



## DR. AMIRA RAUDHAH BINTI ABDULLAH

PENSYARAH UNIVERSITI DS13

### CONTACT

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**E-mail:**  
amiraraudhah@usim.edu.my

**Faculty:** Fakulti  
Perubatan Dan Sains  
Kesihatan

### SUPERVISION

PhD - Completed: 0, Ongoing: 2

Master - Completed: 0,  
Ongoing: 0

## AREAS OF EXPERTISE

Gross Anatomy

Tissue Engineering

## ACADEMIC QUALIFICATION

Master in Anatomy (2023)

Master in Anatomy (2023)

PhD in Anatomi (2018)

Master in Safety, Health And Environment (2015)

Bachelor in Bioperubatan (2013)

## RESEARCH

**1. ARTIFICIAL INTELLIGENCE (AI)-ASSISTED PREDICTIVE FINITE ELEMENT ANALYSIS OF BONE BIOMECHANICS IN POSTMENOPAUSAL OSTEOPOROSIS RAT MODELS SUPPLEMENTED WITH FICUS CARICA (FIG)**

2026 GERAN PENYELIDIKAN FUNDAMENTAL ON GOING CO-RESEARCHER

**2. PROTECTIVE EFFECTS OF HABBATUS SAUDA (NIGELLA SATIVA) AGAINST CAFFEINE-INDUCED ALTERATIONS IN EPIPHYSEAL GROWTH PLATE AND ITS IMPACT ON THE LONGITUDINAL BONE GROWTH.**

2026 GERAN PENYELIDIKAN FUNDAMENTAL ON GOING MAIN RESEARCHER

**3. THE SYNERGISTIC ACTIVITY OF PAMIDRONATE ACTING ON VEGF AND BMP-2 GROWTH FACTORS FOR THE DEVELOPMENT OF HYDROXYAPATITE (HA) BONE SCAFFOLD.**

2020 GERAN KPT ON GOING MAIN RESEARCHER

**4. IDENTIFICATION OF NOVEL PREDICTIVE BIOMARKER,  
NUB1 ON THE COMBINED FEC-T ADJUVANT THERAPY  
AMONG BREAST CANCER PATIENTS**

2019

GERAN KPT

COMPLETED

CO-RESEARCHER

# PUBLICATION

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## 1. KNOWLEDGE, ATTITUDE, AND PRACTICE TOWARDS SAFE ANTINEOPLASTIC DRUG HANDLING: A CROSS SECTIONAL PILOT STUDY AMONG NURSES IN A TEACHING HOSPITAL

JOURNAL OF HEALTH AND ALLIED SCIENCES NU

2025 JOURNAL OTHER DATABASE CO-AUTHOR

## 2. MECHANISM AND PREDICTIVE ROLE OF NUB1 PROTEIN IN OESTROGEN RECEPTOR PATHWAY OF FEC-TREATED BREAST CANCER PATIENTS

BIOMEDICINES

2025 JOURNAL OTHER DATABASE CO-AUTHOR

## 3. NAVIGATING THE NEW NORM: REVIEW OF HEALTH RISKS ASSOCIATED WITH WIDESPREAD DISINFECTANT AND HAND SANITIZER USE

INTERNATIONAL JOURNAL OF COMMUNITY MEDICINE AND PUBLIC HEALTH

2025 JOURNAL OTHER DATABASE MAIN AUTHOR

## 4. BEYOND THE CELLS: ADVANCING CARTILAGE TISSUE ENGINEERING THROUGH INTEGRATED THERAPIES

5TH INTERNATIONAL CONFERENCE ON BIOENGINEERING FOR HEALTH AND ENVIRONMENT (ICBHE 2025)

2025 PROCEEDING NON-INDEX MAIN AUTHOR

## 5. DUAL GROWTH FACTOR-INTEGRATED ENGINEERED HYDROXYAPATITE (HA) SCAFFOLD WITH ALENDRONATE FOR OSTEOINDUCTIVE BONE REPAIR

