



## DR. RAHAYU BINTI AHMAD

PENSYARAH UNIVERSITI DS13

### CONTACT

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**Faculty:** Kolej Permata Insan

### SUPERVISION

PhD - Completed: 0, Ongoing: 0

Master - Completed: 1, Ongoing: 0

### AREAS OF EXPERTISE

Other Industrial And Environmental Biotechnology

Other Food Biotechnology

Other Microbiology

Fermentation Technology

Biotechnology

### ACADEMIC QUALIFICATION

PhD in Microbiologi (2017)

Master in Bioteknologi (2011)

Bachelor in Bioteknologi (2006)

### RESEARCH

1. MOLECULAR DESIGN AND EXTENSIVE STRUCTURE-ACTIVITY RELATIONSHIP (SAR) STUDIES OF  $\alpha$ -CARBOLINE ANALOGUE AS ANTIMICROBIAL THERAPEUTIC AGENT

2022 GERAN SEPADAN AGENSI KERAJAAN ON GOING MAIN RESEARCHER

2. ANTIMICROBIAL, ANTIFUNGAL, ANTIOXIDANT AND ANTICANCER OF BETA-GLUCAN FROM  $\alpha$ -CENDAWAN BUSUT? (TERMITOMYCES SP.) LOCALLY ISOLATED IN NEGERI SEMBILAN: A QUAD FUNCTIONAL NATURAL BIOACTIVE COMPOUND.

2019 GERAN PENYELIDIKAN USIM ON GOING MAIN RESEARCHER

# PUBLICATION

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## 1. ENHANCING BIOMASS-EXOPOLYSACCHARIDES PRODUCTION OF LIGNOSUS RHINOCERUS IN A HIGH-SCALE STIRRED-TANK BIOREACTOR AND ITS POTENTIAL LIPID AS BIOENERGY ENERGIES

2023 JOURNAL ERA MAIN AUTHOR

## 2. KIMIA

MODUL PENGAJARAN DAN PEMBELAJARAN SERTA PENTAKSIRAN BERSEPADU KURIKULUM PENDIDIKAN PINTAR BERBAKAT, INTEGRASI NAQLI DAN AQLI (IGED), TAHAP 1 ALI

2022 CHAPTER IN BOOK MAIN AUTHOR

## 3. KIMIA-DR RAHAYU AHMAD

MODUL PENGAJARAN DAN PEMBELAJARAN SERTA PENTAKSIRAN BERSEPADU KURIKULUM PENDIDIKAN PINTAR BERBAKAT, INTEGRASI NAQLI DAN AQLI (IGED), TAHAP 2

2022 CHAPTER IN BOOK MAIN AUTHOR

## 4. KIMIA-DR RAHAYU AHMAD

MODUL PENGAJARAN DAN PEMBELAJARAN SERTA PENTAKSIRAN BERSEPADU KURIKULUM PENDIDIKAN PINTAR BERBAKAT, INTEGRASI NAQLI DAN AQLI (IGED), TAHAP 2 HAMZAH

2022 CHAPTER IN BOOK MAIN AUTHOR

## 5. POLISI HAL EHWAL AKADEMIK, KOLEJ GENIUS INSAN

2022 POLICY

## 6. PELLET DIAMETER OF GANODERMA LUCIDUM IN A REPEATED-BATCH FERMENTATION FOR THE TRIO TOTAL PRODUCTION OF BIOMASSEXOPOLYSACCHARIDE-ENDOPOLYSACCHARIDE AND ITS ANTI-ORAL CANCER BETA-GLUCAN RESPONSE.

AIMS MICROBIOLOGY

2020 JOURNAL WOS MAIN AUTHOR

## 7. HYGIENIC TRAVEL SOAP FROM DABAI FRUITS OIL

CREATIONS DE UITM 2020

2020 PROCEEDING NON-INDEX MAIN AUTHOR

## 8. HYGIENIC TRAVEL SOAP FROM DABAI FRUITS OIL

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION. WORLD CONFERENCE AND EXHIBITION ON SOCIAL SCIENCES, SCIENCE & TECHNOLOGY

2019 PROCEEDING NON-INDEX MAIN AUTHOR

## 9. POLISI PECUTAN SIJIL PELAJARAN MALAYSIA

2019 POLICY

## 10. POLISI INSAN JUNIOR SCHOOL CERTIFICATE (IJSC)

2019 POLICY

## 11. INCORPORATION OF PALM OIL FOR THE ENHANCEMENT OF BIOMASS AND POLYSACCHARIDE PRODUCTION THROUGH SUBMERGED FERMENTATION FROM LOCALLY ISOLATED PLEUROTUS SP. MYCELIIUM

INTERNATIONAL JOURNAL OF ADVANCED RESEARCH (IJAR)

2018 JOURNAL SSCI MAIN AUTHOR

## 12. PRODUCTION OF COPOLYMER POLY(3-HYDROXYBUTYRATE-CO-4-HYDROXYBUTYRATE) THROUGH A ONE-STEP CULTIVATION PROCESS

WORLD JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY

2008 JOURNAL WOS MAIN AUTHOR

## CONSULTATION

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### 1. KAJIAN POPULASI SPESIES ULAR SAWA DAN BIAWAK AIR DI NEGERI PERAK

MINISTRY OF ENERGY AND NATURAL RESOURCES (KETSA)

2022

NATIONAL

### 2. AN IN-VITRO EVALUATION OF LAURIC ACID ISOLATED FROM COCONUT CRUDE OIL ON INHIBITING THE GROWTH OF SELECTED MICROORGANISM IN HUMAN SALIVA

MANIPAL INTERNATIONAL UNIVERSITY

2020

NATIONAL

### 3. KOLABORASI PENYELIDIKAN ANTARA MRSM KUALA KLawang DAN KOLEJ GENIUS INSAN

KEMENTERIAN PENDIDIKAN MALAYSIA

2019

NATIONAL

### 4. PRODUCTION OF BIOACTIVE ENDO AND EXOPOLYSACCHARIDE FROM MALAYSIAN TIGER MILK MUSHROOMS

UNIVERSITY MALAYA, AGROBIOTECHNOLOGY INSTITUTE MALAYSIA (ABI), NATIONAL INSTITUTE OF BIOTECHNOLOGY MALAYSIA (NIBM), AGENSI NUKLEAR MALAYSIA, KOLEJ GENIUS INSAN, USIM.

2018

NATIONAL

### 5. PRODUCTION OF BIOACTIVE ENDO AND EXOPOLYSACCHARIDE FROM MALAYSIAN TIGER MILK MUSHROOM

KEMENTERIAN PENDIDIKAN MALAYSIA

2018

NATIONAL

## AWARDS/RECOGNITION

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### 1. ANUGERAH INOVASI TERBAIK OKTOBER 2024

2024

UNIVERSITY

### 2. ANUGERAH INOVASI TERBAIK SEPTEMBER 2024

2024

UNIVERSITY

### 3. ANUGERAH PENULIS JURNAL CEMERLANG MEI 2024

2024

UNIVERSITY

### 4. ANUGERAH PENULIS JURNAL CEMERLANG JUN 2024

2024

UNIVERSITY

### 5. ANUGERAH PENULIS JURNAL CEMERLANG OKTOBER 2024

2024

UNIVERSITY