UK Major output : Publication (Local Thesis).

Title 2 : In vitro Screening for Cytotoxicity & Apoptosis Induction

in Human Leukaemic & Solid-tumour Cell Lines

From : 1997 To : 1999

Position held : Graduate Research Assistant

Name and Place of Institution : Universiti Putra Malaysia, Serdang, Malaysia

Major output : Publications (Local & International).

Title 3 : Anti-tumour Effects of Plant Products on the Metabolism of

Estrogens in Breast Cancer Cell Lines

From : 1999 To : 2000

Position held : Research Assistant (Voluntary)

Name and Place of Institution : Universiti Putra Malaysia, Serdang, Malaysia Major output : Preliminary Results for Grant Application.

**Title 4** : Screening of Natural Products from Plants for Identification

and Isolation of Novel Chemotherapeutic Compounds

From : May 2000

To : December 2000 Position held : Research Assistant

Name and Place of Institution : Universiti Teknologi MARA (UPM collaboration), Malaysia

Major output : - Preliminary Results for IRPA Grant Application

- <u>Teaching & Training</u> PGs & RAs on Basic Cell Culture and it's Applications in <u>Drug Development</u> and Biotechnology.

## (G) 4. Major Research Programmes/Projects/Field Works Completed (Cotinued):

Title 5 : An Assessment of the Genotoxic Potential of Plant Natural

Products In vitro

From : 2001 To : 2002

Position held : Research Assistant

Name and Place of Institution : Universiti Teknologi MARA (UPM collaboration), Malaysia

Major output : - Publications (Local & International)

- <u>Teaching & Training</u> of PGs & RAs on <u>Genotoxicity</u> and it's Applications in Drug Development and Biotechnology.

Title 6 : Elucidation of the Mechanisms Whereby Flavokawin B

Inhibits the Growth of Human Breast Cancer Cell Lines

From : 2002 To : 2005

Position held : Research Assistant

Name and Place of Institution : Universiti Putra Malaysia, Serdang, Malaysia

Major output : - Publications (Local & International)

- Teaching & Training of PGs & RAs on Apoptosis, Cell culture,

Cytogenetics, Cytotoxicity and Genotoxicity.

Title 7 : In vitro and In vivo Genotoxicty Studies: Up to Eight (8)

Concurrent Projects completed in collaboration between

KUTPM, UPM and UiTM, with six (6) research titles on Genotoxicity (in vitro & in vivo) and 2 titles on Apoptosis in Anticancer Drug Dev.(Hum. Breast Cancer/t-Normal Cell Lines).

From : 2005 To : 2006

Name and Place of Institution : Management & Science University (formerly KUTPM), Malaysia

Position held : Lecturer & Supervising Researcher
Major output : - Publications (Local & International)

- <u>Teaching & Training</u> of BSc Biomedicine Students: Apoptosis Cell culture, Cytogenetics, Cytotoxicity and <u>Genotoxicity</u>.

Title 8 : Neurotoxicity and Biochemical Toxicity of Pyrethroids in Mice

From : 2006 To : 2007

Position held : Visiting Researcher

Name and Place of Institution : Queen's Medical Centre, University of Nottingham, UK

Major output : - Publications (International-Abstract).

Title 9 : HIV Surveillance System Evaluation Report

From : May 2011 To : December 2011

Position held : Field Epidemiology Researcher

Name and Place of Institution : National TB and Leprosy Training Centre, Zaria, Nigeria.

Major output : - NFELTP Bound Volume Report.

