PROF. MADYA DR. NOR FADHILAH BINTI KAMARUZZAMAN (00686A)
PENSYARAH UNIVERSITI (TETAP)
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A. PERSONAL DETAILS

UMK JOIN DATE	01-Nov-2011
DATE OF APPOINTMENT FOR CURRENT POSITION	07-Mar-2017
DATE OF CONFIRMATION FOR CURRENT POSITION	01-Jul-2019
EDUCATION(S)	• **()** INTERNATIONAL ENGLISH LANGUAGE TESTING SYSTEM • **(2016) ROYAL VETERINARARY COLLEGE UNIVERSITY OF LONDON** IJAZAH DOKTOR FALSAFAH VETERINARY BIOMEDICAL NANO TECHNOLOGY • **(2011) UNIVERSITI SAINS MALAYSIA** IJAZAH SARJANA SAINS PERUBATAN PERUBATAN MOLEKUL • **(2007) UNIVERSITI KEBANGSAAN MALAYSIA** IJAZAH SARJANA MUDA BIOKIMIA • **(2002) SEK. MEN. DATO' MAHMUD PADUKA RAJA (1), TANAH MERAH** SPM
GROUP OF EXPERTISE	• Communicable Diseases Nursing (Including HIV/AIDS, COVID-19 and other Infectious Diseases) (F0704060118)
AWARD(S)	• Award Name: **Anugerah Perkhidmatan Cemerlang (APC) 2019 (2020)** Awarded by: Universiti Malaysia Kelantan
WORKING EXPERIENCE(S)	• Research Assistant | Universiti Sains Malaysia 01-Dec-2007 - 01-Aug-2008
PROFESSIONAL MEMBERSHIP(S)	

B. TEACHING-LEARNING ACTIVITIES

COURSES TAUGHT	• DVT10403 - VETERINARY BIOCHEMISTRY • DVT1053 - ANIMAL GENETICS • DVT10602 - VETERINARY EMBRIOLOGY • DVT1073 - Animal Physiology II • DVT10803 - VETERINARY PHYSIOLOGY II • DVT1094 - VETERINARY BIOCHEMISTRY • DVT11103 - ANIMAL GENETICS AND BREEDING • DVT11202 - INDUSTRIAL TRAINING I • DVT21303 - BASIC MOLECULAR BIOLOGY • DVT21803 - VETERINARY PHARMACOLOGY AND TOXICOLOGY • DVT22202 - INDUSTRIAL TRAINING II • DVT3312 - PRACTICAL TRAINING III • DVT33203 - VETERINARY ENTREPRENEURSHIP • DVT33502 - INDUSTRIAL TRAINING III • DVT5493 - VETERINARY ENTREPRENEURSHIP

- DVT55204 - RESEARCH PROJECT

C. RESEARCH AND DEVELOPMENT

JOURNAL(S)

