Profile Image

DR. NADIA BINTI HALIB

PENSYARAH UNIVERSITI DS13

CONTACT

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FACULTY
Fakulti Pergigian

SUPERVISION

	COMPLETED	ONGOING
PhD	0	0
Master	1	1

AREAS OF EXPERTISE

Biomaterial Engineering

ACADEMIC QUALIFICATION

2011 **PhD** - Farmasi

2001 **Bachelor** - Sains Bioperubatan

RESEARCH

1. **MECHANISM UNDERLYING WOUND HEALING ACTIVITY OF TUALANG HONEY-SAGO/PVA HYDROGELS.**
   2024 | GERAN KPT | ON GOING | MAIN RESEARCHER

2. **PHYSICOCHEMICAL PROPERTIES OF HEAT CURE DENTURE BASE FABRICATED FROM RECYCLED POLYMETHYL METHACRYLATE (PMMA) RESIN**
   2023 | BIDUNI MIZANNIYAH | COMPLETED | MAIN RESEARCHER

3. **INHIBITORY EFFECT OF PROBIOTICS AGAINST CANDIDA BIOFILM ON DENTURE SURFACE**
   2022 | BIDUNI MIZANNIYAH | COMPLETED | CO-RESEARCHER

4. **INVESTIGATION OF MEDICINAL PROPERTIES IN SENNA ALATA AND ACMELLA PANICULATA LEAVES EXTRACTS AGAINST ORAL DISEASES**
   2021 | BIDUNI MIZANNIYAH | ON GOING | CO-RESEARCHER

5. **ANTIFUNGAL ACTIVITY OF FIG VINEGAR AGAINST THE ADHERENCE OF CANDIDA ALBICANS ON DENTURES**
   2021 | BIDUNI MIZANNIYAH | COMPLETED | CO-RESEARCHER

RESEARCH

6. PATIENT COMPLIANCE TOWARDS POST-OPERATIVE CARE FOLLOWING SURGICAL EXTRACTION OF MANDIBULAR THIRD MOLAR: A PROSPECTIVE STUDY

2020 | GERAN PENYELIDIKAN KHAS | COMPLETED | CO-RESEARCHER

7. ANTIBACTERIAL ACTIVITIES OF SPILANTHOL AGAINST ORAL BIOFILM BACTERIA AND ITS CAPACITY ON MODULATORY GENE EXPRESSION.

2019 | GERAN PENYELIDIKAN USIM | COMPLETED | CO-RESEARCHER

8. EFFECT OF MISWAK (SALVADORA PERSICA) MECHANICAL BRUSHING ON THE LONGEVITY OF POLYMETHYL METHACRYLATE (PMMA) DENTURE BASE MATERIAL

2017 | GERAN PENYELIDIKAN USIM | COMPLETED | CO-RESEARCHER

9. CHARACTERIZATION AND MOLECULAR MECHANISM OF SILVER NANOPARTICLE-?-SITOSTEROLS IN ENHANCING ANTIPROLIFERATIVE EFFECTS AGAINST ORAL CANCER CELL LINES FOR CANCER THERAPY.

