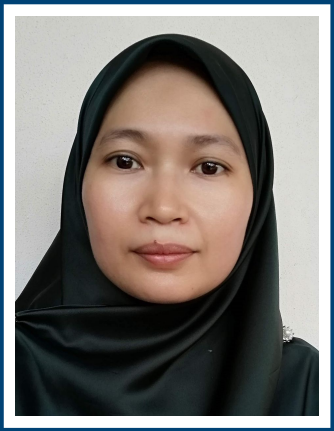


PROF. MADYA DR. NAZARIYAH BINTI YAHAYA

PENSYARAH UNIVERSITI DS14

CONTACT

PHONE

067988686

E-MAIL

nazariyah@usim.edu.my

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. EVALUATION OF CHITOSAN HYDROGEL DERIVED FROM SEAFOOD WASTE IN ENCAPSULATING AND DELIVERING MICROBIAL BIOCONTROL AGENTS FOR COMMUNITY-BASED VEGETABLE FARMING

2024 | GERAN PENYELIDIKAN PENTADBIR | ON GOING | CO-RESEARCHER

RESEARCH

6. 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

7. REMEDIES IN MALAY MEDICAL MANUSCRIPT MSS2515: ANALYSIS OF COMPOUND AND FUNCTION

2023 | GERAN PENYELIDIKAN PUSAT TANGGUNGJAWAB (PTJ) | ON GOING | CO-RESEARCHER

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

2023 | GERAN PENYELIDIKAN TRANSDISIPLINARI | ON GOING | CO-RESEARCHER

9. 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

10. MICROPLASTIC CONTAMINATION IN SHELLFISH LANDINGS AT DIFFERENT STRATEGIC SITES IN MALAYSIA.

2020 | GERAN PENYELIDIKAN USIM RACER | COMPLETED | CO-RESEARCHER

11. LARD METABOLITE FINGERPRINTING FROM DIFFERENT PIG BREEDS IN MALAYSIA AND THEIR BAKING PRODUCT USING METABOLOMICS ANALYSIS.

2020 | GERAN KPT | ON GOING | CO-RESEARCHER

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

2019 | GERAN KPT | COMPLETED | MAIN RESEARCHER

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

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

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

2018 | GERAN PENYELIDIKAN USIM | COMPLETED | MAIN RESEARCHER

15. 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

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

2017 | GERAN PENYELIDIKAN HEADSTART PROGRAM | COMPLETED | MAIN RESEARCHER

17. ELUCIDATION OF MEAT QUALITY IN HALAL AND NON-HALAL BROILER CHICKEN USING METABOLOMICS APPROACH

2017 | GERAN KPT | COMPLETED | CO-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. HALAL AUTHENTICATION: PORCINE DNA DETECTION IN CATFISH USING REAL-TIME POLYMERASE CHAIN REACTION (QPCR)

THIRD EUROPEAN HALAL CONGRESS 2025 & INTERNATIONAL CONFERENCE OF CONTEMPORARY HALAL AND FATWA (ICCOHAF 2024)

2025 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

3. IDENTIFICATION OF PORCINE DNA AND PROTEIN IN COMMERCIAL CAT FOOD FOR POTENTIAL MISLABELLING AND HALAL AUTHENTICATION

THIRD EUROPEAN HALAL CONGRESS 2025 AND THE FIRST INTERNATIONAL CONFERENCE ON CONTEMPORARY HALAL AND FATWA (ICCOHAF 2024)

2025 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

4. LIPID TRACEABILITY AND QUALITY OF BREAD MADE FROM LARD FROM DIFFERENT PIGS BREED

3RD EUROPEAN HALAL CONGRESS 2025

2025 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

5. NOVEL SUSTAINABLE BIO-FERTILIZER FORMULATED WITH MANGROVEASSOCIATED BACTERIA ENHANCES DUCKWEED GROWTH AND PROTEIN CONTENT

PERTANIKA JOURNAL OF TROPICAL AGRICULTURAL SCIENCE

2024 JOURNAL ISI, SCOPUS AND ERA CORRESPONDING AUTHOR

6. 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

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

DATA IN BRIEF

2024 JOURNAL SCOPUS MAIN AUTHOR

8. MALAY MEDICAL MANUSCRIPT OF THE BOOK OF TIB MSS2515: AN ANALYSIS OF SKIN DISEASES TREATMENT

INTERNATIONAL JOURNAL OF RELIGION

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

9. THE JUXTAPOSITION OF HALAL REGULATION AND FOOD SAFETY REGULATION

INTERNATIONAL JOURNAL OF RELIGION

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

10. INFRARED SPECTROSCOPY-BASED PRINCIPAL COMPONENT ANALYSIS FOR DIFFERENTIATION OF SOAPS PRODUCED FROM VEGETABLE OILS AND ANIMAL FATS

