



## Dyke Gita Wirasisya

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### ABOUT ME

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A Lecturer in the Department of Pharmacy, Mataram University with a master in pharmaceutical science and vast research experience in medicinal plant extraction, phytochemical analysis (chromatography and spectrophotometry), microbiology analysis and ethnomedicinal fieldwork. Current research interest lies in drug discovery and bioprospecting based on natural products.

### WORK EXPERIENCE

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#### Lecturer - Department of Pharmacy

**University of Mataram** [ 01/04/2015 - Current ]

**City:** Mataram

**Country:** Indonesia

- Preparing course materials (laboratory experiments, lectures and exams).
- Presented few lectures (pharmacognosy, phytochemistry and pharmaceutical Microbiology)
- Led weekly laboratory works for groups of 18-28 students.
- Co-Supervised undergraduate students final project

#### Research Fellow

**Indonesian Ministry of Health** [ 01/04/2017 - 01/05/2017 ]

**City:** Jakarta

**Country:** Indonesia

Research Fellow : RISTOJA (Riset Tanaman Obat dan Jamu)/ Research on Medicinal Plants and Jamu : Community Based Exploration of Ethnomedicinal Knowledge and Medicinal Plants in Indonesia, West Nusa Tenggara.

Collaborative research project under the authority of Indonesian Ministry of Health. Three weeks field research in Kore (Dompu, West Nusa Tenggara, Indonesia) with anthropologist and other health worker (Physician and Nurse) in order to investigate local knowledge of plants with medicinal properties that has been used by local healers.

## EDUCATION AND TRAINING

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### M.Sc in Pharmaceutical Science

**Faculty of Pharmacy, Gadjah Mada University** [ 11/2012 - 10/2014 ]

**Address:** Sekip Utara, 55281 Yogyakarta (Indonesia)

**Final grade :** Final grade : 3,62/4,00

**Core modules:** Secondary Metabolites, Pharmaceutical Analysis, Sturture Elucidation, Research Methodology and Statistic, Medicinal Chemistry, Isolation and Purification, Pharmaceutical Technology of Natural Product, Pharmaceutical Microbiology, Molecular Biology, Phytotherapy, Pharmaceutical Biotechnology.

**Project:** Antibacterial and Antibiofilm Activity of Ethanolic Extract and Methanol Fraction From *Eleutherine americana* Againts Clinical Isolate *Staphylococcus aureus*. In this research project I examined the biofilm and antibacterial activity from widely used plants for wound healing in East Kalimantan (East Borneo) and analysed its secondary metabolites by using chromatography and spectrophotometry methods.

### Pharmacist

**Faculty of Pharmacy, Gadjah Mada University** [ 10/2011 - 11/2012 ]

**Address:** Sekip Utara, 55281 Yogyakarta (Indonesia)

**Final grade :** Final grade : 3,44/4,00

**Core modules:** Pharmacotherapy, Applied Biopharmaceutics, Compounding and Dispensing, Pharmaceutical Care, Drug Interaction, Industrial Pharmacy, Community Pharmacy, Pharmaceutics Ethics and Law, Product Management

**Details:** One years programs (full time) with 2 months industrial clerkship in PT.Combiphar (Indonesian Pharmaceutical Company).

### Bachelor in Pharmacy

**Faculty of Pharmacy, Gadjah Mada University** [ 10/2007 - 11/2011 ]

**Address:** Sekip Utara, 55281 Yogyakarta (Indonesia)

**Final grade :** Final grade : 3,06/4,00

**Core Modules:** Biolody Cell, Pharmacognosy, Biochemistry, Analytical Chemistry, Pharmaceutical Microbiology, Chromatography, Pharmacology, Molecular Pharmacology, Natural Product Chemustry, Bioanalysis, Analysis of Medicinal Plants Constituents, Plant Tissue Culture, Spectroscopy, Drug Delivery System, Phytopharmaceutical Technology

**Projects:** Allergenicity test of *Saccharum officinarum*.L on Wistar Rat. The research was conducted in vivo to assesses the allergenity from GMO (Genetically Modified Organism) sugarcane. By using ELISA and histochemistry I evaluate the IgE levels and mast cells evaluate using immunohistochemistry.

