

SHEHU IDRIS, PhD

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Full Bio: **Dr. Shehu Idris:** A Lecturer at the Department of Microbiology, Kaduna State University. I received my PhD in Environmental Microbiology from Universiti Sains Malaysia (USM) in 2023. My research interest revolves around microbes important to environmental quality and public health. By working at the interface of environmental bioengineering and Applied Microbiology, my research focus aims to advance knowledge on microbial communities relevant to biotransformation of contaminants, bioremediation, resource recovery, production of bio-based plastics, biodegradation of synthetic plastic wastes, biopesticides, biofertilizers wastewater treatment and antimicrobial resistance markers. I am a member to many professional bodies including Nigeria Society for Microbiology and American Society for Microbiology.

A. PERSONAL DETAILS

Surname:	Idris
First Name:	Shehu
Gender:	Male
Date of Birth:	12 th January 1981
Place of Birth:	Ikara, Kaduna-Nigeria
State of Origin:	Kaduna
Local Govt Area:	Ikara
Nationality:	Nigerian
Marital Status:	Married
International Languages:	[English -Read/write with high proficiency], [Hausa -Native proficiency], [Arabic-read/write with basic competence] [Bahasa Malayu- Elementary proficiency]
Permanent Home Address:	No. 9 Road BB Ikara Old G.R.A. Layout
Position in the University	Lecturer I

B. EDUCATIONAL INSTITUTIONS ATTENDED

1	Universiti Sains Malaysia	2018- 2023
2.	Universiti Teknologi, Malaysia	2013-2015
3.	Bayero University, Kano, Nigeria	2000-2001
4.	Bayero University, Kano, Nigeria	2001-2006
5.	Government Secondary School, Ikara	1993-1999
6.	Magaji Abubakar Primary school Ikara	1987-1993

C. EDUCATIONAL QUALIFICATION OBTAINED

1.	PhD. Environmental Microbiology	2023
2.	MSc. Biotechnology [Honors: Passed with Distinction]	2015
3.	BSc. Microbiology [Second class upper (2.1)]	2006
5.	WAEC S.S.C.E. Result	1999
6.	Primary school leaving certificate	1993

D. ADDITIONAL QUALIFICATION OBTAINED

	QUALIFICATION	DATE
1.	Proficiency Certificate in Management	2008
2.	Diploma in Computer Studies	2007

D. **WORKING EXPERIENCE**

1. Kaduna State University, Kaduna Nigeria
 - a. **Lecturer I, Department of Microbiology** 2023 – Date
 - b. **Lecturer II, Department of Microbiology** 2018 – 2023
 - c. **Assistant Lecturer, Department of Microbiology** 2015 – 2018
 - d. **Graduate Assistant, Department of Microbiology** 2011 – 2015
2. State Ministry of Environment, Cross River State.
 - a. **National Youth Service Corps Scheme (Scientific officer)** 2007-2008

E. **TEACHING EXPERIENCE (Courses Taught)**

MCB 102 Introductory Microbiology, MCB 404 Industrial Microbiology, MCB 704 Fermentation Technology, MCB 415 Microbial Biotechnology, MCB 311 Microbial Genetics and Molecular Biology MCB 203 Introductory Microscopy, MCB 317 Biodeterioration, MCB 715 Industrial Microbiology, MCB 717 Food Microbiology, MCB 406 Environmental Microbiology, MCB 208 General Microbiology II, MCB831 Advanced Biodeterioration, MCB 827 Advanced Aeromicrobiology, MCB829 Advanced Soil Microbiology

F. **PROJECT SUPERVISION**

Successfully supervised over forty undergraduate research projects and currently supervising a number of graduate researches at masters level.

G. **ROUTINE ADMINISTRATIVE DUTIES/COMMUNITY SERVICE:**

1. Director, University Quality Assurance Unit 2023-Date
2. Asst. Faculty Examination Officer 2023- Date
3. Assistant Departmental Examination Officer 2015 to 2018
4. Students' Level Coordinator (**400L Undergraduate**) 2015 to 2018
5. Departmental Examination Officer 2011-2012
6. Departmental Registration Officer 2011-2012

Membership of Committees in the University

Member, University Ceremonial and Honor Committee
Member, University Strategy, Implementation Committee
Member, College Conference Committee
Member, College Staff Disciplinary Committee
Chairperson/Memeber, Conference Technical Committee, NSM-KASU2024 & FNMC-KASU-2024