	nes/Projects/Fieldworks Completed (Continued):
<b>Title 10</b> From	<ul><li>: Suspected Cholera Outbreak Investigation in Zaria LGA</li><li>: August 2011</li></ul>
To	: September 2011
Position held	: Field Epidemiology Researcher
Name and Place of Institution	Nigeria Field Epidemiology & Laboratory Training Program, Abuja
Major output	. NFELTP Bound Volume & Stakeholder Reports.
Title 11 From	<ul> <li>Suspected MenAfriVac-AEFI Outbreak Investigation in Bakura General Hospital (Bakura LGA), Zamfara State</li> <li>November 2011</li> </ul>
To	December 2011
Position held	Field Epidemiology Researcher/AEFI Committee Member
Name and Place of Institution	. Nigeria Field Epidemiology & Laboratory Training Program, Abuja
Major output	NFELTP Bound Volume & Stakeholder Reports.
Title 12	: Suspected Lead Poisoning Outbreak Investigations in Dogon Dajin Sarkin Noma (Bukkuyum) & Maitwasshi (Gusau), Zamfara State
From	: 2011
To Desiring leaded	· 2012
Position held	Field Epidemiology Researcher
Name and Place of Institution	<ul><li>Nigeria Field Epidemiology &amp; Laboratory Training Program, Abuja</li><li>NFELTP Bound Volume &amp; Stakeholder Reports.</li></ul>
Major output	·
Title 13	: Cluster Sampling Survey on Lead Poisoning Prevalence in 14 LGAs of Zamfara State
From	: May 2012
То	July 2012
Position held	Field Epidemiology Researcher
Name and Place of Institution	. Nigeria Field Epidemiology & Laboratory Training Program, Abuja
Major output	NFELTP Bound Volume, Stakeholder Reports & Full Publications
Title 14	: Suspected Measles Outbreak Investigation in Magazawa, Tsafe LGA
From	: March 2013
To Position held	<ul><li>: April 2013</li><li>: Field Epidemiology Researcher</li></ul>
Name and Place of Institution	: Nigeria Field Epidemiology & Laboratory Training Program, Abuja
Major output	NFELTP Bound Volume, Stakeholder Reports and Abstracts
Title 15	: Suspected Gastroenteritis Outbreak Investigation, Tsageru, Tsafe LGA
From	: March 2013
To	: April 2013
Position held	Field Epidemiology Researcher
Name and Place of Institution	Nigeria Field Epidemiology & Laboratory Training Program, Abuja
Major output	NFELTP Bound Volume, Stakeholder Reports and Abstracts
Title 16	<ul> <li>National Management Support Team Supervision Services on routine Immunisations &amp; IPDs (Measles, Yellow Fever &amp; Polio), and suspected outbreak responses (Measles, GE and VDPV2) in Kano, Sokoto, Zamfara and Kogi States, Nigeria.</li> </ul>
- France	
From Parities hald	. 2013 to Date
Position held	<ul><li>2013 to Date</li><li>National Senior Supervisor (Field Epidemiology Graduate, MST-Officer)</li></ul>
	. 2013 to Date

#### (H) RESEARCH ACHIEVEMENTS:

#### H1. Honours and Awards:

- (a) The Best Oral Presentation Award (in Basic Medical Science): 6<sup>th</sup> National Conference on Medical Sciences Universiti Sains Malaysia, Kubang-Krian, Kelantan, MALAYSIA. May, 2000.
- (b) <u>Best 10 Research Projects Award:</u> Research & Invention Exhibition 2001 (Pameran Hasil Penyelidikan), Universiti Putra Malaysia, Serdang, Selangor MALAYSIA. October, 2001.
- (c) <u>Silver Medal Award:</u> Invention and Research Exhibition 2002 (Pameran Reka Cipta & Penyelid), Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA. August, 2002.
- (d) <u>Bronze Medal Award</u>: Research Invention/Innovation Exhibition 2003 (Pameran Reka Cipta & Penyelidikan), Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA. August, 2003.
- (e) <u>Bronze Medal Award</u>, Invention & Research Exhibition 2005 (Pameran Reka Cipta & Penyelidikan), Universiti Putra Malaysia, Serdang, Selangor, MALAYSIA. March, 2005.
- (f) <u>International Travel Award</u>, The 1st ASLM International Conference on: Accurate Laboratory Diagnostics: A Pillar of Quality Healthcare, African Society for Laboratory Medicine (ASLM), Cape Town International Convention Centre in South Africa, 1st 7th December 2012.
- (g) **PhD Scholarship Award**, From Islamic Human Rights Commission, London, United Kigdom @ SBUMS, Iran.

#### **H2. Publications:**

## (a) <u>Between 1997 to date, I have a total of 42 publications</u>:

- **12** full papers (published in international peer-reviewed journals).
- **22** abstracts (**9** oral, **1** oral-poster & **12** poster presentations) published in abstract-proceedings of International Conferences in Belgium, Brazil, Ethiopia, Greece, Malaysia, South Africa, Tanzania, Thailand, UK and USA.
- 6 local-abstracts(oral presentations) published in abstract-books of International/National Conferences in Nigeria
- 2 full paper manuscripts being submitted to international peer-reviewed journals.

