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**CONTACT**

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**Address:** Fakulti Sains Dan  
Teknologi

**SUPERVISION**

PhD - Completed: 1, Ongoing: 1

Master - Completed: 5, Ongoing: 1

**AREAS OF EXPERTISE**

Plant-microbe Interactions

Plant Physiology And Genetics

Food Traceability And Halal Processing

**BIOGRAPHY**

A lecturer from Fakulti Sains Dan Teknologi. Holds a Phd in Plant Science.

**ACADEMIC QUALIFICATION**

Phd in Plant Science (2016)

Master in Molecular Biology (2010)

Bachelor in Genetics (2006)

**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 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 ON GOING MAIN RESEARCHER

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

2024 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 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 ON GOING MAIN RESEARCHER

**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 COMPLETED MAIN RESEARCHER

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

2019 COMPLETED MAIN RESEARCHER

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

2019 COMPLETED MAIN RESEARCHER

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

2018 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 COMPLETED MAIN RESEARCHER

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

2017 COMPLETED MAIN RESEARCHER

## PUBLICATION

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

2025 JOURNAL

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

2024 JOURNAL

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

2024 JOURNAL

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

2024 BOOK

### 5. EMERGING ANALYTICAL TECHNIQUES IN FOOD SAFETY AND BIOSECURITY

2023 CHAPTER IN BOOK

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

2021 PROCEEDING

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

2020 JOURNAL

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

2020 JOURNAL

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

2018 JOURNAL

### 10. CHANGES OF METABOLITES STATUS IN PLANT PATHOGEN INTERACTION

2017 JOURNAL

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

2015 PROCEEDING

### 12. CARBOHYDRATE METABOLISM IN CLUBROOT-INFECTED ARABIDOPSIS THALIANA

2014 PROCEEDING

### 13. METABOLIC INTERACTIONS BETWEEN PLASMIDIOPHORA BRASSICAE AND ARABIDOPSIS THALIANA

2013 PROCEEDING

## CONSULTATION/ADULATION

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### 1. CONSULTATION PROJECT ON HALAL APTAMER

2024 NATIONAL BIOGENES TECHNOLOGIES

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

2021 NATIONAL DUOPHARMA BIOTECH BERHAD

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

National Kementerian Kewangan Malaysia (MOF)

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

National PEMBANGUNAN SUMBER MANUSIA BERHAD (HRDCORP)

## AWARDS/RECOGNITION

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### 1. VISITING PROFESOR

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