1. Ping A.K.R., Saeed S.I., Mohammed Dauda Goni, Norfadhilah Kamaruzzaman. (2026-03). Knowledge, Attitudes, and Practices of Pet Owners Regarding Pet Insurance in Selangor, Malaysia. Pets , Vol. 3(1) . https://doi.org/10.3390/pets3010010
2. Chinedu Amaeze Frank, Mohammed Dauda Goni, Norfadhilah Kamaruzzaman, Hafeez A. Afolabi, Mohammed S. Gaddafi, Aliyu Yakubu, Shamsaldeen Ibrahim Saeed. (2025-12). Occurrence, Antimicrobial Resistance Profiles, and Multidrug Resistance Characterization of Campylobacter spp. Isolated from Domestic Pets in Kelantan, Malaysia. Zoonotic Diseases , Vol. 5(4) . https://doi.org/10.3390/zoonoticdis5040033
3. Frank, C.A., Mohammed Dauda Goni, Norfadhilah Kamaruzzaman, Afolabi, H.A., Gaddafi, M.S., Aliyu Yakubu, Saeed, S.I.. (2025-09). Prevalence, Antimicrobial Resistance Profiles, and Risk Factors Analysis of Campylobacter spp. from Dogs in Kelantan, Malaysia. Bacteria , Vol. 4(3) . https://doi.org/10.3390/bacteria4030041
4. Lawal, Habiba, Saeed, Shamsaldeen Ibrahim, Norfadhilah Kamaruzzaman, Suhaili, Zarizal, Sani, Gaddafi Mohammed, Lemlem, Mulu, Yang, Qiya, Erkihun Aklilu. (2025-06). Molecular Detection of Colistin-Resistant E. coli in Village Chickens from Kelantan, Malaysia. Bacteria , Vol. 4(2) . https://doi.org/10.3390/bacteria4020019
5. ChineduFrank Amaeze, Mohammed Dauda Goni, Norfadhilah Kamaruzzaman, Gaddafi Mohammed Sani, Aliyu Yakubu. (2025). Exploring Campylobacter jejuni: Elucidating pathogenic mechanisms, virulence factors, antimicrobial resistance in diverse animal species. , Vol. 23(2) . https://doi.org/10.12982/VIS.2025.054
6. Saeed S.I., Kamaruzzaman, NF, Gahamanyi N., Nguyen T.T.H., Hossain D., Kahwa I.. (2024-12). Confronting the complexities of antimicrobial management for Staphyloccous aureus causing bovine mastitis: an innovative paradigm. Irish Veterinary Journal , Vol. 77(1) . https://doi.org/10.1186/s13620-024-00264-1
7. Saeed, SI, Kamaruzzaman, NF, Gahamanyi, N, Nguyen, TTH, Hossain, D, Kahwa, I. (2024-12). Correction to: Confronting the complexities of antimicrobial management for Staphylococcus aureus causing bovine mastitis: an innovative paradigm (Irish Veterinary Journal, (2024), 77, 1, (4), 10.1186/s13620-024-00264-1). Irish Veterinary Journal , Vol. 77(1) . https://doi.org/10.1186/s13620-024-00266-z
8. Lemlem, Mulu, Aklilu Erkihun, Mohamed Maizan, Kamaruzzaman Nor Fadhilah, Devan, Susmita Seenu, Lawal, Habiba, Kanamma, Abubakar Abdulkarim. (2024-11-26). Prevalence and molecular characterization of ESBL-producing Escherichia coli isolated from broiler chicken and their respective farms environment in Malaysia. BMC microbiology . https://doi.org/10.1186/s12866-024-03653-2
9. Ajose, Daniel Jesuwenu, Adekanmbi, Abimbola Olumide, Norfadhilah Kamaruzzaman, Ateba, Collins Njie, Saeed, Shamsaldeen Ibrahim. (2024-11-02). Combating antibiotic resistance in a one health context: a plethora of frontiers. One health Outlook , Vol. 6(1) . https://doi.org/10.1186/s42522-024-00115-7
10. Lawal, H, Aklilu, E., Kamaruzzaman, N., Suhaili, Z., Sani, G. M., Lemlem, M.. (2024). Livestock and environment as potential sources and reservoirs for multi-drug resistant Escherichia coli in Malaysia: A Systematic Review. Veterinary Integrative Sciences , Vol. 22(2) , pp. 387 - 403. https://doi.org/10.12982/VIS.2024.028