## WORKSHOP

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### Phylogenetic Analysis Workshop

[ 12/2020 ]

Introduction on molecular phylogenetic and using MEGA software for building phylogenetic tree

### Workshop on Bioinformatics - Using DAVID and STRING For Gene and Protein Analysis

[ 11/2020 ]

Introduction on DAVID dan STRING database for analysis of protein and gene interaction

### **One Day Isolation Training with Semi Preparative HPLC**

[ 09/2017 ]

Basic principle on secondary metabolites isolation using semi preparative HPLC.

### **TLC Fingerprint Analysis Training for Medicinal Plants Authentication and Identification**

[ 09/2016 ]

Training to identify, discriminate and authenticate botanical raw material by using Thin Layer Chromatography. Mobile phase mixture optimization for sample separation. using densitometer and ImageJ for sample quantification.

## **CONFERENCES AND SEMINARS**

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### **International Conference on Science and Technology "Integration of Science and Technology For Sustainable Development in Industrial 4.0 Era"**

[ Mataram, 10/12/2019 ]

Oral Presentation

### **The 1st International Conference on Global Health and Innovation**

[ Mataram, 18/07/2019 - 19/07/2019 ]

Oral presentation

### **Seminar, Workshop and Congress APTFI (Indonesia Association of Higher Pharmaceutical Education) "Interprofessional Education"**

[ Malang, 02/05/2019 - 03/05/2019 ]

Oral Presentation

### **The 1st International Conference and Workshop on Bioscience and Biotechnology**

[ Mataram, 28/11/2018 ]

Oral Presentation

### **The 9th International Conference on Global Resource Conservation**

[ Malang, 07/03/2018 - 08/03/2019 ]

Poster Presentation

## **PUBLICATIONS**

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### **Ethnobotanical Study of Medicinal Plants Used to Treat Degenerative Disease in East Lombok**

Jurnal Biologi Tropis, 2020, 20(3), 423-431.

### **Antibacterial Activities from Gel Hand Sanitizer of *Jatropha curcas* Leaves Ethanolic Extract Against *Staphylococcus aureus* ATCC 25923**

Sasambo Journal of Pharmacy, 2020, 1(1), 6-11.

### **Antimicrobial Potential of Methanol Extract from *Kastuba* Leaf (*Euphorbia pulcherrima* Willd.)**

Natural B, Journal of Health and Environmental Sciences, 2019, 5(1).

### **The Antibiofilm Activity of *Jatropha curcas* L. Latex on *Staphylococcus aureus* ATCC 25923**

Natural B, Journal of Health and Environmental Sciences, 2019, 5(1).

## **Free Radical Scavenging Effect From Infusion and Ethanolic Extract of Pegagan (Centela asiatica) Using DPPH Method**

Jurnal Pijar Mipa, 2019, 14(1), 100-106.

## **Evaluation and Identification of Antibacterial Compound From the Leaf and Barks of Neem (Azadirachta indica) Againsts Eschericia coli**

Jurnal Tumbuhan Obat Indonesia, 2018, 11(2), 40-48.

## **Effect of Two Different Drying Methods on Antibacterial Activity of Ashitaba Againsts Streptococcus mutans**

Galenika Journal of Pharmacy, 2018, 4(1).

## **HONOURS AND AWARDS**

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### **Best Poster Presentation**

The 9th International Conference on Global Resource Conservation (ICGRC) [ 2018 ]

### **East Kalimantan Government Research Grant for Graduate Program**

East Kalimantan Province, Indonesia [ 2014 ]

## **LANGUAGE SKILLS**

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Mother tongue(s):

**Indonesia**

### **English**

**LISTENING: C1 READING: C1 WRITING: B2**

**SPOKEN PRODUCTION: C1**

**SPOKEN INTERACTION: C1**

## **TECHNICAL AND JOB RELATED SKILLS**

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### **Technical skills**

- Secondary metabolites separation and detection techniques (TLC, HPLC, GC, UV-Vis Spectrophotometry, TLC-densitometry)
- Microbiological and biological techniques (macro and microdilution bacterial assay, antibiofilm assay, ELISA, gel-electrophoresis)

### **Computer and Software**

- Good command of Microsoft office tools
- Basic command of visualising and statistic tools (ImageJ, cytoscape and SPSS)
- Standart software for publishing and managing bibliographies.

## **VOLUNTEERING**

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### **Health worker volunteer - Lombok earthquake disaster**

[ 08/2018 - 09/2018 ]

### **Health worker volunteer - Yogyakarta, merapi volcano eruption**

[ 09/2010 ]