#### (b) Selected & Latest Publications (2000 to Date):

- 1. Tarafder, M.T.H., Ali, A.M., Saravanan, M., Weng, W.Y., Kumar, S., <u>Umar-Tsafe, N.</u>, and Krouse, K.A. Co-ordination chemistry and biological activity of two tridentate ONS and NNS schiff bases derived from S-benzyldithiocarbazate. *Transition Metal Chemistry*, **2000**, 25: 295-298 (Elsevier).
- 2. Ali, A.M., <u>Umar-Tsafe, N.</u>, Mohammed, S.M., Inayat-Hussein, S.H., Din, L.B. and A. B. Osman. Induction of apoptosis in leukaemic cells by goniothalamin. <u>J. Biochem Mol. Biol. and Biophy</u>s., **2001**, 5(3): 227-235 (Taylor & Francis Ltd., USA).
- 3. <u>Nasir Umar-Tsafe</u>, Leslie C. Lai, Laily Bin Din, Mohd Ilham Adenan, Rohana Mat Nor, Zaidah Zainal Ariffin, Mohamed Saifulaman Mohamed Said and Rozita Rosli. Preliminary studies on the Genotoxic Potential of Some Local Plant Extracts. <u>Proceedings of the 5th National Congress of Genetics</u>, **2003**, O-10: 33-35 (Kuala Lumpur, Malaysia).
- 4. <u>Umar-Tsafe, N.</u>, Mohamed Said, M. S., Rosli, R., Din L. B. and Lai, L. C. Genotoxicity of goniothalamin in CHO cell line. *Mutation Research*, **2004**, 562: 91-102 (Elsevier).
- Umar F. Yusuf, Sunny E. Iyuke, Rozita Rosli, Fakhru'l-Razi A., Nashiru Billa and <u>Nasir Umar-Tsafe</u>. In vitro inhibition of human malignant cell growth of crude water extract of cassava (Manihot esculenta Crantz) and commercial linamarin. <u>Songklanakarin J. Sci. Technol.</u>, **2005**, 28(Suppl. 1): 1-11 (Thailand).

