

DR. NOR ZAIHANA BINTI ABDUL RAHMAN

PENSYARAH UNIVERSITI DS13

CONTACT

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03-42892457

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zaihana@usim.edu.my

FACULTY
Fakulti Pergigian

SUPERVISION

	COMPLETED	ONGOING
PhD	0	0
Master	1	0

AREAS OF EXPERTISE

Molecular Microbiology | Neurobiochemistry

ACADEMIC QUALIFICATION

2015 **PhD** - Pharmacology

2010 **Master** - Sains

2005 **B.Sc.** - Biotechnology

RESEARCH

1. **DECIPHERING THE RELATIONSHIP BETWEEN ORAL PATHOGEN BURDEN AND COGNITIVE FUNCTION IN YOUNG MALAYSIAN ADULTS: A PILOT STUDY**
   2026 | GERAN PENYELIDIKAN FUNDAMENTAL | ON GOING | MAIN RESEARCHER

2. **INHIBITORY EFFECT OF PROBIOTICS AGAINST CANDIDA BIOFILM ON DENTURE SURFACE**
   2022 | BIDUNI MIZANNIYAH | COMPLETED | MAIN RESEARCHER

3. **MOLECULAR CHARACTERIZATION OF PROBIOTIC INHIBITION PROPERTIES AGAINST PORPHYROMONAS GINGIVALIS**
   2019 | GERAN KPT | COMPLETED | MAIN RESEARCHER

4. **ANTIBACTERIAL ACTIVITY OF LOCAL MALAYSIAN HONEY AGAINST ORAL BACTERIA IN VITRO**
   2019 | GERAN PENYELIDIKAN KHAS | COMPLETED | CO-RESEARCHER

5. **ANTIBACTERIAL ACTIVITIES OF SPILANTHOL AGAINST ORAL BIOFILM BACTERIA AND ITS CAPACITY ON MODULATORY GENE EXPRESSION.**
   2019 | GERAN PENYELIDIKAN USIM | COMPLETED | CO-RESEARCHER

RESEARCH

6. IDENTIFYING BEST PRACTISES IN TEACHING-LEARNING IN THE INTEGRATION OF NAQLI AND AQLI KNOWLEDGE

2018 | PENYELIDIKAN TANPA BIAYA | COMPLETED | CO-RESEARCHER

7. DEVELOPMENT OF PROBIOTICS FOR CARRIES PREVENTION

2016 | GERAN PENYELIDIKAN TRANSLASIONAL | COMPLETED | MAIN RESEARCHER

PUBLICATION

1. OROGENYX: RESTORING ORAL HEALTH

INNOVATION BANK CHALLENGE

2025 | PROCEEDING | NON-INDEX | MAIN AUTHOR

2. MOLECULAR LINKS BETWEEN PERIODONTAL DISEASE AND ALZHEIMER?S DISEASE: A SYSTEMATIC REVIEW

INTERNATIONAL CONFERENCE ON MOLECULAR BIOLOGY AND BIOTECHNOLOGY

2025 | PROCEEDING | SCOPUS | MAIN AUTHOR

3. 5 KARYA UNTUK BUKU JIWA SEJUTA SAYANG

2025 | BOOK

4. PROBIOSHIELD: A NATURAL MOUTHWASH

INTERNATIONAL JOURNAL OF INNOVATION

2024 | JOURNAL | OTHER DATABASE | MAIN AUTHOR

5. PROBIOSHIELD ORAL RINSE

INTERNATIONAL SCIENCE AND SOCIAL SCIENCE INNOVATION COMPETITION

2024 | PROCEEDING | NON-INDEX | MAIN AUTHOR

6. BEHAVIOURAL SCIENCE: ENHANCING PATIENT-CENTRED CARE IN DENTISTRY

2024 | BOOK

7. BEHAVIOURAL SCIENCE: ENHANCING PATIENT-CENTERED CARE IN DENTISTRY

2024 | BOOK

8. GIGI CERITA MENIMBA ILMU

2023 | BOOK

9. CHARACTERIZATION AND POTENTIAL ORAL PROBIOTIC PROPERTIES OF LACTOBACILLUS PLANTARUM FT 12 AND LACTOBACILLUS BREVIS FT 6 ISOLATED FROM MALAYSIAN FERMENTED FOOD