2017 | GERAN KPT | COMPLETED | CO-RESEARCHER

10. ROLE OF SIWAK (SALVADORA PERSICA) IN PLAQUE REMOVAL USING 3D SIMULATION MODEL

2014 | GERAN KPT | COMPLETED | MAIN RESEARCHER

11. ANTI-PROLIFERATIVE EFFECTS OF CRUDE BANANA SOFT PITH (BSP) EXTRACTS AGAINST ORAL CANCER CELL LINES

2013 | GERAN KPT | COMPLETED | MAIN RESEARCHER

12. PEMBINAAN MODEL PRINSIP-PRINSIP FIQH DALAM RAWATAN PERUBATAN PERGIGIAN MODEN

2013 | GERAN KPT | COMPLETED | CO-RESEARCHER

PUBLICATION

1. EVALUATION OF MECHANICAL AND BIOLOGICAL PROPERTIES OF HEAT-CURED DENTURE BASE FABRICATED WITH RECYCLED PMMA POWDER

INTERNATIONAL JOURNAL OF DENTAL MATERIALS

2025 | JOURNAL | OTHER DATABASE | CORRESPONDING AUTHOR

2. SAGO SOOTH

INNOVATION BANK CHALLENGE IBC 2025

2025 | PROCEEDING | NON-INDEX | CO-AUTHOR

3. PRELIMINARY EVALUATION OF MECHANICAL AND BIOLOGICAL PROPERTIES OF HEAT CURE DENTURE BASE MODIFIED WITH RECYCLED PMMA-DENTURE BASE RESIN

4TH INTERNATIONAL DENTAL CONFERENCE (I-DENT) 2025 - ADVANCEMENTS IN DENTISTRY: SHAPING TOMORROW?S SMILES

2025 | PROCEEDING | NON-INDEX | CO-AUTHOR

4. EUCUGEL FOR INFECTION CONTROL AND PULP REGENERATION

INNOVATION BANK CHALLENGE (IBC) 2025

2025 | PROCEEDING | NON-INDEX | CO-AUTHOR

PUBLICATION

5. PERIODONTAL HEALTH AND MICROBIOLOGICAL CHARACTERISTICS OF SIWAK (CHEWING STICK) AND TOOTHBRUSH USERS: A CROSS-SECTIONAL STUDY

EUROPEAN JOURNAL OF GENERAL DENTISTRY

2024 JOURNAL SCOPUS CO-AUTHOR

6. MECHANICAL AND BIOLOGICAL PROPERTIES OF HEAT CURE DENTURE BASE MODIFIED WITH RECYCLED PMMA?BASED DENTURE RESIN

10TH DENTAL STUDENTS? COLLOQUIUM FACULTY OF DENTISTRY USIM

2024 PROCEEDING NON-INDEX CO-AUTHOR

7. SENNA ALATA EXTRACT AS A POTENTIAL CANDIDA ALBICANS BIOFILM INHIBITOR FOR POLYMETHYL METHACRYLATE BASED DENTURE

BOTANIC GARDENS SYMPOSIUM 2024: STRENGTHENING THE NETWORKS, PRESERVING BIOLOGICAL DIVERSITY

2024 PROCEEDING NON-INDEX MAIN AUTHOR

8. ANTIFUNGAL EFFICACY OF NIGELLA SATIVA OIL EXTRACT IN INHIBITING CANDIDA ALBICANS COLONIZATION ON 3D-PRINTED DENTURE BASES

BOTANIC GARDENS SYMPOSIUM 2024 (BGS2024)

2024 PROCEEDING NON-INDEX MAIN AUTHOR

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

AIRLANGGA DENTAL MEDICINE EXHIBITION (ADME)