MALAYSIAN JOURNAL OF CHEMISTRY

2024 JOURNAL OTHER DATABASE CO-AUTHOR

PUBLICATION

11. EVALUATING THE PROXIMATE ANALYSIS OF SMOKED BANANA FRUIT LEATHER WITH PROBIOTIC

KOSIST AND SCITEXT 2024 (EMPOWERING THE FUTURE: SUSTAINABLE INNOVATIONS BY YOUNG MINDS

2024 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

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

2024 BOOK MAIN AUTHOR

13. OCCURRENCE AND PATHWAYS OF MICROPLASTICS, QUANTIFICATION PROTOCOL AND ADVERSE EFFECTS OF MICROPLASTICS TOWARDS FRESHWATER AND SEAWATER BIOTA

FOOD RESEARCH

2023 JOURNAL SCOPUS CO-AUTHOR

14. THE INCORPORATION OF THE HALAL MANAGEMENT SYSTEM (HMS) BY THE PHARMACEUTICAL INDUSTRY

GENERICS AND BIOSIMILARS INITIATIVE JOURNAL

2023 JOURNAL WOS CO-AUTHOR

15. EMERGING ANALYTICAL TECHNIQUES IN FOOD SAFETY AND BIOSECURITY

GREEN CHEMISTRY IN FOOD ANALYSIS CONVENTIONAL AND EMERGING APPROACHES

2023 CHAPTER IN BOOK MAIN AUTHOR

16. CHARACTERIZATION OF LARD PROFILE FROM DIFFERENT GEOGRAPHICAL REGIONS OF HUSBANDRIES AND BODY PARTS OF PIG USING FTIR TECHNIQUE COMBINED WITH CHEMOMETRICS

INTERNATIONAL JOURNAL ON ADVANCED SCIENCE ENGINEERING INFORMATION TECHNOLOGY

2022 JOURNAL SCOPUS CO-AUTHOR

17. DUCKWEED AS A FUTURE FOOD: EVIDENCE FROM METABOLITE PROFILE, NUTRITIONAL AND MICROBIAL ANALYSES

FUTURE FOODS

2022 JOURNAL SCOPUS MAIN AUTHOR / CONTACT PERSON IN USIM

18. PECTIN FROM DUCKWEED (LEMNACEAE) AS POTENTIAL COMMERCIAL PECTIN AND ITS GELLING FUNCTION IN FOOD PRODUCTION: A REVIEW

MALAYSIAN JOURNAL OF SCIENCE, HEALTH AND TECHNOLOGY

2022 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

19. ISOLATION AND IDENTIFICATION OF MANGROVE-ASSOCIATED BACTERIA FOR THE DEVELOPMENT OF PLANT PROBIOTICS

5TH INTERNATIONAL CONFERENCE ON MOLECULAR BIOLOGY & BIOTECHNOLOGY 2022

2022 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

20. COMPARISON OF HALAL FATS AND OILS WITH LARD USING FTIR AND CHEMOMETRICS

MINGGU PENYELIDIKAN DAN INOVASI SAINS DAN TEKNOLOGY, SYNERGIZING INNOVATION AND RESEARCH THROUGH SCIENCE AND TECHNOLOGY 2022

2022 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

PUBLICATION

21. INFLUENCE OF NECK SLAUGHTERING IN BROILER CHICKEN MEAT ON PHYSICOCHEMICAL ANALYSIS AND METABOLITES ?FINGERPRINTING? TO ENHANCE MEAT QUALITY

ARABIAN JOURNAL OF CHEMISTRY

2021 JOURNAL ISI CORRESPONDING AUTHOR

22. 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

23. IDENTIFICATION OF CUCUMBER-ASSOCIATED FUNGUS BY USING RECOMBINASE POLYMERASE AMPLIFICATION (RPA) METHOD

4TH INTERNATIONAL CONFERENCE OF MOLECULAR BIOLOGY & BIOTECHNOLOGY (ICMBB2021)

2021 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

24. 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

25. EFFECT OF DIFFERENT SLAUGHTERING METHODS ON METABOLITES OF BROILER CHICKENS USING ULTRA HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY-TIME OF FLIGHT-MASS SPECTROMETRY (UHPLC-TOF-MS)

FOOD RESEARCH

2020 JOURNAL SCOPUS CO-AUTHOR

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

SAINS MALAYSIANA

2020 JOURNAL ISI AND SCOPUS MAIN AUTHOR

27. SCREENING PORCINE DNA IN COLLAGEN CREAM COSMETIC PRODUCTS

FOOD RESEARCH

2020 JOURNAL SCOPUS CO-AUTHOR

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

SAINS MALAYSIANA

2020 JOURNAL INDEXED BY ISI AND SCOPUS CO-AUTHOR

29. RAWATAN SAKIT CACINGAN DALAM MANUSKRIP PERUBATAN MELAYU

2020 BOOK CO-AUTHOR

30. PLASENTA HAIWAN DALAM PRODUK KOSMETIK DAN FARMASEUTIKAL: HALAL ATAU HARAM?

MALAYSIAN JOURNAL OF SYARIAH AND LAW (MJSL)