ARCHIVES OF ORAL BIOLOGY

2022 | JOURNAL | ISI | CORRESPONDING AUTHOR

10. TRANSCRIPTOMIC PROFILE ANALYSIS OF STREPTOCOCCUS MUTANS RESPONSE TO ACMELLA PANICULATA FLOWER EXTRACTS

EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE

2022 | JOURNAL | ISI, SCOPUS, EBSCO | CO-AUTHOR

PUBLICATION

11. PROBIOTICS ALTER BIOFILM FORMATION OF PERIODONTAL PATHOGEN, PORPHYROMONAS GINGIVALIS VIRULENCE-ASSOCIATED GENES

6TH INTERNATIONAL CONFERENCE ON MOLECULAR DIAGNOSTICS & BIOMARKER DISCOVERY

2022 PROCEEDING SCOPUS CORRESPONDING AUTHOR

12. THERAPEUTIC POTENTIAL OF NIGELLA SATIVA

BIOCHEMISTRY, NUTRITION, AND THERAPEUTICS OF BLACK CUMIN SEED

2022 CHAPTER IN BOOK MAIN AUTHOR

13. IN VITRO ANTAGONISTIC EFFECT OF LACTOBACILLUS PLANTARUM FT 5 AGAINST PERIODONTAL PATHOGENS

INTERNATIONAL CONFERENCE ON DRUG DISCOVERY AND TRANSLATIONAL MEDICINE 2021

2021 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

14. ISOLATION AND ANTIMCIROBIAL ACTIVITY OF LACTIC ACID BACTERIA AGAINST STREPTOCOCCUS MUTANS

JOURNAL OF INTERNATIONAL DENTAL AND MEDICAL RESEARCH

2020 JOURNAL SCOPUS MAIN AUTHOR

15. ANTIMICROBIAL ACTIVITY OF PROBIOTIC AGAINST PORPHYROMONAS GINGIVALIS, A PERIODONTAL PATHOGEN

3RD INTERNATIONAL CONFERENCE ON ORAL MICROBIOLOGY & ORAL IMMUNOLOGY

2020 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

16. A SIMPLIFIED SYSTEM FOR SIMULATION OF STREPTOCOCCUS MUTANS BIOFILM ON HEALTHY EXTRACTED HUMAN TOOTH AS DENTAL PLAQUE MODEL.

JOURNAL OF APPLIED PHARMACEUTICAL SCIENCE

2019 JOURNAL SCOPUS CO-AUTHOR

17. INTERNALISING THE PRINCIPLE OF FAITH IN TEACHING-LEARNING

INTERNATIONAL JOURNAL OF EDUCATION, PSYCHOLOGY AND COUNSELING

2019 JOURNAL MYCITE CO-AUTHOR

18. USRAH-PBL: ENHANCING UKHWAH AND FIKRAH IN DENTISTRY

INTERNATIONAL SCIENCE AND SOCIAL SCIENCE INNOVATION COMPETITION (I-SIC 2019)

2019 PROCEEDING NON-INDEX CO-AUTHOR

19. INTEGRATING USRAH AND PROBLEM-BASED LEARNING AS AN EDUCATIONAL APPROACH IN THE COURSE OF BEHAVIOURAL SCIENCE FOR DENTAL PRACTISE

INTERNATIONAL SEMINAR ON ISLAM AND SCIENCE

2019 PROCEEDING NON-INDEX CO-AUTHOR

20. ISOLATION AND ANTIMICROBIAL ACTIVITY OF PROBIOTIC STRAINS FOR CARIES PREVENTION

FRONTIERS PHARMACOLOGY

2018 JOURNAL WOS MAIN AUTHOR

21. ISOLATION AND ANTIMICROBIAL ACTIVITY OF PROBIOTIC STRAINS FOR CARIES PREVENTION

INTERNATIONAL CONFERENCE ON DRUG DISCOVERY AND TRANSLATIONAL MEDICINE 2018 (ICDDTM '18) ?SEIZING OPPORTUNITIES AND ADDRESSING CHALLENGES OF PRECISION MEDICINE?