2024 PROCEEDING NON-INDEX MAIN AUTHOR

10. TUALANG-HONEY MUCOADHESIVE PATCHES

MALAYSIA PHARMA & HEALTHCARE EXPO 2024

2024 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

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

POLYMERS

2023 JOURNAL ERA CO-AUTHOR

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

8TH INTERNATIONAL BIOTECHNOLOGY SYMPOSIUM

2023 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

13. GIGI CERITA MENIMBA ILMU

2023 BOOK

14. 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

15. AN OVERVIEW OF SIRNA DELIVERY STRATEGIES FOR UROLOGICAL CANCERS.

PHARMACEUTICS

2022 JOURNAL ERA MAIN AUTHOR / CONTACT PERSON IN USIM

16. SENNA ALATA EXTRACT AS A POTENTIAL CANDIDA ALBICANS BIOFILM INHIBITOR FOR POLYMETHYL METHACRYLATE-BASED DENTURE

8TH USIM DENTAL STUDENTS COLLOQUIUM

2022 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

17. ANTIFUNGAL ACTIVITY OF FIG VINEGAR AGAINST THE ADHERENCE OF CANDIDA ALBICANS ON DENTURES

8TH USIM DENTAL STUDENTS COLLOQUIUM

2022 PROCEEDING NON-INDEX CO-AUTHOR

18. MISWAK STARCH-BASED GEL AS TOPICAL PREPARATION FOR POTENTIAL MANAGEMENT OF INFECTIVE ULCERATION

INTERNATIONAL JOURNAL OF RESEARCH IN PHARMACEUTICAL SCIENCES

2021 JOURNAL SCOPUS MAIN AUTHOR

19. MICROPATTERNED ?-CARRAGEENAN-PVP-PEG HYDROGELS AS A TEMPLET FOR HEAD AND NECK CANCER SPHEROID CULTURE

JOURNAL OF APPLIED PHARMACEUTICAL SCIENCE

2021 JOURNAL SCOPUS CORRESPONDING AUTHOR

20. PATIENT COMPLIANCE TOWARDS POSTOPERATIVE CARE FOLLOWING SURGICAL EXTRACTION OF MANDIBULAR THIRD MOLAR: A PILOT STUDY

7TH INTERNATIONAL CONFERENCE ON QURAN AS FOUNDATION OF CIVILIZATION (SWAT 2021)

2021 PROCEEDING NON-INDEX CO-AUTHOR

21. MISWAK PULP POWDER AS DENTIFRICE

4TH USIM INTERNATIONAL HEALTH E-CONFERENCE 2020

2020 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

22. 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 MAIN AUTHOR

23. THE REMARKABLE THREE-DIMENSIONAL NETWORK STRUCTURE OF BACTERIAL CELLULOSE FOR TISSUE ENGINEERING APPLICATIONS

INTERNATIONAL JOURNAL OF PHARMACEUTICS

2019 JOURNAL ERA MAIN AUTHOR

24. ANTIBACTERIAL DRUG RELEASE FROM A BIPHASIC GEL SYSTEM: MATHEMATICAL MODELLING

INTERNATIONAL JOURNAL OF PHARMACEUTICS

2019 JOURNAL ERA CO-AUTHOR

PUBLICATION

25. ISLAMIC LEGAL MAXIMS ANALYSIS ON ORTHOGNATHIC SURGERY AND TREATMENT

INTERNATIONAL JOURNAL OF ISLAMIC THOUGHT

2019 JOURNAL SCOPUS CO-AUTHOR

26. THE TWO-DIMENSIONAL EFFECTS OF SALVADORA PERSICA MECHANICAL BRUSHING ON THE SURFACE OF POLYMETHYL METHACRYLATE DENTURE BASE MATERIAL

JOURNAL OF INTERNATIONAL DENTAL AND MEDICAL RESEARCH

2019 JOURNAL SCOPUS CO-AUTHOR

27. CYTOTOXICITY OF VCO MICROEMULSION DEVELOPED USING NON-IONIC SURFACTANTS MIXTURE AGAINST NORMAL L6 CELL AND OPTIMISATION ITS FORMULATION CONTAINING CURCUMIN

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2019 JOURNAL OTHER DATABASE CO-AUTHOR