10TH INTERNATIONAL CONGRESS ON BIOMATERIALS AND BIOSENSORS (BIOMATSEN)

2025 PROCEEDING NON-INDEX MAIN AUTHOR

## 6. EMPOWERING COMMUNITIES THROUGH ANATOMY: EDUCATING MINDS, TOUCHING LIVES

8TH INTERNATIONAL ANATOMICAL SCIENCE AND CELL BIOLOGY CONFERENCE (IASCBC)/3RD MALAYSIAN ANATOMICAL CONFERENCE (MAAC)

2025 PROCEEDING NON-INDEX CO-AUTHOR

## 7. FROM PREVENTION TO RELIEF, NURSING APPROACHES IN HANDLING MUCOSITIS: A LITERATURE REVIEW

36TH ANNUAL SCIENTIFIC CONGRESS OF MALAYSIA ONCOLOGICAL SOCIETY

2025 PROCEEDING NON-INDEX CO-AUTHOR

## 8. INTERPROFESSIONAL COLLABORATION IN THE SUPPORTIVE CARE OF DEMENTIA PATIENTS IN ONCOLOGY AND HEMATOLOGY: A REVIEW

10TH USIM NATIONAL HEALTH SEMINAR 2025

2025 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 9. INTEGRATING CELLULAR THERAPIES, BIOMATERIALS, AND MECHANICAL CUES IN CARTILAGE TISSUE ENGINEERING: A SYSTEMATIC REVIEW

10TH USIM NATIONAL HEALTH SEMINAR 2025

2025 PROCEEDING SCOPUS MAIN AUTHOR

## 10. ESTABLISHMENT OF FEMORAL BONE DEFECT MODEL IN SPRAGUE-DAWLEY RAT FOR ENGINEERED SCAFFOLD IMPLANTATION: A PILOT STUDY

IFMBE PROCEEDINGS

2024 JOURNAL OTHER DATABASE MAIN AUTHOR

## 11. ESTABLISHMENT OF FEMORAL BONE DEFECT MODEL IN SPRAGUE-DAWLEY RAT FOR ENGINEERED SCAFFOLD IMPLANTATION: A PILOT STUDY

9TH EUROPEAN MEDICAL AND BIOLOGICAL ENGINEERING CONFERENCE

2024 PROCEEDING SCOPUS MAIN AUTHOR

## 12. DUAL GROWTH-FACTORS DELIVERY (VEGF AND BMP-2) WITH ALENDRONATE IMPROVE CELL ADHESION IN OSTEOINDUCTIVE BONE REPAIR

9TH EUROPEAN MEDICAL AND BIOLOGICAL ENGINEERING CONFERENCE

2024 PROCEEDING NON-INDEX MAIN AUTHOR

## 13. INVESTIGATING THE PREDICTIVE POTENTIAL OF NUB1 IN 5-FLUOROURACIL, EPIRUBICIN, AND CYCLOPHOSPHAMIDE (FEC) TREATMENT FOR BREAST CANCER.

1ST NATIONAL CANCER CONGRESS MALAYSIA 2024: BRIDGING GAPS, BUILDING HOPE, EMPOWERING LIVES.

2024 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

# PUBLICATION

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## 14. P2Y12 RECEPTOR PROMOTES VASCULAR REMODELLING AND VASOCONSTRICTION, EVIDENCE OF ANTIPLATELETS AS POTENTIAL PHARMACOTHERAPY IN P2Y12 MEDIATED PATHOGENESIS.