H. **RESEARCH PUBLICATIONS**

1.	RS Ibrahim, J Maiangwa, S Idris , J Musa (2024), Production of cellulase enzymes by Bacillus sp and Pseudomonas sp isolated from anthill soil, <i>Science World Journal</i> , Vol.19(1):253 -258	2024
2.	Zainab Idris Imam, Fatima M Musa, Shehu Idris (2023), Screening of Fungal Isolates for Biodegradation Potentials of Low-Density Polyethylene from Selected Dumpsites, <i>Sahel Journal of Life Sciences FUDMA</i> , Vol. 1(1): 263 - 270	2023
3.	Kureh, D., Aliyu, A. M., Maiangwa, J., Idris, S. , and Philemon, D. (2023), BIODEGRADATION Potential of Some Bacteria Isolated From Abattoir Effluents Within Kaduna Metropolis, <i>International Journal of Applied Biological Research</i> . Vol. 14(1): 97 - 110	2023
4.	Shehu Idris , Rashidah Abdul Rahim; Amirul Al-Ashraf Abdullah (2022), Bioprospecting and	2022

	Molecular Identification of Used Transformer Oil-degrading Bacteria for Bioplastic Production. <i>Microorganisms</i> , 10(3): p583	
5.	Shehu Idris ; Abdul Rahim; Ahmad Nazri Saidin and Amirul Al-Ashraf Abdullah (2022); Bioconversion of Used Transformer Oil into Polyhydroxyalkanoates by Acinetobacter sp. Strain AAAID-1.5, <i>Polymers</i> , 15(1): p97	2022
6.	M. Umar, J. Kambai, I. B. Mohammed, J. O. Oko, A. A. Obafemi, Ibrahim Murtala, K. G. Ajiya, A. A. Yaya, I. M. Abdulkarim, D. E. Akafyi1, S. Idris , U. T. Tashi and S. Ahmed (2019), Bacteriological Quality Assessment and Antibiogram Profile of Bacteria Associated with Sachet Drinking Water Sold at Zaria, Northern Nigeria., <i>International Journal of Pathogen Research</i> . 2(2):1-13	2019
7.	A. A. Musa, A. A. Salf Asheyah, I. Shehu , C. S. Chong, S. A. Nafli'u, Y. Abdulmumin Molecular characterization of bacteria isolated from the skin of cantaloupe fruit using 16S ribosomal RNA gene sequence analysis, <i>Malaysian Journal of Microscopy</i> Vol. 4 (1) pp. 65-79	2018
8.	Mienda, B. S., Salihu, R., Adamu, A., & Idris, S. (2018). Genome-scale metabolic models as platforms for identification of novel genes as antimicrobial drug targets. <i>Future Microbiology</i> , Vol 13(4): 455-467	2018
9.	Balarabe musa Maryam, Mohammed Sani Sambo Datsugwai, Idris, Shehu (2017), The Role of Biotechnology in Food Production and Processing, <i>Industrial Engineering</i> . 1(1):24-35	2017
10.	Idris, S. ; Ishaq, M.M., Umar, M. (2017), Antibacterial Activity of Black Cumin (<i>Nigella sativa</i>) Seed Extracts Against Selected Clinical Bacterial Isolates. <i>Journal of Foods, Natural and Life Sciences</i> Vol. 2 (1) pp: 79-87	2017
11.	Kamal Usman; Idris, Shehu ; Abdurrahman Mahmoud, Dogara; Zainab Ladidi Idris In-Silico Characterization and Mutagenesis of β -Glucosidase from <i>Anoxybacillus</i> sp. SK3-4, <i>American Journal of Bioscience and Bioengineering</i> . Vol. 5 (1) pp. 1-7	2017
12.	Umar, M., Aliko, A. A., Idris, S. , Daniel, O.I., Tafinta, I.Y., Salisu, A., Abdulkarim, I.M., Jobbi, D.Y. (2016) Seroprevalence of Hepatitis B And Listeriosis Co-Infection Among Patients Attending Sickbay Hospital, Ahmadu Bello University, Zaria, Kaduna, Nigeria. <i>Asian Journal of Medicine and Health</i> 1(1): 1-12	2016
13.	Bashir Sajo Mienda, Mohd Shahir Shamsir, Idris, Shehu , Abdulkarim Ali Deba, Ibrahim A Galadima (2014) In-Silico Metabolic Engineering Interventions of <i>Escherichia coli</i> for Enhanced Ethanol Production, Based on Gene Knockout Simulation <i>The IIOAB Journal</i> Vol. 5; Issue 2; pp: 16–23	2014
14.	Yabaya, A. and Idris, S. (2009), Invitro activity of some selected expired and non-expired antibiotics against selected bacterial isolates. <i>Biotrophic Research International Journal</i> , 1(1): 36-39.	2009
CONFERENCE PAPERS		
1.	Musa Ibn Abbas ^{1,2} , Idris Shehu ⁴ , Haruna Yahaya Ismail ¹ and Amirul Al-Ashraf Abdullah ^{2,3} Biosynthesis of Bacterial Poly(3-Hydroxybutyrate-Co-4-Hydroxybutyrate) Bioplastics through Microbial Fermentation Using Locally Isolated <i>Cupriavidus malaysiensis</i> USMAA1020. NSM, 46 th Annual Scientific Conference and General Meeting, Oct. 29 th -31 st KASU 2024	2024
2.	¹ Maccido Laila Ibrahim, ² Abimbola A. Orukotan, ³ Aliyu Adamu, and ⁴ Idris, Shehu Assessment of Bioremediation Potential of Some Bacteria from Kerosene Contaminated Soil NSM, 46 th Annual Scientific Conference and General Meeting, Oct. 29 th -31 st KASU 2024	2024
3.	¹ Aisha Aminu Muhammad and ^{2*} Idris Shehu Isolation and Identification of Aflatoxigenic Fungi in Spices Sold in Selected Markets in Kaduna Metropolis, NSM, 46 th Annual Scientific Conference and General Meeting, Dec. Oct. 29 th -31 st KASU 2024	2024
4.	Idris, Shehu ; Rashidah Binti Abdulrahim; Amirul Al-Ashraf Abdullah (2021) Molecular Identification of Waste Transformer Oil-degrading Bacteria for Bioplastic Production. 4 th International Conference on Molecular Biology & Biotechnology. Jun. 1st-3rd th (Virtual)	2021
5	Idris, Shehu. ; Ja'afaru, Abdullahi Isah; Musa Ahmed Abubakar; Umar Shittu (2018), Molecular Characterization of Amylase Producing Psychotropic Bacteria Isolated from Arctic Environment. NSM, 41 st Annual Scientific Conference and General Meeting sept. 19 th -23 Umaru Musa Yar'adua University, Katsina.	2018