2018 JOURNAL INDEX BY MYCITE 2019 CO-AUTHOR

PUBLICATION

31. CLUBROOT DISEASE STIMULATES EARLY STEPS OF PHLOEM DIFFERENTIATION AND RECRUITS SWEET SUCROSE TRANSPORTERS WITHIN DEVELOPING GALLS

THE PLANT CELL

2018 | JOURNAL | WOS | CO-AUTHOR

32. MODIFICATION OF ANTIOXIDANT PEPTIDE FROM LOACH PROTEIN BY PLASTEIN REACTION.

ACTA AGRICULTURAE ZHEJIANGENSIS

2018 | JOURNAL | OTHER DATABASE | MAIN AUTHOR / CONTACT PERSON IN USIM

33. 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

34. CHANGES OF METABOLITES STATUS IN PLANT PATHOGEN INTERACTION

ADVANCED SCIENCE LETTERS

2017 | JOURNAL | SCOPUS | MAIN AUTHOR

35. 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

36. CARBOHYDRATE METABOLISM IN CLUBROOT-INFECTED ARABIDOPSIS THALIANA

11TH EUROPEAN FOUNDATION FOR PLANT PATHOLOGY CONFERENCE

2014 | PROCEEDING | NON-INDEX | MAIN AUTHOR

37. 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

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

CONSULTATION

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

6. ACADEMIC ADVISOR

UNIVERSITI MALAYA HALAL RESEARCH CENTRE (UMHRC)

2024 NATIONAL

7. 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

RESEARCH SEMINAR UNIVERSITI SAINS ISLAM MALAYSIA

2024 UNIVERSITI CERTIFICATE OF APPRECIATION

8. FAT TRACEABILITY IN BREAD MADE WITH HALAL AND NON-HALAL FATS USING CHEMOMETRICS

SCEINCE AND TECHNOLOGY RESEARCH EXPO (SCITEX)

2024 UNIVERSITI SILVER

9. DEVELOPMENT OF SMOKED BANANA FRUIT LEATHER WITH PROBIOTIC

SCEINCE AND TECHNOLOGY RESEARCH EXPO (SCITEX)

2024 UNIVERSITI BRONZE

10. REVOLUTIONIZING AGRICULTURE: THE POWER OF BIO-FERTILIZERS IN MAXIMIZING PLANT GROWTH

INNOVATION BANK CHALLENGE 2023 (IBC2023)

2023 UNIVERSITI GOLD

AWARDS/RECOGNITION

11. DNA EXTRACTION KIT (FUN SCIENCE EXPERIMENT FOR KIDS)

INNOVATION BANK CHALLENGE (IBC 2022)

2022 UNIVERSITI SILVER

12. ENZYMO

INNOVATION BANK CHALLENGE (IBC 2022)

2022 UNIVERSITI BRONZE

13. AN INNOVATION OF ANTIOXIDANT-RICH AND HIGH PROTEIN ICE CREAM FROM DUCKWEED (LEMNA MINOR)

PERTANDINGAN INOVASI TEKNOLOGI PERTANIAN DAN MAKANAN MAMPAN

2021 KEBANGSAAN BRONZE

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

4th INTERNATIONAL CONFERENCE ON FOOD AND NUTRITION (ICFN)

2021 ANTARABANGSA BRONZE

15. PRO-SAGOO FOR HAPPY GIT BABY FOOD

INNOVATION BANK CHALLENGE (IBC 2021)

2021 UNIVERSITI SILVER

16. DUKSNILLA ICE CREAM MIX POWDER

INNOVATION BANK CHALLENGE (IBC 2021)

2021 UNIVERSITI SILVER

17. ANUGERAH PENYELIDIKAN

2020 UNIVERSITY

18. ACADEMIC ADVISOR

POLITEKNIK NILAI KEMENTERIAN PENGAJIAN TINNGI MALAYSIA

2020 NATIONAL

19. DEVELOPMENT OF ROSELLE JUICE STORED IN FLEX RETORT POUCHES

INTERNATIONAL INNOVATION COMPETITION (INNOCOM2020)

2020 ANTARABANGSA BRONZE

20. FST RISING STAR

2019 UNIVERSITY

21. ANUGERAH LIBATSAMA KOMUNITI KATEGORI PROJEK (FAST LAB-EDUCATIONAL SCIENCE KIT)

2019 UNIVERSITY

22. DEVELOPMENT OF MULBERRY (MORUS NIGRA) LEAF INCOPRATED HERBAL ICE CREAM

INTERNATIONAL SCIENCE AND SOCIAL SCIENCE INNOVATION COMPETITION i-SIC 2019

2019 ANTARABANGSA BRONZE

AWARDS/RECOGNITION

23. VISITING RESEARCHER

NORTHWEST MINZU UNIVERSITY (NWMU)

2017 INTERNATIONAL

24. ACADEMIC ADVISOR

PROGRAM MASSIVE OPEN ONLINE COURSES (MOOC) UNIVERSITI SAINS ISLAM MALAYSIA

2017 UNIVERSITY