1ST INTERNATIONAL CONFERENCE OF PHAS GLOBAL HEALTH: MULTI APPROACH FOR PRIMARY HEALTHCARE SYSTEM

2024 PROCEEDING NON-INDEX MAIN AUTHOR

## 15. UNRAVELLING THE P2Y12 RECEPTOR AND P2Y12 ANTAGONIST: BEYOND PLATELET AGGREGATION TO VASCULAR DYNAMICS AND IMMUNE MODULATION, A COMPREHENSIVE REVIEW

MALIKUSSALEH INTERNATIONAL CONFERENCE ON HEALTH AND DISASTER MEDICINE (MICOHEMED) 2024

2024 PROCEEDING NON-INDEX MAIN AUTHOR

## 16. HYDROXYAPATITE (HA) SCAFFOLD SUPPLEMENTED WITH VEGF AND BMP-2 GROWTH FACTORS ENHANCED OSTEOGENIC PROLIFERATION AND DIFFERENTIATION OF MC3T3-E1 CELLS

PHARMACY EDUCATION

2023 JOURNAL SCOPUS CORRESPONDING AUTHOR

## 17. SYNERGISTIC INTERACTION BETWEEN COMBINATION OF EXISTING THERAPY WITH POLYPHENOLS IN SEVERAL HUMAN DISEASES: A REVIEW

JOURNAL OF PHARMACY

2023 JOURNAL OTHER DATABASE MAIN AUTHOR

## 18. ESTABLISHMENT OF FEMORAL BONE DEFECT MODEL IN SPRAGUE-DAWLEY RAT FOR ENGINEERED SCAFFOLD IMPLANTATION: A PILOT STUDY

5TH INTERNATIONAL CONFERENCE ON THE SCIENCE AND ENGINEERING OF MATERIALS 2023 (ICOSEM2023)

2023 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 19. KNOWLEDGE, ATTITUDE AND PRACTICE ON SAFE HANDLING OF ANTINEOPLASTIC DRUGS (ANPDs) AMONG ONCOLOGY, HEMATOLOGY AND MEDICAL BASED NURSE IN HOSPITAL CANSOLOR TUNKU MUHRIZ.

UMMC INTERNATIONAL NURSING AND HEALTHCARE CONFERENCE 2023

2023 PROCEEDING NON-INDEX CO-AUTHOR

## 20. ANALYSIS ON THE IMPACT OF THE MODIFIED TEACHING DELIVERY IN ANATOMY IN RESPONSE TO COVID-19 PANDEMIC ON STUDENTS? PERFORMANCE IN UNIVERSITI SAINS ISLAM MALAYSIA (USIM)

2ND MALAYSIAN ANATOMICAL ASSOCIATION EDUCATION SYMPOSIUM (MAAES 2023)

2023 PROCEEDING NON-INDEX MAIN AUTHOR

## 21. DOUBLE ER7 AND NUB1 PROTEINS-NEGATIVE BREAST CANCER CELLS HAVE DNA SYNTHESIS PHASE ARREST FOLLOWING FEC TREATMENT: AN IN VITRO STUDY

5TH INTERNATIONAL PHARMACEUTICAL CONFERENCE

2023 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 22. OLIVE OIL AND ITS DERIVATIVES CONFER PROTECTIVE EFFECTS ON REPRODUCTIVE PHYSIOLOGY

USIM 9TH NATIONAL HEALTH SEMINAR 2023

2023 PROCEEDING SCOPUS CO-AUTHOR

## 23. HYDROXYAPATITE (HA) SCAFFOLD SUPPLEMENTED WITH VEGF AND BMP-2 GROWTH FACTORS ENHANCED OSTEOGENIC PROLIFERATION AND DIFFERENTIATION OF MC3T3-E1 CELLS

THE 4TH INTERNATIONAL CONFERENCE ON MEDICINE AND HEALTH SCIENCES

2022 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 24. SYNERGISTIC INTERACTION BETWEEN COMBINATION OF EXISTING THERAPY WITH POLYPHENOLS ON CURRENT MULTIFACTORIAL DISEASES: A REVIEW

