

PANDE PUTU ERAWIJANTARI

Interested in applying bioinformatics analysis on the complex multi-omics data such as metagenomic, metabolomic, and metatranscriptomic. Current research mainly focuses on the dynamics of the human gut microbiome in gastrointestinal-related diseases and its association with treatment effectiveness. Seeking for research opportunity in data exploration from large scale microbiome study, especially for understanding host-microbiome interaction.

EDUCATION

- Present | 2017
- **PhD Candidate–Life Science and Technology**
Tokyo Institute of Technology 📍 Tokyo JP
 - Research project: Microbiome multi-omics analysis
 - Skills learned: Multi-omics integration, Biostatistic, Machine learning
- 2017 | 2015
- **M.Sc–Biological Information**
Tokyo Institute of Technology 📍 Tokyo JP
 - Research project: Gut microbiome in gastrointestinal related diseases
 - Skills learned: Metagenomics analysis pipeline, Biostatistic
- 2014 | 2010
- **B.Sc–Biology**
Institut Teknologi Bandung 📍 Bandung ID
 - Research project: Gene mutagenesis isolated from deep sea metagenome
 - Skills learned: Site-directed mutagenesis, Genetic engineering, Protein expression, Enzyme kinetic

SELECTED PUBLICATIONS

- 2020
- **Influence of gastrectomy for gastric cancer treatment on faecal microbiome and metabolome profiles**
Erawijantari PP, Mizutani S, Shiroma H, Shiba S, Nakajima T, Sakamoto T, Saito Y, Fukuda S, Yachida S, Yamada T. *Gut*. doi:10.1136/gutjnl-2019-319188
- 2016
- **Anti-inflammatory effect of mangosteen (*Garcinia mangostana* L.) peel extract and its compounds in LPS-induced RAW264.7 cell**
Widowati W, Darsono L, Suherman J, Fauziah N, Maesaroh M, Erawijantari PP. *Nat Prod Sci* 22(3):147-153.
- 2015
- **In vitro study of *Myristica fragrans* seed (Nutmeg) ethanolic extract and quercetin compound as anti-inflammatory agent**
Dewi K, Widyarto B, Erawijantari PP, Widowati W. *Int J Res Med Sci* 3 (9), 2303-2310.

SELECTED CONFERENCES

- October, 2019
- **Fecal microbiome and metabolome characterizations of patients after gastrectomy for gastric cancer treatment**
Erawijantari PP, Mizutani S, Shiroma H, Yachida S, Yamada T. Keystone Symposia on Molecular and Cellular Biology: Microbiome: Therapeutic Implications (T1).Poster.
- June, 2018
- **Metagenomic and metabolomic profiling to characterize the effect of gastrectomy as gastric cancer treatment on human gut microbiome**
Erawijantari PP, Mizutani S, Shiroma H, Yachida S, Yamada T. 7th International Human Microbiome Consortium : Translating microbiome science. Poster.
 - Selected as Early Career Scientist Bursary Recipient



CONTACT

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SKILLS

🐍 Python
📊 R
🔑 Git
>_ Bash
🐧 Unix/Linux
🖥 HPC (SGE)

Experienced in computational bioinformatics and biostatistics applied for next-generation sequencing data integrated to other omics analyses, especially for microbiome study.

This resume was made with the R package [pagedown](https://github.com/josiahpage/pagedown).

Source code available at: github.com/erawijantari/cv.


Last updated on 2020-01-22.



TEACHING EXPERIENCES

Present
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2019

Initiator and Tutor for RPyID Session

Local community of Indonesian students in Tokyo Institute of Technology  Tokyo JP

- Introductions of R and Python for data analysis
- Designing the biweekly meeting course and discussion
- Sites: [RPyID-GitHub](#)

2018

Teaching Asistant-International Bio-Creative Design

School of Life Science and Technology, Tokyo Tech  Tokyo JP

- Tutor for discussion using topic from “The Breakthrough of the year” selected by the Journal “Science”
- Sites: [International Bio-Creative Design](#)

2017

Research Asistant-LST Bioleader Training 1

School of Life Science and Technology, Tokyo Tech  Tokyo JP

- Supervising a master student's project in Yamada laboratory-Tokyo Tech
- Sites: [LST Bioleader Training 1](#)



SELECTED AWARDS

2020
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2015

Japanese Government (Monbukagakusho:MEXT) Scholarship recipient

Awarded to foreign students who study in higher education institutions, selected on the recommendation of Japanese Embassy/Consulate General, University, or Authority.

2018

International Human Microbiome Consortium 2018 Early Career Scientist Bursary Recipient

Conference travel grant available to 12 scientists works on human microbiome research.

2014

Gold medalist as ITB_Indonesia team on iGEM (International Genetically Engineered Machine)

Project title: “Ecoliplaster: cell biocatalyst for PET plastic degradation using E. coli”.



WORK EXPERIENCES

Present
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2017

Research Assistant

Yamada Laboratory-Tokyo Institute of Technology  Tokyo JP

- Primarily working on multi-omics analysis of gastrectomy patients
- Contribute to data analysis on hereditary colorectal cancer project
- Contribute to the methods development for the eukaryotic fraction detection

2019
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2018


Student Intern-Data Analyst

Metabologenomics, Inc.  Tokyo JP

- Contribute as data analyst and metagenomic pipeline development

2015
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2014

Research Scientist

Biomolecular and Biomedical Research Center, Aretha Medika Utama  Bandung ID

- Carried out analyses on the phytochemical bioactive screening for cancer treatment using human cells line model

Teaching give me an opportunity to learn new things. Designing the course and developing effective teaching approach are a challenging process that I mostly enjoyed.

REFERENCES

1. TAKUJI YAMADA, Ph.D

Associate Professor

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152-8550, Japan

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