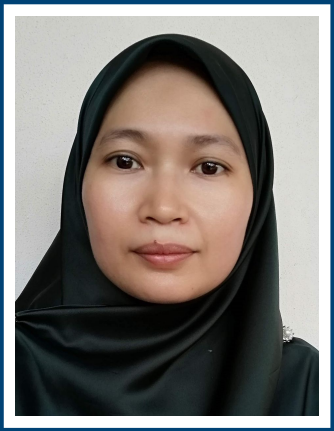


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FACULTY

Fakulti Sains Dan Teknologi

SUPERVISION

	COMPLETED	ONGOING
PhD	1	1
Master	5	1

AREAS OF EXPERTISE

- Plant-microbe Interactions
- Plant Physiology And Genetics
- Food Traceability And Halal Processing

ACADEMIC QUALIFICATION

- 2016 **PhD** - Plant Science
- 2010 **Master** - Molecular Biology
- 2006 **Bachelor** - Genetics

RESEARCH

1. STARCH AND PROTEIN CONTENT ANALYSIS OF DUCKWEED (WOLFFIA GLOBOSE AND LEMNA MINOR) ON BIOFERTILIZER FORMULATED FROM BIO-COMPOST AND MANGROVE-ASSOCIATED MICROBES

2025 · GERAN ANTARABANGSA · ON GOING · MAIN RESEARCHER

2. EVALUATING THE EFFECTIVENESS OF MANGROVE-ASSOCIATED MICROBES FOR ENHANCING CHILI AND OIL PALM GROWTH THROUGH PROBIOTIC TESTING FOR SUSTAINABLE SUPPLY OF CARBON, NITROGEN, PHOSPHORUS, AND POTASSIUM TO PLANT

2024 · GERAN KPT · ON GOING · MAIN RESEARCHER

3. OIL PALM MESOCARP FIBRE AS BIO-FERTILIZER: ACTION OF SELECTED MANGROVE-ASSOCIATED MICROBES IN ENHANCING NUTRIENT AVAILABILITY

2024 · GERAN KPT · ON GOING · MAIN RESEARCHER

4. EVALUATING THE EFFECTIVENESS OF MANGROVE-ASSOCIATED MICROBES FOR ENHANCING CHILI AND OIL PALM GROWTH THROUGH PROBIOTIC TESTING FOR SUSTAINABLE SUPPLY OF CARBON, NITROGEN, PHOSPHORUS, AND POTASSIUM TO PLANT

2024 · GERAN PENYELIDIKAN INDUSTRI · ON GOING · MAIN RESEARCHER

5. PROGRAM: EMPOWERING FOOD SECURITY IN MALAYSIA: A FRAMEWORK FOR TEMPORARY WAQF-BASED CROWDFUNDING FOR ALTERNATIVE PROTEINS ENTERPRISES PROJEK: HALAL GUIDELINES FOR ALTERNATIVE PROTEINS ENTERPRISES

2023 · GERAN PENYELIDIKAN TRANSDISIPLINARI · ON GOING · MAIN RESEARCHER

RESEARCH

6. PRODUCTION OF FERMENTED READY-TO-DRINK (RTD) BEVERAGE, CULTURE DRINK AND ICE CREAM FORTIFIED OF FUNCTIONAL INGREDIENT ISOLATED FROM EDIBLE BIRD?S NEST AND DUCKWEED

2021 | GERAN KPT (KKP) | COMPLETED | MAIN RESEARCHER

7. MECHANISTIC STUDY OF MICROBIAL COMMUNITY FROM MANGROVE RHIZOSPHERE FOR PLANT PROBIOTIC TESTING ON DUCKWEED

2019 | GERAN KPT | COMPLETED | MAIN RESEARCHER

8. AN INNOVATION OF HIGH RICH PROTEIN FOOD FROM DUCKWEED PLANTS

2019 | GERAN PEMBANGUNAN INOVASI (GPI) - TIDAK AKTIF | COMPLETED | MAIN RESEARCHER

9. ESTABLISHMENT RAPID METHOD FOR SPECIES IDENTIFICATION OF PHYTOPATHOGENS USING RECOMBINANT POLYMERASE AMPLIFICATION

2018 | GERAN PENYELIDIKAN USIM | COMPLETED | MAIN RESEARCHER

10. PROFILING OF LARD SAMPLES USING FOURIER TRANSFORM INFRARED SPECTROSCOPY (FTIR) AND THERMAL GRAVIMETRIC ANALYSIS (TGA) COUPLED WITH CHEMOMETRICS TECHNIQUES FOR THE DEVELOPMENT OF CERTIFIED REFERENCE MATERIAL (CRM)

2018 | GERAN PENYELIDIKAN KHAS | COMPLETED | MAIN RESEARCHER

11. MECHANISM OF DIALLYL-DISULFIDE (DDS) IN INFLUENCING RESISTANT OF HOST PLANTS AGAINST PHYTOPATHOGENS USING METABOLITE PROFILING

2017 | GERAN PENYELIDIKAN HEADSTART PROGRAM | COMPLETED | MAIN RESEARCHER

PUBLICATION

1. DENTAL DISEASE TREATMENT IN THE TIB MANUSCRIPT MSS2515 VIA HALAL MATERIAL USAGE

JOURNAL OF FATWA MANAGEMENT AND RESEARCH

2025 | JOURNAL | OTHER DATABASE | MAIN AUTHOR

2. PENGESANAN RESIDU NAJIS DAN BULU DALAM GLIKOPEPTIDA DARIPADA PRODUK SAMPINGAN SARANG BURUNG WALIT DAN IMPLIKASNYA TERHADAP STATUS HALAL

