

DR. ZULAIHA BINTI A RAHMAN

PENSYARAH UNIVERSITI DS13

CONTACT

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2543

E-MAIL
zulaiha@usim.edu.my

FACULTY
Fakulti Pergigian

SUPERVISION

	COMPLETED	ONGOING
PhD	0	0
Master	0	1

AREAS OF EXPERTISE

Human Physiology | Cell Culture Technology

ACADEMIC QUALIFICATION

2019 **PhD** - Dentistry Science

2012 **Master** - Sains Perubatan (fisiologi)

2006 **Bachelor** - Sains Forensik

RESEARCH

1. ARTIFICIAL INTELLIGENCE (AI) BASED TEST SYSTEM USING FACIAL EXPRESSIONS AND VOICE MODULATION AS AN ALTERNATIVE ASSESSMENT RUBRIC FOR STUDENT PRESENTATIONS TO ENHANCE COMMUNICATION SKILLS.

2025 | GERAN PENYELIDIKAN PUSAT TANGGUNGJAWAB (PTJ) | ON GOING | CO-RESEARCHER

2. ELUCIDATION OF IN VITRO CYTOTOXIC EFFECT OF SILVER NANOPARTICLES-KAEMPFEROL (AGNP-K) AGAINST HSC4 CELL LINE

2025 | GERAN PENYELIDIKAN PUSAT TANGGUNGJAWAB (PTJ) | ON GOING | MAIN RESEARCHER

3. ANTIBACTERIAL ACTIVITY OF SILVER NANOPARTICLE INCORPORATED WITH KAEMPFEROL (AGNP-K) AGAINST SELECTED BACTERIA

2024 | GERAN PENYELIDIKAN PUSAT TANGGUNGJAWAB (PTJ) | ON GOING | CO-RESEARCHER

4. EVALUATION OF MECHANISM CYTOTOXICITY OF SILVER NANOPARTICLES-KAEMPFEROL TOWARDS ORAL SQUAMOUS CELL CARCINOMA CELL LINES

2024 | GERAN KPT | ON GOING | MAIN RESEARCHER

5. SALIVARY PROTEIN EXPRESSION OF CHILDREN WITH DENTAL CARIES ATTENDING USIM DENTAL POLYCLINIC

2023 | BIDUNI MIZANNIYAH | COMPLETED | CO-RESEARCHER

RESEARCH

6. APOPTOTIC CHARACTERISTIC OF SELECTED CANCER CELL LINES AFTER EXPOSURE WITH SENNA ALATA METHANOLIC LEAVES EXTRACT

2023 | BIDUNI MIZANNIYAH | ON GOING | MAIN RESEARCHER

7. ELUCIDATION OF RNA POLYMERASE III DYSREGULATION MECHANISM VIA JNK-ACTIVATED PATHWAY IN MALAYSIAN ORAL SQUAMOUS CELL CARCINOMA.

2022 | GERAN PENYELIDIKAN USIM | ON GOING | CO-RESEARCHER

8. THE CYTOTOXICITY EFFECTS OF SENNA ALATA ON HUMAN CELLS

2022 | BIDUNI MIZANNIYAH | COMPLETED | CO-RESEARCHER

9. INVESTIGATION OF MEDICINAL PROPERTIES IN SENNA ALATA AND ACMELLA PANICULATA LEAVES EXTRACTS AGAINST ORAL DISEASES

2021 | BIDUNI MIZANNIYAH | ON GOING | MAIN RESEARCHER

10. ELUCIDATION OF TUALANG HONEY INCORPORATION MECHANISM FOR EPITHELIAL REGENERATION OF PRIMARY NORMAL ORAL MUCOSAL MODEL.

2020 | GERAN KPT | ON GOING | CO-RESEARCHER

11. ANTI-BIOFILM AND ANTI-ADHERENCE ACTIVITIES OF MELASTOMATA MALABAYRICHUM AXTRACTS AGAINTS STREPTOCOCCUS MUTANTS

2013 | GERAN PENYELIDIKAN JANGKA PENDEK | COMPLETED | CO-RESEARCHER

PUBLICATION

1. EVALUATION OF IN VITRO CYTOTOXICITY AND ANTIOXIDANT ACTIVITY OF SENNA ALATA LEAF EXTRACT ON THE MCF CELL LINE

8TH INTERNATIONAL CONFERENCE ON MOLECULAR BIOLOGY AND BIOTECHNOLOGY 2025 (ICMBB2025)

2025 | PROCEEDING | SCOPUS | CORRESPONDING AUTHOR

2. ANTIBACTERIAL ACTIVITY OF SILVER NANOPARTICLES INCORPORATED WITH KAEMPFEROL (AGNP-K) AGAINST SELECTED BACTERIA

11TH DENTAL STUDENTS' COLLOQUIUM

2025 | PROCEEDING | NON-INDEX | CORRESPONDING AUTHOR

3. SALIVARY PROTEIN PROFILES IN PAEDIATRIC DENTAL CARIES PATIENTS AT UNIVERSITI SAINS ISLAM MALAYSIA (USIM)

4TH INTERNATIONAL DENTAL CONFERENCE (I-DENT) 2025

2025 | PROCEEDING | MYCITE | CORRESPONDING AUTHOR

4. ELUCIDATION OF IN VITRO CYTOTOXIC EFFECT AND ANTIOXIDANT POTENTIAL OF SENNA ALATA LEAVES EXTRACT AGAINST MCF7 CELL LINE.