6.	Idris, Shehu; Zahara, Ibrahim; Muhammad, Ahmad and Aminu Hamza Aminu (2017) Molecular Characterization of <i>Pseudomonas</i> Sp. Shz7.1: A Potential Lipase Producing Psychrotrophic Bacteria. NSM, 39 th Annual Scientific Conference and General Meeting Dec. 4 th -8 th ATBU, Bauchi.	2017
7.	Idris, Shehu, Nasir Tukur Dabo and Orukotan A. A. (2016) Mycotoxigenic Fungi and Aflatoxin Contamination of Animal Feeds sold in Kano Metropolis, North-western Nigeria. NSM, 39 th Annual Scientific Conference and General Meeting Sept. 19 th -23 University of Nigeria Nsuka.	2016
8.	Idris, S., Aisha A., and Orukotan A. A. (2016), Antibacterial Activity of <i>Zizyphus spina-christi</i> Leaves and Fruit Extracts on <i>Staphylococcus aureus</i> Isolated from Wound Infections. NSM, 39 th Annual Scientific Conference and General Meeting sept. 19 th -23 University of Nigeria Nsuka.	2016
9.	Idris, Shehu, Zahara, Ibrahim and Muhammad, Ahmad (2016), Molecular Characterization OF <i>Pseudomonas</i> sp SHZ3.1: A Potential Protease Producing Psychrotrophic Bacteria NSM, 39 th Annual Scientific Conference and General Meeting September. 19 th -23 University of Nigeria Nsuka.	2016
10.	Idris Abdulrahman and Idris, Shehu (2015), Hydrogen production potential of photosynthetic bacteria from marine environment 1 st Annual International Conference. Faculty of science North-west University, Kano-Nigeria.	2015
11.	Idris, Shehu, Zahara Ibrahim; Abdurrahman, Idris and Orukotan, A. A. (2015) Bioprospecting for Culturable Psychrotrophic Bacteria with Extracellular Hydrolytic Enzymes Activity From Arctic Lake Sediments. NSM, 38 th Annual Scientific Conference and General Meeting. Sept. 19 th -23 University of Lagos-Nigeria.	2015

REFEREES:

1. Prof. Muhammad Yusha'u
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