THE 4TH INTERNATIONAL CONFERENCE ON MEDICINE AND HEALTH SCIENCES

2022 PROCEEDING NON-INDEX MAIN AUTHOR

## 25. OSTEOINDUCTION EVALUATION OF ENGINEERED HA-BISPHOSPHONATE SCAFFOLD FOR BONE TISSUE REGENERATION

THE 4TH INTERNATIONAL CONFERENCE ON MEDICINE AND HEALTH SCIENCES

2022 PROCEEDING NON-INDEX MAIN AUTHOR

**26. SUDDEN TRANSITION IN ANATOMY EDUCATION: ASSESSING THE PERCEPTION OF ANATOMY COURSE DELIVERY AMONG MEDICAL STUDENTS DURING COVID-19 PANDEMIC**

ULUM ISLAMIYYAH THE MALAYSIAN JOURNAL OF ISLAMIC SCIENCES

2021

JOURNAL

MYCITE

MAIN AUTHOR / CONTACT PERSON IN USIM

# PUBLICATION

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## 27. THE INFLUENCE OF PAMIDRONATE ON BIOENGINEERED HYDROXYAPATITE (HA) SCAFFOLD INCORPORATED WITH VEGF AND BMP-2 IN VITRO

VIRTUAL MEDICAL RESEARCH SYMPOSIUM 2021

2021 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 28. BRIDGING SCIENCE AND RELIGION ? TREATMENT OF DEPRESSED MUSLIM PATIENTS USING ISLAMIC INTEGRATED COGNITIVE BEHAVIOURAL THERAPY

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2020 JOURNAL OTHERS DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

## 29. THE ANNALS OF BIOMEDICAL ENGINEERING ON CRITICAL SIZE BONE DEFECT: A REVIEW

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2020 JOURNAL OTHERS DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

## 30. STUDENT'S PERCEPTION OF ANATOMY ONLINE LEARNING DURING COVID-19 PANDEMIC IN UNIVERSITI SAINS ISLAM MALAYSIA (USIM)

4TH INTERNATIONAL HEALTH E-CONFERENCE

2020 PROCEEDING NON-INDEX MAIN AUTHOR

## 31. CHALLENGES IN CONDUCTING MEDICAL AND LIFE SCIENCE RESEARCH DURING COVID-19

4TH INTERNATIONAL HEALTH E-CONFERENCE

2020 PROCEEDING NON-INDEX CO-AUTHOR

## 32. HUMAN GROSS ANATOMY PRACTICAL WORKBOOK

2020 BOOK CO-AUTHOR & CO-EDITOR

## 33. THE ROLE OF SEMIPURIFIED FRACTIONS ISOLATED FROM QUERCUS INFECTORIA ON BONE METABOLISM BY USING HFOB 1.19 HUMAN FETAL OSTEOBLAST CELL MODEL

EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE

2018 JOURNAL ERA MAIN AUTHOR

## 34. COMBINATION TREATMENT OF BIPHOSPHONATE (PAMIDRONATE) AND QUERCUS INFECTORIA SEMI- PURIFIED FRACTION PROMOTES PROLIFERATION AND DIFFERENTIATION OF OSTEOBLAST CELL VIA EXPRESSION OF OSTERIX AND RUNX2 MARKER

ASIAN PACIFIC JOURNAL OF TROPICAL BIOMEDICINE

2018 JOURNAL SCOPUS MAIN AUTHOR

## 35. A POTENTIAL INTERACTION BETWEEN QUERCUS INFECTORIA SEMI-PURIFIED FRACTION AND PAMIDRONATE FOR MANAGEMENT OF OSTEOPOROSIS

HEALTH SCIENCE SYMPOSIUM

2018 PROCEEDING NON-INDEX MAIN AUTHOR

## 36. PHYTOCHEMICAL ANALYSIS OF QUERCUS INFECTORIA GALLS EXTRACTS USING FTIR, LC-MS AND MS/MS ANALYSIS

RESEARCH JOURNAL OF BIOTECHNOLOGY

2017 JOURNAL SCOPUS MAIN AUTHOR

## 37. QUERCUS INFECTORIA SEMI-PURIFIED FRACTIONS PROMOTED BMP-2, RUNX2 AND OSTEOPONTIN EXPRESSION IN HUMAN FETAL OSTEOBLASTIC CELL LINE