10TH USIM DENTAL STUDENTS' COLLOQUIUM

2024 | PROCEEDING | NON-INDEX | CORRESPONDING AUTHOR

PUBLICATION

5. SALIVARY PROTEIN EXPRESSION OF CHILDREN DENTAL CARIES ATTENDING UNIVERSITI SAINS ISLAM MALAYSIA (USIM) DENTAL POLYCLINIC

10TH USIM DENTAL STUDENTS' COLLOQUIUM

2024 PROCEEDING NON-INDEX CO-AUTHOR

6. TUALANG HONEY-LOADED MUCOADHESIVE PATCHES FOR ORAL MUCOSAL DRUG DELIVERY

AIRLANGGA DENTAL MEDICINE EXHIBITION (ADME)

2024 PROCEEDING NON-INDEX MAIN AUTHOR

7. TUALANG-HONEY MUCOADHESIVE PATCHES

MALAYSIA PHARMA & HEALTHCARE EXPO 2024

2024 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

8. POLYMER-BASED HYDROGEL LOADED WITH HONEY IN DRUG DELIVERY SYSTEM FOR WOUND HEALING APPLICATIONS

POLYMERS

2023 JOURNAL ERA CO-AUTHOR

9. THE CYTOTOXICITY EFFECTS OF SENNA ALATA ON CANCER CELLS

9TH DENTAL STUDENTS' COLLOQUIUM

2023 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

10. FORMULATION AND CHARACTERIZATION OF NOVEL MUCOADHESIVE TUALANG HONEY PATCHES FOR ORAL MUCOSAL DRUG DELIVERY

8TH INTERNATIONAL BIOTECHNOLOGY SYMPOSIUM

2023 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

11. GIGI CERITA MENIMBA ILMU

2023 BOOK CO-AUTHOR

12. ANTIOXIDANT ACTIVITY OF SENNA ALATA AND ITS CYTOTOXICITY AGAINST HUMAN BREAST CANCER CELL LINE (MCF-7).

8TH DENTAL STUDENTS' COLLOQUIUM

2022 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

13. FORMULATION DESIGN OF MUCOADHESIVE TUALANG HONEY PATCHES FOR ORAL ULCERATIVE LESIONS - A SCOPING REVIEW

POSTGRADUATE RESEARCH SYMPOSIUM 2022

2022 PROCEEDING NON-INDEX CO-AUTHOR

14. DETECTION OF SARS-COV-2 VIRAL LOAD IN SALIVA COLLECTED FROM ASYMPTOMATIC PATIENTS: A SCOPING REVIEW

4TH USIM INTERNATIONAL HEALTH E-CONFERENCE 2020 (IHEC 2020) IN CONJUNCTION WITH THE 3RD INTERNATIONAL CONFERENCE ON MEDICINE AND HEALTH SCIENCES (ICMHS)

2020 PROCEEDING NON-INDEX CO-AUTHOR

PUBLICATION

15. THE EFFECT OF TOOTHBRUSH BRISTLES ON POLYMETHYL METHACRYLATE (PMMA) DENTURE BASE MATERIAL

6TH DENTAL STUDENTS COLLOQUIUM

2019 PROCEEDING NON-INDEX MAIN AUTHOR

16. DEVELOPMENT OF A HUMAN SALIVARY GLAND ORGANOID MODEL

1ST INTERNATIONAL CONFERENCE BRAWIJAYA DENTISTRY

2019 PROCEEDING NON-INDEX MAIN AUTHOR

17. EFFECT OF ENERGY SUBSTRATE DYNAMICS ON MITOCHONDRIAL ACTIVITY AND OXIDATIVE STRESS LEVELS OF IN VITRO MATURING BOVINE OOCYTES

