



## DR. MUHAMAD ARIF BIN MOHAMAD JAMALI

PENSYARAH UNIVERSITI DS13

### CONTACT

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**Address:** Fakulti Sains Dan Teknologi

### SUPERVISION

PhD - Completed: 0, Ongoing: 0

Master - Completed: 0, Ongoing: 1

### AREAS OF EXPERTISE

Crystallography

Bio-inorganic Chemistry

Structural Proteomics

Computational Biochemistry

Bioinformatics

### BIOGRAPHY

A lecturer from Fakulti Sains Dan Teknologi. Holds a Phd in Life Science, Picobiology (biophysics).

### ACADEMIC QUALIFICATION

Phd in Life Science, Picobiology (biophysics) (2020)

Master in Applied Biology (2016)

Bachelor in Biology (2013)

### RESEARCH

**1. FROM PLANTS TO PAIN RELIEF: A COMPUTATIONAL STUDY ON THE BINDING EFFICACY OF HERBAL COMPOUNDS TO THE MU-OPIOID RECEPTOR**

2024

ON GOING

MAIN RESEARCHER

**2. COMPUTATIONAL BIOPHYSICS SIMULATIONS OF CARDAMOMIN BINDING TO CANNABINOID RECEPTORS TO UNRAVEL ITS MOLECULAR MECHANISMS**

2023

ON GOING

MAIN RESEARCHER

## PUBLICATION

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1. THE ACTIVE FORM OF QUINOL-DEPENDENT NITRIC OXIDE REDUCTASE FROM NEISSERIA MENINGITIDIS IS A DIMER

2020 JOURNAL

## CONSULTATION/ADULATION

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1. PASUKAN PERUNDING HIGH PERFORMANCE COMPUTING (HPC)@USIM

2023 UNIVERSITY USIM

2. biosensor

National BIOGENES

## AWARDS/RECOGNITION

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1. BIOSPECTRO APPS: SPECTROPHOTOMETER APPLICATION FOR WATER MONITORING BASED ON DETECTION OF CHANGES IN WAVELENGTH

2026 Antarabangsa Silver

2. APC

2025 UNIVERSITY

3. VISITING SCIENTIST (SAINTIS PELAWAT)

2025 INTERNATIONAL

4. BIOPHYSICAL MECHANISMS OF APTAMER AND SHIGA TOXIN INTERACTION FOR APTAMER-BASED BIOSENSOR DETECTION: IN-SILICO ANALYSIS

2025 Kebangsaan Gold

5. IN SILICO DESIGN APTAMER FOR THE DETECTION OF BACTERIA LEAF BLIGHT DISEASE IN PADDY BY TARGETING THE VIRULENT PROTEIN

2024 Antarabangsa Silver