2018 PROCEEDING NON-INDEX MAIN AUTHOR

PUBLICATION

22. EFFECT OF PROBIOTICS ON ORAL HEALTH IN CHILDREN: A SYSTEMATIC REVIEW.

INTERNATIONAL CONFERENCE ON NATURAL SCIENCE AND HERITAGE FROM ISLAMIC PERSPECTIVE (INSPIRE) 2018

2018 PROCEEDING NON-INDEX MAIN AUTHOR

23. INTERNALISING THE PRINCIPLE OF FAITH IN TEACHING-LEARNING

SEMINAR SERANTAU PENDIDIKAN TINGGI ISLAM KE 5

2018 PROCEEDING NON-INDEX CO-AUTHOR

24. MITOGEN-ACTIVATED PROTEIN KINASE PHOSPHATASE-2 DELETION IMPAIRS SYNAPTIC PLASTICITY AND HIPPOCAMPAL-DEPENDENT MEMORY

JOURNAL OF NEUROSCIENCE

2015 JOURNAL WOS MAIN AUTHOR

25. ASTROCYTE GROWTH AND NEURITE LENGTH ARE REDUCED BUT INTRACELLULAR CALCIUM IS INCREASED IN MAP KINASE PHOSPHATASE 2 (MKP-2) KO MICE,

SIPBS ANNUAL RESEARCH SYMPOSIUM, UNIVERSITY OF STRATHCLYDE.

2014 PROCEEDING NON-INDEX MAIN AUTHOR

26. MKP-2 DELETION RESULTS IN REDUCED ASTROCYTE PROLIFERATION AND NEURITE GROWTH BUT INCREASED SYNAPTIC ACTIVITY IN MOUSE HIPPOCAMPAL PRIMARY CULTURES.

11TH SCOTTISH NEUROSCIENCE MEETING

2014 PROCEEDING NON-INDEX MAIN AUTHOR

27. ASTROCYTE GROWTH AND NEURITE LENGTH ARE REDUCED BUT INTRACELLULAR CALCIUM IS INCREASED IN MAP KINASE PHOSPHATASE 2 (MKP-2) KO MICE

GLASGOW NEUROSCIENCE DAY 2014

2014 PROCEEDING NON-INDEX MAIN AUTHOR

28. MAP KINASE PHOSPHATASE 2 (MKP-2) DELETION REDUCES ASTROCYTE NUMBER AND NEURITE LENGTH BUT INCREASES BASAL SYNAPTIC TRANSMISSION.

FESTIVAL OF NEUROSCIENCE, LONDON.

2013 PROCEEDING NON-INDEX MAIN AUTHOR

29. ASTROCYTE PROLIFERATION AND NEURITE GROWTH ARE REDUCED IN MAP KINASE PHOSPHATASE 2 (MKP-2) KO MICE

10TH SCOTTISH NEUROSCIENCE MEETING

2013 PROCEEDING NON-INDEX MAIN AUTHOR

30. DETERMINING THE ROLE OF MKP-2 IN THE CNS

GLASGOW NEUROSCIENCE DAY

2013 PROCEEDING NON-INDEX MAIN AUTHOR

31. PROBIOTIC POTENTIAL OF LACTIC ACID BACTERIA FROM FERMENTED MALAYSIAN FOOD OR MILK PRODUCTS.

INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY

2012 JOURNAL OTHER DATABASE CO-AUTHOR

PUBLICATION

32. DETERMINING THE CONSEQUENCE OF MAP KINASE PHOSPHATASE 2 (MKP-2) DELETION ON CNS FUNCTION. 9TH SCOTTISH NEUROSCIENCE MEETING, DUNDEE.

9TH SCOTTISH NEUROSCIENCE MEETING, DUNDEE.

2012 PROCEEDING NON-INDEX MAIN AUTHOR

33. CYTOPROTECTIVE EFFECT OF LACTIC ACID BACTERIA.

8TH MPS PHARMACY SCIENTIFIC CONFERENCE 2008.