11. Lemlem M., Aklilu, E., Mohamed, M., Kamaruzzaman, N., Zakaria Z., Harun A., Devan S.S.. (2023). Molecular detection and antimicrobial resistance profiles of Extended-Spectrum Beta-Lactamase (ESBL) producing Escherichia coli in broiler chicken farms in Malaysia. PLoS ONE , Vol. 18(5) . https://doi.org/10.1371/journal.pone.0285743
12. Devan S.S., Aklilu, E., Zakaria Z., Hamdan R.H., Lemlem M., Kamaruzzaman, N., Kamaruzaman I.N.A., Reduan, M.F.H. (2023). Emergence of MCR -1, -3, -6, -8 And -9) in Escherichia Coli Isolated from Live Chickens, Raw Chicken Meat and Vegetables from Kelantan, Malaysia. Journal of Microbiology, Biotechnology and Food Sciences , Vol. 12(6) . https://doi.org/10.55251/jmbfs.9829
13. Saeed S.I., Vivian L., Zalati C.W.S.C.W., Sani N.I.M., Aklilu, E., Mohamed, M., Noor A.M., Muthoosamy K., Kamaruzzaman, N.. (2023). Antimicrobial activities of graphene oxide against biofilm and intracellular Staphylococcus aureus isolated from bovine mastitis. BMC Veterinary Research , Vol. 19(1) . https://doi.org/10.1186/s12917-022-03560-6
14. Mulu Lemlem, Erkihun Aklilu, Maizan Mohamed, Nor Fadhilah Kamaruzzaman, Zunita Zakaria, Azian Harun, Susmita Seenu Devan, Intan Noor Aina Kamaruzaman, Mohd Farhan Hanif Reduan, Muthupandian Saravanan. (2023). Phenotypic and genotypic characterization of colistin¿resistant Escherichia Coli with mcr¿4, mcr¿5, mcr¿6, and mcr¿9 genes from broiler chicken and farm environment. BMC Microbiology , Vol. 23(1) , pp. 392. https://doi.org/10.1186/s12866-023-03118-y
15. Saeed, Shamsaldeen Ibrahim, Mergani, AhmedElmontaser, Aklilu, E., Kamaruzzaman, NF. (2022-04). Antimicrobial Peptides: Bringing Solution to the Rising Threats of Antimicrobial Resistance in Livestock. Frontiers in Veterinary Science , Vol. 9 . https://doi.org/10.3389/fvets.2022.851052
16. Shamsaldeen Ibrahim Saeed, Khairun Anisa Mat Yazid, Hidayatul Athirah Hashimy, Siti Khadijah Dzulkifli, Fatihah Nordin, Nik Azmi Nik Him, Mohd Fikry Fahmi bin Omar, Erkihun Aklilu, Maizan Mohamed, Che Wan Salma Zalati, Nor Fadhilah Kamaruzzaman. (2022). Prevalence, Antimicrobial Resistance, and Characterization of Staphylococcus aureus Isolated from Subclinical Bovine Mastitis in East Coast Malaysia. Animals , Vol. 12(13) . https://doi.org/10.3390/ani12131680
17. Shamsaldeen Ibrahim Saeed, Erkihun Aklilu, Khalid M. Mohammedsalih, Adewole A. Adekola, Ahmed Elmontaser Mergani, Maizan Mohamed, Nor Fadhilah Kamaruzzaman. (2021-10). Antibacterial Activity of Ikarugamycin against Intracellular Staphylococcus aureus in Bovine Mammary Epithelial Cells In Vitro Infection Model. Biology , Vol. 10(10) , pp. 1-9. https://doi.org/10.3390/biology10100958
18. Ibrahim, S, Hoong, LW, Siong, YL, Mustapha, Z, Zalati, CWSCW, Aklilu, E., Mohamed, M., Kamaruzzaman, NF. (2021-05). Prevalence of Antimicrobial Resistance (AMR) Salmonella spp. and Escherichia coli Isolated from Broilers in the East Coast of Peninsular Malaysia. ANTIBIOTICS-BASEL , Vol. 10(5) . https://doi.org/10.3390/antibiotics10050579
19. Nasir, NSM, Chan, YY, Harun, A, Husin, A, Kamaruzzaman, NF, Wada, Y, Abdul-Rahman, Z. (2021). Linezolid-Resistant Enterococcus casseliflavus and Enterococcus gallinarum isolated from poultry farms in Kelantan, Malaysia. MALAYSIAN JOURNAL OF MICROBIOLOGY , Vol. 17 (4) , pp. 1 - 8. https://doi.org/10.21161/mjm.211095
20. Aklilu E, Harun A., Singh K.K.B., Ibrahim S., Kamaruzzaman, N.. (2021). Phylogenetically Diverse Escherichia coli Strains from Chicken Coharbor Multiple Carbapenemase-Encoding Genes (blaNDM-blaOXA- bla IMP). BioMed Research International , Vol. 2021 . https://doi.org/10.1155/2021/5596502