JOURNAL OF AGRICULTURAL SCIENCE

2017 JOURNAL ERA MAIN AUTHOR

18. THE DEVELOPMENT OF AN ORGANOID MODEL OF HUMAN SALIVARY GLANDS

11TH EUROPEAN SYMPOSIUM ON SALIVA

2017 PROCEEDING NON-INDEX MAIN AUTHOR

19. ORGANOID MODELS OF HUMAN SALIVARY GLANDS

BSODR ANNUAL SCIENTIFIC MEETING

2017 PROCEEDING NON-INDEX MAIN AUTHOR

20. ESTABLISHMENT OF CULTURE CONDITIONS FOR USE IN DEVELOPING AN ARTIFICIAL SALIVARY GLAND

CELL CULTURE 2016

2016 PROCEEDING NON-INDEX MAIN AUTHOR

21. EMBRYO APOPTOSIS IDENTIFICATION: OOCYTE GRADE OR CLEAVAGE STAGE?

SAUDI JOURNAL OF BIOLOGICAL SCIENCES

2015 JOURNAL OTHER DATABASE CO-AUTHOR

22. ESTABLISHMENT OF CULTURE CONDITIONS FOR USE IN DEVELOPING AN ARTIFICIAL SALIVARY GLAND BY USING HTB-41 CELL

BIOMATERIALS & TISSUE ENGINEERING GROUP, 17TH ANNUAL WHITE ROSE WORK IN PROGRESS MEETING

2015 PROCEEDING NON-INDEX MAIN AUTHOR

23. THE DYNAMIC EFFECTS OF ENERGY SUBSTRATES ON OXIDATIVE STRESS LEVEL OF IN VITRO MATURATION OF BOVINE OOCYTES

INTERNATIONAL CONFERENCE ON ADVANCES IN MEDICAL SCIENCE

2013 PROCEEDING NON-INDEX MAIN AUTHOR

24. ISOLATION AND CHARACTERIZATION OF NOVEL MICROSATELLITE LOCI FOR ASIAN SEA BASS, LATES CALCARIFER FROM GENOME SEQUENCE SURVEY (GSS) DATABASE

JOURNAL OF GENETICS

2012 JOURNAL WOS MAIN AUTHOR

PUBLICATION

25. EFFECTS OF GLUCOSE AND PYRUVATE IN THE CULTURE MEDIUM ON IN VITRO MATURATION OF BOVINE OOCYTES

MINGGU PENYELIDIKAN PERUBATAN DAN KESIHATAN KE-14

2012 PROCEEDING NON-INDEX MAIN AUTHOR

26. THE EFFECT OF ENERGY SUBSTRATE DYNAMIC OF IN VITRO MATURING OOCYTES.

26TH SCIENTIFIC MEETING OF MALAYSIAN SOCIETY OF PHARMACOLOGY & PHYSIOLOGY

2012 PROCEEDING NON-INDEX MAIN AUTHOR

27. A STUDY OF PEER ATTACHMENT AND JUVENILES DELINQUENCY, AMONG SEKOLAH HENRY GURNEY INMATES.

JURNAL KERJA SOSIAL MALAYSIA

2007 JOURNAL WOS CO-AUTHOR

AWARDS/RECOGNITION

1. ANUGERAH PERKHIDMATAN SETIA

2024 UNIVERSITY

2. ACADEMIC ADVISOR

PANEL PENILAI PERINGKAT FAKULTI PERGIGIAN BAGI GERAN PTJ

2024 UNIVERSITY

3. ACADEMIC ADVISOR

PANEL PENILAI PERINGKAT FAKULTI PERGIGIAN BAGI GERAN PTJ

2024 UNIVERSITY

4. ACADEMIC ADVISOR

PANEL PENILAI PERINGKAT FAKULTI PERGIGIAN BAGI GERAN PTJ

2024 UNIVERSITY

5. ACADEMIC ADVISOR

PUSAT PENGURUSAN PENYELIDIKAN & INOVASI

2024 UNIVERSITY

6. ACADEMIC ADVISOR

PUSAT PENGURUSAN PENYELIDIKAN & INOVASI

2024 UNIVERSITY

7. ACADEMIC ADVISOR

PUSAT PENGURUSAN PENYELIDIKAN & INOVASI

2024 UNIVERSITY

8. ACADEMIC ADVISOR

FAKULTI PERGIGIAN

2023 UNIVERSITY

AWARDS/RECOGNITION

9. ACADEMIC ADVISOR

PUSAT PEMASARAN DAN KEMASUKAN PELAJAR, USIM

2021 UNIVERSITY

10. ACADEMIC ADVISOR

FAKULTI PERGIGIAN, UNIVERSITI SAINS ISLAM MALAYSIA

2020 UNIVERSITY

11. NEW CHALLENGES TOWARD REGENERATIVE MEDICINE

1st INTERNATIONAL CONFERENCE BRAWIJAYA DENTISTRY

2019 ANTARABANGSA BEST PAPER AWARD

12. "DEVELOPMENT OF A HUMAN SALIVARY GLAND ORGANOID MODEL".

1st INTERNATIONAL CONFERENCE BRAWIJAYA DENTISTRY

2019 ANTARABANGSA BEST PAPER AWARD