2008 PROCEEDING NON-INDEX MAIN AUTHOR

34. CYTOTOXICITY AND CHOLESTEROL REDUCING ABILITY OF LACTIC ACID BACTERIA (LAB)

SYMPOSIUM ON DIET, NUTRITION AND IMMUNITY

2008 PROCEEDING NON-INDEX CO-AUTHOR

35. CYTOTOXIC SELECTIVITY AND ANTIMICROBIAL ACTIVITY OF LACTIC ACID BACTERIA (LAB).

SYMPOSIUM ON DIET, NUTRITION AND IMMUNITY

2008 PROCEEDING NON-INDEX CO-AUTHOR

36. ORGANIC ACID PROFILE OF LACTIC ACID BACTERIA ISOLATED FROM FERMENTED FOOD

2ND INTERNATIONAL CONFERENCE ON EAST-WEST PERSPECTIVE ON FUNCTIONAL FOODS: SCIENCE, INNOVATIONS AND CLAIMS

2007 PROCEEDING NON-INDEX MAIN AUTHOR

37. EFFECT OF LACTIC ACID BACTERIA ON CANCER AND NORMAL CELL PROLIFERATION

2ND INTERNATIONAL CONFERENCE ON EAST-WEST PERSPECTIVE ON FUNCTIONAL FOODS: SCIENCE, INNOVATIONS AND CLAIMS

2007 PROCEEDING NON-INDEX MAIN AUTHOR

38. ISOLATION OF LACTIC ACID BACTERIA AS PROBIOTICS TO IMPROVE HUMAN HEALTH

3RD LIFE SCIENCE PENANG POSTGRADUATE CONFERENCE

2006 PROCEEDING NON-INDEX MAIN AUTHOR

39. ACID AND BILE TOLERANCE OF LACTIC ACID BACTERIA AS PROBIOTICS FOR HUMANS

6TH MPS PHARMACY SCIENTIFIC CONFERENCE

2006 PROCEEDING NON-INDEX MAIN AUTHOR

AWARDS/RECOGNITION

1. ANUGERAH PENULIS PROFILIK

2025 INTERNATIONAL

2. BOOK MANUSCRIPT REVIEWER

USIM

2025 UNIVERSITY

3. JOURNAL PEER REVIEWER (PEWASIT ARTIKEL JURNAL)

MALAYSIAN JOURNAL OF MEDICINE AND HEALTH SCIENCES

2025 NATIONAL

AWARDS/RECOGNITION

4. OROGENYX: RESTORING ORAL HEALTH

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA SILVER

5. ACADEMIC ADVISOR

USIM

2024 UNIVERSITY

6. ACADEMIC ADVISOR

USIM

2024 NATIONAL

7. ACADEMIC ADVISOR

USIM

2024 NATIONAL

8. ACADEMIC ADVISOR

USIM

2024 UNIVERSITY

9. PROBIOSHIELD: A NATURAL MOUTHWASH

INTERNATIONAL SCIENCE AND SOCIAL SCIENCE INNOVATION COMPETITION (ISIC VI 2024)

2024 ANTARABANGSA SILVER

10. ACADEMIC ADVISOR

USIM

2023 UNIVERSITY

11. ACADEMIC ADVISOR

USIM

2023 UNIVERSITY

12. ACADEMIC ADVISOR

USIM

2023 UNIVERSITY

13. USRAH-PBL: ENHANCING UKHWAH AND FIKRAH IN DENSTISTRY

INTERNATIONAL SCIENCE AND SOCIAL SCIENCE INNOVATION COMPETITION i-SIC 2019

2019 ANTARABANGSA SILVER

14. USRAH-PBL AS A TEACHING - LEARNING METHOD

HARI KUALITI & INOVASI

2019 UNIVERSITI CERTIFICATE OF APPRECIATION

AWARDS/RECOGNITION

15. HERBAL AND LOCAL TRADITION WITHIN SCIENCE AND ISLAMIC KNOWLEDGE

INTERNATIONAL CONFERENCE ON NATURAL SCIENCE AND HERITAGE FROM ISLAMIC PERSPECTIVE (INSPIRE) 2018

2018 ANTARABANGSA

16. PLANTORA: A DESIGNER PROBIOTIC FOR ANTICANCER DIETARY MEASURES

INVENTIONS,INNOVATION & DESIGNS 2008

2008 KEBANGSAAN SILVER

17. LACTOGUT (A PROBIOTIC CULTURE PRODUCT)

35th INTERNATIONAL EXHIBITION OF INVENTIONS, NEW TECHNIQUES AND PRODUCTS,GENEVA, SWITZERLAND 2007

2007 ANTARABANGSA GOLD

18. GASTROLAC : A PROBIOTIC FOR THE DAIRY INDUSTRY

INVENTIONS,INNOVATIONS AND DESIGNS (IID)2007

2007 KEBANGSAAN GOLD