## (b) Selected & Latest Publications (2000 to Date) continued:

- 5. Umar F. Yusuf, Sunny E. Iyuke, Rozita Rosli, Fakhru'l-Razi A., Nashiru Billa and <u>Nasir Umar-Tsafe</u>. In vitro inhibition of human malignant cell growth of crude water extract of cassava (Manihot esculenta Crantz) and commercial linamarin. <u>Songklanakarin J. Sci. Technol.</u>, **2005**, 28(Suppl. 1): 1-11 (Thailand).
- 6. Nor Aniza Muhammad, <u>Nasir Umar-Tsafe</u>, , Rohana Mat Nor, Haniza Harun, Junainah Abdulhamid, Asbi Bin Ali, Rozita Rosli and Leslie C. Lai. Induction of Micronucleus by Double Cheese Burger Extracts in the Erythrocytes of ICR Mice. <u>Proceedings of the 2nd Health Science Week</u>, **2006**, 2: P7, KUTPM (Shah Alam, Malaysia).
- 7. <u>Umar-Tsafe N</u>, Hisamuddin MNM, Rosli R, Mat-Nor R, Harun H, Abdulhamid J, Ali A and Lai, L. C. Antigenotoxicity of phyllantus niruri in CHO cell line. <u>Proceedings of the 14th InVitox Workshop</u>, **2006**, P4.24, p30-31 (Ostend, Belgium).
- 8. Mun-Hoe, E. C., Crouse, K. A., Tahir, M. I. M., Rosli, R., <u>Umar-Tsafe, N</u>. and Cowley, A. R. Synthesis and characterization of cobalt(II), nickel(II), copper(II), zinc(II) and cadmium(II) complexes of benzyl N-[1-(thiophen-3-yl)ethylidine] hydrazine carbodithionate and Benzyl N-[1-(thiophen-3-yl)ethylidene] hydrazine carbodithioate and the X-ray crystal structure of bis{benzyl..... <u>Polyhedron</u>, **2008**, 27: 1141-1149(Elsevier).
- 9. von Lindern, I.H., S. A. Haladu, <u>N. T. Umar-Tsafe</u>, J. Pringle, S. Tirima, C. Bartrem, et al. **(2011).** Lead Poisoning Epidemic and Cleanup at Artisanal Gold Mining Operations in Zamfara State, Nigeria". Abstract Article Accepted for the <u>Proceedings of Conference on Environmental Health 2011 Resetting our Priorities</u>. Salvador, Brazil, 6-9 February **2011.** Ref No. p329.
- 10. Dankoli, R., I. Jibrin, M. Dalhat, A. Nasir, <u>N. Tsafe</u> and P. Nguku. Extent of Lead Poisoning and Environmental Contamination in Three Local Government Areas of Zamfara State, Nigeria, 2010. *Proceedings of 5th AFENET Scientific Conference*, Daressalam, Tanzania. Poster 111, p144, 11-16 Dec, **2011**.
- 11. Roy, J., A. Neri, C. Dooyema, M.J. Brown, <u>N. T. Umar-Tsafe</u>, R. Philip, J. Jarret, and K. Caldwell. The Blood Lead Level. How can field laboratories respond to mass lead exposure? International Medicines Sans Frontiers (*MSF*) Conference, London, UK. **2011**.
- 12. <u>Umar-Tsafe, N. T.</u>, Ajumobi, O. O., Nguku, P., Sabitu, K., Shehu, M. S. and Ahmed, S. A. Bagega 2010 FELTP Report and Latest Updates. *Proceedings of the International Conference on Heavy Metal Poisoning, with Special Focus on the Zamfara Lead Poisoning Crisis,* Chida International Hotel, Abuja, Nigeria. Session 4, Module C. May 9-10, **2012.**
- 13. Behbood, B., Y. Lo, T. Jefferies, J. Durant, A. Neri, N. Umar-Tsafe, A. Medina-Marino, L. de Ravello, D. Thoroughman, L. Davis, R. Dankoli, A. Dama, M. Samson, L. Ibrahim, O. Okechukwu, M.J. Brown. Artisanal Gold Ore Processing and Childhood Lead Poisoning Nigeria, November 2010. *Proceedings of the 61st Annual Epidemic Intelligence Service (EIS) Conference*, Atlanta, USA. Session G: Global Health, 2:30, p76, April 16–20, **2012.**
- 14. Lo, Y.-C., C.A. Dooyema, A. Neri, J. Durant, T. Jefferies, A. Medina-Marino, L. deRavello, D. Thoroughman, L. Davis, R.S. Dankoli, M.Y. Samson, L.M. Ibrahim, O. Okechukwu, N.T. Umar-Tsafe, A.H. Dama, & M.J.Brown. Childhood Lead Poisoning Associated with Gold Ore Processing: a Village-Level Investigation -Zamfara State, Nigeria, October–November 2010. J.Environ Health Perspect 120(10):1450-1455, **2012.**
- 15. <u>Umar-Tsafe, N.T.</u>, Thomas Onazi, Asma'u Maifada, Shirematee Baboolal, Prisca Ajiboye, Chukes Egbom, Isiyaku Ahmadu, Kamal Ezekiel, Saad Ahmed, Nasir Sani-Gwarzo, Patrick Nguku. Implementing Data Generation Systems for Customer Service Survey and Other Quality Indicators at the National Tuberculosis and Leprosy Reference Laboratory, Zaria-Nigeria. Oral: Proceedings of the 1st African Society for Laboratory Medicine Conf.@CapeTown, South Africa, 1st—7th December **2012**. Abstract-PG11:30, p169.
- 16. <u>Umar-Tsafe, N.T.</u>, M. Panwal, Patrick Nguku, Ndadilnasiya Waziri, Mansur Gidado, Chukes Egbom, Nicholas Ezati, Augustine Kogoro, Saad Ahmed, Mohammed Shehu. Development of an Effective Internal Quality Control System at the National Tuberculosis and Leprosy Reference (NTBLR) Laboratory, Zaria, Nigeria. A Poster Presentation. Proceedings of the 1st African Society for Laboratory Medicine (ASLM) Conference, Cape Town, South Africa, 1st 7th December **2012**. Abstract-Poster 165.
- 17. <u>Umar-Tsafe, N.T.</u>, M. Panwal, P. Nguku, N. Waziri, M. Gidado, C. Egbom, N. Ezati, A. Kogoro, S. Ahmed, M. Shehu. Development of an Effective Internal Quality Control System at the National Tuberculosis and Leprosy Reference (NTBLR) Laboratory, Zaria, Nigeria. A Poster Presentation. Proceedings of the 1st African Society for Laboratory Medicine Conference, Cape Town, South Africa, 1st 7th Dec. **2012**. Abstract-Poster 165.
- 18. Kabir I Getso and <u>Nasir Umar-Tsafe</u>. Lead Poisoning Crisis in Zamfara State: An Overview (Oral Presentation). Report of Nigeria FELTP Scientific Symposium. Chida Hotel, Abuja, 27<sup>th</sup> 28<sup>th</sup> February **2013**.