28. NANOCELLULOSE: INSIGHT INTO HEALTH AND MEDICAL APPLICATIONS

HANDBOOK OF ECOMATERIALS

2019 CHAPTER IN BOOK MAIN AUTHOR

29. ANALYSIS OF TOOTHBRUSH RIG PARAMETER ESTIMATION USING DIFFERENT MODEL ORDERS IN REAL-CODED GENETIC ALGORITHM (RCGA)

INTERNATIONAL JOURNAL OF ENGINEERING & TECHNOLOGY

2018 JOURNAL SCOPUS CO-AUTHOR

30. NANOCELLULOSE: INSIGHT INTO HEALTH AND MEDICAL APPLICATIONS

HANDBOOK OF ECOMATERIALS

2018 CHAPTER IN BOOK MAIN AUTHOR

31. POTENTIAL APPLICATIONS OF NANOCELLULOSE-CONTAINING MATERIALS IN THE BIOMEDICAL FIELD

MATERIALS 2017, 10, 977

2017 JOURNAL WOS MAIN AUTHOR

32. PRELIMINARY ASSESSMENT OF SALVADORA PERSICA WHITENING EFFECTS ON EXTRACTED STAINED TEETH

JOURNAL OF APPLIED PHARMACEUTICAL SCIENCE

2017 JOURNAL SCOPUS MAIN AUTHOR

33. ORTHOGNATIC SURGERY AND TREATMENT: AN ISLAMIC LEGAL MAXIMS ANALYSIS

1ST IIUM INTERNATIONAL DENTAL CONFERENCE 2017

2017 PROCEEDING NON-INDEX CO-AUTHOR

34. THE USE OF DENTAL MATERIALS IN PERIODONTAL THERAPY IN MALAYSIA: AN ISLAMIC LEGAL MAXIM ANALYSIS

GEOGRAFIA ONLINETM MALAYSIAN JOURNAL OF SOCIETY AND SPACE

2016 JOURNAL ERA CO-AUTHOR

PUBLICATION

35. ISLAM AND TECHNOLOGICAL DEVELOPMENT IN MALAYSIA?S HEALTH CARE: AN ISLAMIC LEGAL BASIS ANALYSIS OF DENTAL MATERIALS USED IN PERIODONTAL THERAPY

GEOGRAFIA ONLINETM MALAYSIAN JOURNAL OF SOCIETY AND SPACE

2016 JOURNAL ERA MAIN AUTHOR

36. PRESENCE OF MINERAL CRYSTALS IN SALVADORA PERSICA STEM FIBERS AS NATURAL ABRASIVE AGENTS

3RD PAN-ASIAN BIOMEDICAL SCIENCE CONFERENCE

2016 PROCEEDING NON-INDEX MAIN AUTHOR

37. RAHSIA SIWAK DALAM SUNAH & SAINS PERGIGIAN

2016 BOOK CO-AUTHOR

38. KLEF OROFASIAL: PANDUAN PRINSIP FIQH DALAM PERANCANGAN RAWATAN

JURNAL ISLAM DAN MASYARAKAT KONTEMPORARI

2015 JOURNAL OTHER DATABASE CO-AUTHOR

39. TOPOLOGICAL CHARACTERIZATION OF A BACTERIAL CELLULOSE-ACRYLIC ACID POLYMERIC MATRIX.

EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES

2014 JOURNAL WOS MAIN AUTHOR

40. PHYSICOCHEMICAL PROPERTIES AND CHARACTERIZATION OF NATA DE COCO FROM LOCAL FOOD INDUSTRIES AS A SOURCE OF CELLULOSE.

SAINS MALAYSIANA

2012 JOURNAL WOS MAIN AUTHOR

41. SYNTHESIS AND CHARACTERIZATION OF THERMO- AND PH-RESPONSIVE BACTERIAL CELLULOSE/ACRYLIC ACID HYDROGELS FOR DRUG DELIVERY.

CARBOHYDRATE POLYMERS

2012 JOURNAL WOS CO-AUTHOR

42. COMPARISON STUDY OF HYDROGELS PROPERTIES SYNTHESIZED WITH MICRO- AND NANO- SIZE BACTERIAL CELLULOSE PARTICLES EXTRACTED FROM NATA DE COCO

CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY

2012 JOURNAL WOS CO-AUTHOR

43. UNIQUE STIMULI RESPONSIVE CHARACTERISTICS OF ELECTRON BEAM SYNTHESIZED BACTERIAL CELLULOSE/ACRYLIC ACID COMPOSITE

JOURNAL OF APPLIED POLYMER SCIENCE

2010 JOURNAL WOS MAIN AUTHOR

44. CARATTERIZZAZIONE DI MATRICI POLIMERICHE COMPOSTE DA CELLULOSA ED ACIDO ACRILICO

CONVEGNO DELLA SOCIETA ITALIANA DI REOLOGIA

2010 PROCEEDING NON-INDEX CO-AUTHOR

45. PENGEMBUNGAN HIDROGEL SELULOSA BAKTERIA-ASID AKRILIK : SENSITIVITI TERHADAP RANGSANGAN LUAR

SAINS MALAYSIANA

2009 JOURNAL WOS MAIN AUTHOR

PUBLICATION

46. SPECIFIC SWELLING BEHAVIOUR OF BACTERIAL CELLULOSE COMPOSITE AS POTENTIAL CANDIDATE FOR DRUG CARRIERS

JOURNAL OF PHARMACY AND PHARMACOLOGY

2009 JOURNAL WOS CO-AUTHOR

CONSULTATION

1. FABRICATION OF A TOOTHBRUSH SIMULATOR

GERAN PENYELIDIKAN : FRGS/1/2014/SG06/USIM/02/1 (USIM/FRGS/FPG/32/50414)

2016 UNIVERSITY

AWARDS/RECOGNITION

1. WRITER OF THE MONTH FOR JULY 2025

2025 OTHERS

2. EUCUGEL FOR INFECTION CONTROL AND PULP REGENERATION

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA SILVER

3. SAGO SOOTH

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA BRONZE

4. ANUGERAH PENULIS JURNAL BERIMPAK TERTINGGI

2023 UNIVERSITY

5. INVESTIGATIONS ON THE SURFACE COATING EFFECT OF NIGELLA SATIVA ON CONVENTIONAL AND 3-DIMENSIONAL (3D) PRINTED DENTURE BASE

INNOVATION BANK CHALLENGE 2023 (IBC2023)

2023 UNIVERSITI BRONZE

6. SECOND PRIZE AWARD (SUPERVISOR)

2022 OTHERS

7. THIRD PRIZE AWARD FOR ORAL PRESENTATION (SUPERVISOR)

2022 OTHERS

8. ANUGERAH PERAK

2022 UNIVERSITY

9. WRITER OF THE MONTH (MARCH 2022)

2022 OTHERS

AWARDS/RECOGNITION

10. SECOND PRIZE AWARD FOR POSTER PRESENTATION (SUPERVISOR)

2022 OTHERS

11. ANTIFUNGAL ACTIVITY OF FIG VINEGAR AGAINST THE ADHERENCE OF CANDIDA ALBICANS ON DENTURE BASES

PHARM - IIDEx 2022 Dream.Create.Inspire

2022 KEBANGSAAN GOLD

12. ANUGERAH MAKALAH JURNAL TERBAIK (SAINS TEKNOLOGI)

2020 UNIVERSITY

13. BEST E-POSTER AWARD (2ND PLACE)

2020 INTERNATIONAL

14. HARI INOVASI NUKLEAR MALAYSIA 2019

2019 NATIONAL

15. VISITING RESEARCHER

FAKULTI SAINS DAN TEKNOLOGI, UNIVERSITI KEBANGSAAN MALAYSIA

2019 NATIONAL

16. ANUGERAH PENERBITAN - KARYA ASLI TERBAIK (BUKU) KLUSTER SAINS TEKNOLOGI

2017 UNIVERSITY

17. BRONZE MEDAL IN ITEX2017 : TOOTHBRUSH SIMULATOR

2017 INTERNATIONAL

18. ANUGERAH PERKHIDMATAN CEMERLANG

2016 OTHERS

19. TOOTHBRUSH SIMULATOR MACHINE

EKSPO INOVASI ISLAM 1438H (i-INOVA16)

2016 UNIVERSITI CERTIFICATE OF APPRECIATION

20. GOLD MEDAL IN ITEX 2010 : NATA DE COCO-BASED HYDROGEL: A NOVEL COOLING-AID FEVER PATCH.

2010 INTERNATIONAL

21. VISITING SCHOLAR

UNIVERSITA DEGLI STUDI DI TRIESTE, ITALY

2009 INTERNATIONAL

22. BRONZE MEDAL IN ITEX2008 : NATA NANOGEL : A FRONTIER TO NOVEL DRUGS DELIVERY SYSTEMS.

2008 INTERNATIONAL