	21. Shamsaldeen Ibrahim Saeed, Ruhil Hayati Hamdan, Tan Li Peng, Maria de Fátima Pina, Alexandru Chivu, Daniel Jesuwenu Ajose, Norfadhilah Kamaruzzaman. (2024-12-08). Carbon and polymer-based nanoparticles: a prospective antibiotic substitute in the livestock industry. . https://doi.org/10.1007/s44351-024-00008-0
PROCEEDING(S)	
BOOK(S)	1. Nik Maheran Nik Muhammad, Roselina Ahmad Saufi, Hanisa Hassan, Seri Intan Mokhtar, Mohamad Faiz Mohd Amin, Shardy Abdullah, Burhan Che Daud, Ng Siew Foen, Nooraini Yusoff, An'amt Mohamed Noor, Tan Tse Guan, Khairiyah Mat, Derweanna Bah Simpong, Muhammad Azwadi Sulaiman, Siti Afiqah Zainuddin, Ruhil Hayati Hamdan, Noorzamzarina Sulaiman, Ramly Hasan, Liyana Ahmad Afip, Dzulkifli Mukhtar, Noorshella Che Nawi, Nor Fadhilah Kamaruzzaman, Noor Janatun Naim Jemali, Mohammad Rusdi Mohd Nasir, Yohan Kurniawan, Mohd Zaimmudin Mohd Zain, Zulhisyam Abdul Kari, Suchi Hassan, Mohd Hazim Mohamad Amini, Nurul Izrin Md Saleh. (2024-03-04). Peraturan Akademik Pengajian Siswazah Secara Penyelidikan Edisi Kelima. Perpustakaan Negara Malaysia. 2. Mohd Safwan Ghazali, Dzulkifli Mukhtar, Mohd Ikhwan Aziz, Hana Yazmeen Hapiz, Ahmad Syakir Junoh @ Ismail, Suchi Hassan, Norfadhilah Kamaruzzaman, Izati Nabila Marzuki, Nur 'Izzati Mohd Amin, Mohd Mahmud, Nor Shahirul Umirah Idris, Sitti Fatimah Mhd Ramle, Bazilah Raihan Mat Shawal, Khairul Nizar Syazwan Wan Salihin Wong, Abdul `azim Ab Razak, Mohammed Farhan Bin Md Yusof, Zulfatihas Mohd Zin, Suriani Zakaria, Izzah Farhah Salehhuddin, Noor Maziana Ab Manaf, Nurfarahin Zamri, Nik Emi Rosyaida Raja Nik Lah. (2023). Ikon Usahawan Pelajar Edisi Ke 2 Semester 2022/2023. PENERBITAN KORPORAT UMK. 3. Anis Amira Ab Rahman, Mohammad Ismail, Nor Hazwani Munirah Lateh, Mohd Asyraf Zulkffli, Fadhilahanim Aryani Abdullah, Nor Shahirul Umirah Idris, Norfadhilah Kamaruzzaman, Mohd Faez Hafizie Mohd Nizam, Noor Salwa Mohd Razali. (2022). Ministry of Higher Education Entrepreneurial Award 2021 :Outstanding Graduate Enterprise Award Category C. UMK Entrepreneurship Institute (UMKEI). 4. Anis Amira Ab Rahman, Mohd Safwan Ghazali, Md Zaki Muhamad Hasan, Fadhilahanim Aryani Abdullah, Nor Fadhilah Kamaruzzaman, Izati Nabila Marzuki, Nur 'Izzati Mohd Amin, Mohd Mahmud, Nor Shahirul Umirah Idris, Sitti Fatimah Mhd Ramle, Wan Yusoff Wan Shaharuddin, Alifah Adnan, Zulfatihas Mohd Zin, Suriani Zakaria, Muhammad Ikmal Afif Mazlan. (2021-10). Buku Ikon Usahawan Pelajar. Pusat Pembangunan dan Pendidikan Keusahawanan (CEED), UMKEI.
CHAPTER(S)	1. Nor Fadhilah Kamaruzzaman, Tan Li Peng, Ruhil Hayati Hamdan. (2020). Biofilms-Associated Infections Continuous Challenges in Human and Animal Health. In Microbial Biofilms: Properties and Applications in the Environment, Agriculture & Medicine (pp. 373-394). CRC Press, Taylor & Francis Group.