## (b) Selected publications (2000 to Date) continued:

- 19. Neri, A., J. Roy, C. Dooyema, <u>N.T. Umar-Tsafe</u>, R. Philips, J. Jarrett, K. Caldwell, M.J. Brown. Analysis of a Novel Field Dilution Method for Testing Samples that Exceed the Analytic Range of Point-of-Care Blood Lead Analyzers. *Int. J. Env Health Res.*, p1-11, **2013**. DOI: 10.1080/09603123.2013.857390 (Taylor & Francis).
- 20. <u>Nasir T. Umar-Tsafe</u>, AT Olayinka, SA Ahmed, PM Nguku, MB Abdullahi, K Sabitu, Al Mamman, MS Shehu, H Yalwa, N Sani-Gwarzo. An Epidemiologic Review on the Lead Poisoning Disaster in Zamfara, Nigeria, 2010-2013. Proceedings AFENET Conference, 17-22 November **2013**, Addis Ababa, Ethiopia. OPA/p104.
- 21. M Bashir, <u>N Umar-Tsafe</u>, K Getso, IM Kaita, A Nasidi, N Sani-Gwarzo, P Nguku, L Davis and MJ Brown. Assessment of Blood Lead Levels Among Children Aged ≤5 Years Zamfara State, Nigeria, June-July 2012. MMWR, **2014**, 63(15): 325-327.
- 22. Ajumobi, O.O., A. Tsofo, M. Yango, M.K. Awoh, I.N. Anugbogu, A, Mohammed, N. Umar-Tsafe, M. Suleiman, M. Abdullahi, L. Davis, S. Idris, G. Poggensee, P. Nguku, S. Gitta, P. Nsubuga. High Concentration of Blood Lead Levels Among Young Children in Bagega Community, Zamfara-Nigeria and the Potential Risk Factor. Pan Afr Med J. **2014**; 18(Supp 1):1-4.
- 23. <u>Umar-Tsafe, N.T.</u>, I.I. Nda, C.O. Ega, *et al.* The Outbreak of Lead Poisoning in Unguwar Kawo and Unguwar Magiro, Rafi LGA, Niger State, Nigeria, 2015. Oral Presentation Paper. Proceedings of the 3<sup>rd</sup> National Conference on Environmental Health, PN60:78, **2015**, Ibadan, Nigeria.
- 24. Kaufman, J. A., M.J. Brown, <u>N.T. Umar-Tsafe</u>, *et al.* Prevalence and Risk Factors of Elevated Blood Lead in Children in Gold Ore Processing Communities, Zamfara, Nigeria, 2012. Journal of Health & Pollution Vol. 6, No. 11: 2-8, **2016.**
- 25. <u>Umar-Tsafe N, T Olayinka A, Ahmed S, S Shehu M, Poggensi G, Habib A, Sabitu K, M Nguku P, Jafiya A, Kachalla M, Bintu Gubio A, Inna Muhammad H, Aliyu S, Idris B, Shehu B, Isah A, Ahmad H, Madaro Y, Usman R, Halilu I, Yalwa H, Kolo H, Waziri E, Gidado S, Dalhat M, J Mwangombe B, Olabiyo R, Oloruntuyi G, Zakariyya Yauri A, A Shinkafi B, Sani-Gwarzo N, Iliyasu Z, Indo Mamman A, S Isah H, Akuyam S, Anetor JI and Jean Brown M (2019). The Lead Poisoning Control in Zamfara and Niger States, Nigeria: A 2010 2018 Review. Front. Pharmacol. Conference Abstract: International Conference on Drug Discovery and Translational Medicine 2018 (ICDDTM '18) "Seizing Opportunities and Addressing Challenges of Precision Medicine". doi: 10.3389/conf.fphar.2019.63.00028.</u>
- 26. Nazefah Abdul Hamid, <u>Nasir Umar-Tsafe</u>, Nurmawati Syakroni, Habsah Mohamad and Rozita Rosli. **(2021).** *Gracilaria changii* induces cytotoxicity and apoptosis but not genotoxicity *in vitro*. Full manuscript for resubmissiion to *In Vitro Toxicology* (Elsevier).
- 27. <u>Umar-Tsafe, N. T.</u>, Rosli, R., Mohamad, H., Lajis, N. H. and Lai, L. C. **(2021).** Elucidation of basic mechanisms whereby flavokawin B inhibits the growth of tumour and transformed-normal cell lines. Full manuscript for submission to <u>Breast Cancer Research</u> (BioMedCentral).

## (H) REFERENCES:

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