SAINS MALAYSIANA

2024 | JOURNAL | ISI AND SCOPUS | MAIN AUTHOR

3. METAGENOMIC DATA OF MICROBIOTA IN MANGROVE SOIL FROM LUKUT RIVER, MALAYSIA

DATA IN BRIEF

2024 | JOURNAL | SCOPUS | MAIN AUTHOR

4. DUNIA FLORA DALAM AL-QURAN INTEGRASI TAFSIR TEMATIK AL-QURAN DAN SAINS TUMBUHAN

2024 | BOOK | MAIN AUTHOR

5. EMERGING ANALYTICAL TECHNIQUES IN FOOD SAFETY AND BIOSECURITY

GREEN CHEMISTRY IN FOOD ANALYSIS CONVENTIONAL AND EMERGING APPROACHES

2023 | CHAPTER IN BOOK | MAIN AUTHOR

PUBLICATION

6. DUCKWEED AS A FUTURE FOOD: EVIDENCE FROM METABOLITE PROFILE, NUTRITIONAL ANALYSIS AND ANTIOXIDANT ACTIVITY

4TH INTERNATIONAL CONFERENCE ON FOOD AND NUTRITION

2021 PROCEEDING NON-INDEX MAIN AUTHOR

7. IDENTIFICATION OF METABOLITE PROFILE IN HALAL AND NON-HALAL BROILER CHICKENS USING FOURIER-TRANSFORM INFRARED SPECTROSCOPY (FTIR) AND ULTRA HIGH PERFORMANCE LIQUID CHROMATOGRAPHY- TIME OF FLIGHT- MASS SPECTROMETRY (UHPLC-TOF-MS)

JOURNAL OF THE MALAYSIAN SOCIETY OF APPLIED BIOLOGY

2020 JOURNAL SCOPUS MAIN AUTHOR

8. ANTIMICROBIAL AND ANTIOXIDANT ACTIVITIES IN ?BELUNTAS? (PLUCHEA INDICA), TURMERIC (CURCUMA LONGA) AND THEIR MIXTURES

SAINS MALAYSIANA

2020 JOURNAL ISI AND SCOPUS MAIN AUTHOR

9. DETECTION OF PORCINE ADULTERATION IN COSMETIC CREAM FORMULATION VIA TAQMAN PROBE REAL-TIME POLYMERASE CHAIN REACTION.

INTERNATIONAL JOURNAL OF ENGINEERING & TECHNOLOGY

2018 JOURNAL OTHER DATABASE MAIN AUTHOR

10. CHANGES OF METABOLITES STATUS IN PLANT PATHOGEN INTERACTION

ADVANCED SCIENCE LETTERS

2017 JOURNAL SCOPUS MAIN AUTHOR

11. INVESTIGATING THE METABOLISM OF CLUBROOT-INFECTED PLANTS BY INTEGRATING METABOLOMIC AND TRANSCRIPTOMIC APPROACHES.

KSM SPRING MEETING & KSM-ICWG-GSP JOINT CLUBROOT SYMPOSIUM

2015 PROCEEDING NON-INDEX MAIN AUTHOR

12. CARBOHYDRATE METABOLISM IN CLUBROOT-INFECTED ARABIDOPSIS THALIANA

11TH EUROPEAN FOUNDATION FOR PLANT PATHOLOGY CONFERENCE

2014 PROCEEDING NON-INDEX MAIN AUTHOR

13. METABOLIC INTERACTIONS BETWEEN PLASMODIOPHORA BRASSICAE AND ARABIDOPSIS THALIANA

ANNUAL MEETING OF THE SOCIETY FOR EXPERIMENTAL BIOLOGY

2013 PROCEEDING NON-INDEX MAIN AUTHOR

CONSULTATION

1. CONSULTATION PROJECT ON HALAL APTAMER

BIOGENES TECHNOLOGIES

2024 NATIONAL

CONSULTATION

2. ERYTHROPOIETIN (EPO) BIOSIMILAR, ERYSAA DERIVED FROM CHINESE HAMSTER OVARIAN (CH) CELL LINE FROM HALAL PERSPECTIVE

DUOPHARMA BIOTECH BERHAD

2021 NATIONAL

3. PROGRAM PENDAYAAN KOMUNITI UNIVERSITI AWAN (Komuniti@UniMADANI)

Kementerian Kewangan Malaysia (MOF)

National

4. HALAL PROCESS FOR MSMEs IN THE EDIBLE BIRD NEST SUBSECTOR: FIRST STEP IN APPLYING FOR HALAL CERTIFICATION

PEMBANGUNAN SUMBER MANUSIA BERHAD (HRDCORP)

National

AWARDS/RECOGNITION

1. VISITING PROFESOR

UNIVERSITY OF TUZLA, FACULTY OF TECHNOLOGY, TUZLA, BOSNIA AND HERZEGOVINA

2025 INTERNATIONAL

2. ANUGERAH PENERIMA GERAN PENYELIDIKAN

2024 UNIVERSITY

3. ANUGERAH PEMFAILAN HARTA INTELEK

2024 UNIVERSITY

4. ANUGERAH PENYELIDIKAN INAQ

2024 UNIVERSITY

5. ANUGERAH PENYELIA TERBILANG

2024 UNIVERSITY