OTHER(S)	1. Nik Maheran Nik Muhammad, Mohd Rosli Mohamad, An'amt Mohamed Noor, Tan Tse Guan, Sarizam Mamat, Ahmad Ridhuwan Abdullah, Nor Fadhilah Kamaruzzaman, Noor Janatun Naim Jemali, Nor Hafizah Anuar, Ahmad Fahme Mohd Ali, Wan Ab Aziz Wan Daud, Mohd Fathi Bin Abu Yaziz @ Mohamad, Mohd Hazim Mohamad Amini, Zulhisyam Abdul Kari, Ramly Hasan, Mohd Zulkifli Muhammad, Ruhil Hayati Hamdan, Noorzamzarina Sulaiman, Nurul Izrin Md Saleh, Nurul Izrin Md Saleh, Liyana Ahmad Afip, Gooi, LiangJun. (2024). Garis panduan penyediaan laporan penyelidikan Pengajian Siswazah Edisi Ketiga. Penerbitan Korporat UMK. 2. Nor Fadhilah Kamaruzzaman, Alexandru Chivu. (2020-03). Aplikasi Nanoteknologi Dalam Bidang Perubatan. Majalah sains.
RESEARCH(S)	1. DEVELOPMENT OF GRAPEHEN NANOCOMPOSITES PROTOTYPE FORMULATIONS FOR SKIN INFECTIONS | HEAD | PRGS | 2021 2. ELUCIDATION GRAPHENE ANTIMICROBIAL PROPERTIES AGAINST INRACELLULAR STAPHYLOCCOCCUS AUREUS FROM BOVINE MASTITIS | HEAD | FRGS | 2017 3. IN VIVO EVALUATION OF NANOPARTICLES FOR THE TREATMENT OF WOUND INFECTION | HEAD | UMKRS | 2020 4. INVESTIGATION ON PATHOPHYSIOLOGY OF PNEUMOVAGINA IN MARES | MEMBER | FRGS | 2017 5. PREVALENCE OF RESIDUAL ANTIBIOTICS, ANTIBIOTIC-RESISTANT ESCHERICHIA. COLI AND SALMONELLA SPP IN THE SURFACE WATER, POULTRY FARMS AND PROCESSING PLANTS IN KELANTAN, MALAYSIA | MEMBER | SGJP | 2017 6. PROJEK TERNAKAN AYAM KAMPUNG KACUK | MEMBER | GRANT(I/A) | 2022 7. PROTOTYPE DEVELOPMENT OF GRAPHENE NANOCOMPOSITE FOR WOUND HEALING IN ANIMAL | HEAD | PRGS | 2022 8. RAPID MICROWAVE SYNTHESIS OF REDUCED GRAPHENE OXIDE UNIFORMLY DECORATED WITH SILVER NANOPARTICLES FOR OPTICAL DETECTION OF MERCURY IONS | MEMBER | UMK-FUND | 2020 9. UNRAVELING THE DYNAMICS OF ESBL AND COLISTIN RESISTANCE GENES IN BACTERIODETES SPECIES FROM CHICKEN GUT AND ENVIRONMENT FOR EFFECTIVE CONTROL OF ANTIMICROBIAL RESISTANCE IN FARM ANIMALS. | MEMBER | FRGS | 2020
SUPERVISION	• **COMPARATIVE GENOMICS OF METHICILLIN-RESISTANT COAGULASE NEGATIVE STAPHYLOCOCCI FROM CATTLE IN EAST COAST MALAYSIA** | CO SUPERVISOR FOR A PHD'S STUDENT • **ELUCIDATION OF ANTIMICROBIALS AND ANTIBIOFILM PROPERTIES OF THE ADANSONIA DIGITATA (BAOBAB) AGAINST ESKAPE BACTERIA** | MAIN SUPERVISOR FOR A MASTER'S STUDENT • **GENOMIC AND METAGENOMIC CHARACTERIZATION OF CHICKEN GUT MICROBIOMES IN RESPONSES TO CEFTIOFUR AND COLISTIN TREATMENT: MOLECULAR CHARACTERIZATION OF COLISTIN RESISTANCE AND EXTENDED SPECTRUM BETA LACTA** | CO SUPERVISOR FOR A PHD'S STUDENT • **SERUM BIOCHEMISTRY SURVEILLANCE AND DIAGNOSTIC PARAMETER ESTABLISHMENT FOR POULTRY** | CO SUPERVISOR FOR A PHD'S STUDENT

RESEARCH AWARD (S)	• Product Name: Nano-healin for wound recovery in animal Award: SILVER Role: Head Exhibition Name: PECIPTA 22 • Product Name: NANOHEALIN Award: SILVER Role: Head Exhibition Name: PECIPTA 2022 • Product Name: The Impact Of Cell Culture Medium Towards Graphene Oxide Antimicrobial Activities Against Staphylococcus Aureus Isolated From Bovine Mastitis Award: NONE Role: HEAD Exhibition Name: CRI 2020

D. CONSULTATION

CONSULTATION(S)	1. PERUNDING UNIT PERKHIDMATAN DIAGNOSTIK VETERINAR VDSU FPV UMK | MEMBER | 2020 2. PROJEK AYAM KAMPUNG | MEMBER | 2021 3. KONSULTANT ECTP MAJLIS PEMULIHAN NEGERI KELANTAN | HEAD | 2021

E. COMMUNITY SERVICES

COMMUNITY SERVICES	