INNOVATIONS IN CANCER RESEARCH AND REGENERATIVE MEDICINE

2017 PROCEEDING NON-INDEX MAIN AUTHOR

## 38. FTIR, LC-MS AND MS/MS ANALYSIS OF QUERCUS INFECTORIA EXTRACT

6TH INTERNATIONAL CONFERENCE ON BIOTECHNOLOGY FOR WELLNESS OF INDUSTRY 2016.

2016 PROCEEDING NON-INDEX MAIN AUTHOR

# AWARDS/RECOGNITION

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## 1. PENCAPAIAN LAPORAN NILAI PRESTASI TAHUNAN (LNPT) MELEBIHI 95% BAGI 2024

2025 OTHERS

## 2. ACADEMIC ADVISOR

PENYELIA SPECIAL STUDY MODUL II (PAW 5012) SESI AKADEMIK 2025/2026

2025 UNIVERSITY

## 3. ACADEMIC ADVISOR

PENYELIA SPECIAL STUDY MODUL I (PAW 4012) SESI AKADEMIK 2025/2026

2025 UNIVERSITY

## 4. ACADEMIC ADVISOR

PANEL PENILAI TEMU DUGA KEMASUKAN PELAJAR SALURAN TAHMIDI KE PROGRAM SARJANA MUDA PERUBATAN DAN SURGERI, FAKULTI PERUBATAN USIM

2025 UNIVERSITY

## 5. ACADEMIC ADVISOR

AHLI JAWATANKUASA UNIT PENDIDIKAN PERUBATAN (MEU), FPSK, USIM

2025 UNIVERSITY

## 6. ACADEMIC ADVISOR

LANTIKAN SEBAGAI PENILAI SESI PEMBENTANGAN SPECIAL STUDY MODULE I (SSM-PAW4012) PELAJAR TAHUN 4 SESI AKADEMIK 2024/2025

2025 UNIVERSITY

## 7. ACADEMIC ADVISOR

PENILAI LAPORAN SPECIAL STUDY MODULE I (SSM ? PAW4012) PELAJAR TAHUN 4 SESI AKADEMIK 2024/2025

2025 UNIVERSITY

## 8. ACADEMIC ADVISOR

PANEL PENILAI GERAN PENYELIDIKAN UNIVERSITI, FPSK USIM: BDNF-MEDIATED COGNITIVE ADAPTATION: INVESTIGATING DELAYED GRATIFICATION IN ZEBRAFISH

2025 UNIVERSITY

## 9. ACADEMIC ADVISOR

PANEL PENILAI LAPORAN AKHIR PENYELIDIKAN BAGI FPSK, USIM: ANTIBACTERIAL AND OSTEOGENIC ACTIVITIES OF HYDROXYAPATITE SOL-GEL COATING OF SELECTIVE LASER MELTING (SLM) Ti6Al4V FOR ORTHOPAEDIC AND DENTAL

2025 UNIVERSITY

## 10. ACADEMIC ADVISOR

PANEL PENILAI GERAN PENYELIDIKAN :EVALUATION OF PELVIS SIZE & SHAPE FOR ESTABLISHMENT OF A MALAYSIAN DATABASE & STANDARDS FOR FORENSIC IDENTIFICATION OF SEX & ANCESTRY 3D GEOMETRIC MORPHOMETRIC METHO

2025 UNIVERSITY

## 11. ACADEMIC ADVISOR

APPOINTMENT AS CONTENT EXPERT FOR FOCUS GROUP DISCUSSION (FGD), KEMENTERIAN PENDIDIKAN TINGGI, SAINS, DAN TEKNOLOGI, INDONESIA

2025 INTERNATIONAL

## 12. THE VIRTUAL LENS: EXPLORING STUDENT ENGAGEMENT IN ONLINE HISTOLOGY PRACTICAL

Pertandingan International Teaching & Learning Invention Innovation Competition (iTaLiC 2025)

2025 ANTARABANGSA SILVER

## 13. ARTNATOMY: AN INNOVATIVE ART-BASED APPROACH TO LEARNING HUMAN ANATOMY

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA BRONZE

**14. AI-DRIVEN PHYTOBONE SIMULATOR: HARNESSING SUNNAH FOODS FOR STRONGER BONES**

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA SILVER

# AWARDS/RECOGNITION

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## 15. ANUGERAH PERKHIDMATAN CEMERLANG 2024

2024 UNIVERSITY

## 16. ACADEMIC ADVISOR

PANEL PENILAI SESI PEMBENTANGAN KURSUS SPECIAL STUDY MODULE I (PAW4012) PELAJAR TAHUN 4 SESI AKADEMIK 2023/2024

2024 OTHERS

## 17. ACADEMIC ADVISOR

PANEL PENILAI SESI PEMBENTANGAN KURSUS SPECIAL STUDY MODULE I (PAW4012) PELAJAR TAHUN 4 SESI AKADEMIK 2023/2024

2024 OTHERS

## 18. ACADEMIC ADVISOR

PANEL QUALIFYING TEST PROPOSAL DEFENSE PELAJAR SARJANA

2024 UNIVERSITY

## 19. MYAFIATPAL: A CALORIE TRACKING APP INTEGRATING MALAYSIAN AND PROPHETIC FOODS FOR HEALTHY LIVING

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITI SILVER

## 20. MYAFIATPAL: A CALORIE TRACKING APP INTEGRATING MALAYSIAN AND PROPHETIC FOODS FOR HEALTHY LIVING

Pertandingan Inovasi FKP 2024

2024 UNIVERSITI BRONZE

## 21. BREAKING THE ATTENTION BARRIER: IMPLEMENTING THE "BRAIN MARATHON" TO ELEVATE STUDENT ENGAGEMENT AND LEARNING IN MALAYSIAN UNIVERSITIES

Pertandingan Inovasi FKP 2024

2024 UNIVERSITI SILVER

## 22. P2Y12 RECEPTOR PROMOTES VASCULAR REMODELLING AND VASOCONSTRICTION, EVIDENCE OF ANTIPLATELETS AS POTENTIAL PHARMACOTHERAPY IN P2Y12 MEDIATED PATHOGENESIS

The 1 International Conference of PHAS GLOBAL HEALTH : Multi Approach for Primary Healthcare System

2024 ANTARABANGSA BEST PAPER AWARD

## 23. VISITING RESEARCHER

CENTRE FOR TISSUE ENGINEERING AND REGENERATIVE MEDICINE (CTERM), FACULTY OF MEDICINE, UKM, ALONG WITH THE TISSUE ENGINEERING AND REGENERATIVE MEDICINE SOCIETY OF MALAYSIA (TESMA)

2023 INTERNATIONAL

## 24. ACADEMIC ADVISOR

PENILAI LAPORAN KURSUS SPECIAL STUDY MODULE TAHUN 5 2022/2023

2023 UNIVERSITY

## 25. ACADEMIC ADVISOR

PANEL PENILAI SESI PEMBENTANGAN KURSUS SPECIAL STUDY MODULE II (PAW5012) PELAJAR TAHUN 5 SESI AKADEMIK 2021/2022

2022 UNIVERSITY

## 26. ACADEMIC ADVISOR

FPSK,USIM

2021 UNIVERSITY

## 27. BEST E-POSTER AWARD (3RD PLACE)

2020 INTERNATIONAL

2020

UNIVERSITY

# AWARDS/RECOGNITION

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## 29. ACADEMIC ADVISOR

FPSK, USIM

2020

UNIVERSITY