

# Clarisse Ratu Diandra

Enthusiastic biochemist and challenge-driven researcher, intrigued by solving gaps in forefront of current research advancements.

## Education

### Biochemistry Master of Biology, Bachelor of Science

University of Leeds, United Kingdom, September 2020 - June 2024

Research experience in molecular cloning, protein purification and biophysical characterisation.

### A-level Exams: A\*A\*AA

Surabaya Cambridge School, Indonesia, 2018 - 2020

Mathematics, Physics, Biology, Chemistry

## Experience

### Characterising the Importance of the Intrinsically Disordered Region of IRE1 Luminal Domain on IRE1 Oligomerization

University of Leeds

October 2023 - Present

Investigating the importance of specific sequences in IRE1 intrinsically disordered region on its oligomerisation induced by small peptide  $\Delta$ Esp and BiP + ATP.

### Investigating HIV-1 Nef Hijacking of Cell Machinery for Pathogenesis

[DETAILS](#)

University of Leeds

October 2022 - March 2023

Studied Nef's function in HIV-1 by exploring its involvement in CD4 downregulation and interactions with Hck-SH3 protein utilising biophysical methods.

### Unfolding Protein Response: A Promising Breast Cancer Therapy

[DETAILS](#)

University of Leeds

October 2022 - May 2023

Reviewed the use of UPR-targeting drugs to treat multiple Breast Cancer cell lines either to sensitise chemoresistant breast cancer cells to chemotherapy or proposing the therapeutic potential of standalone UPR inhibitors for TNBC cells.

### GFP Gene Expression and EGFP Protein Purification

[DETAILS](#)

University of Leeds

October 2021 - November 2021

Genetically modified E. coli (DH5 $\alpha$ ) cells to express the GFP gene by ligating the pET28c expression vector with GFP DNA, purified, and analyzed for EGFP protein expression in BL21(DE3) E. coli cells using western blot.

## Additional Experience

[DETAILS](#)

### FBS Student Engagement Intern: International Position

University of Leeds

2023 - Present

Organising student-led events and hosting activities for 200+ participants; working with the Student Support and Employability Team to promote inclusivity within the community; addressing enquiries.

### Academic Tutor

Freelance

2021 - 2023

Assisting struggling middle and elementary school students to better understand ideas and their applications in science.

### Global Community Committee

University of Leeds

2020 - 2021

Designing and collaborating on monthly newsletters; organising social gatherings and prized game events.

### Retail Associate Apprentice

PT. Lion Super Indo

2018

Assisting in daily store operations and goods restocking.



[clarissediandra.github.io](https://clarissediandra.github.io)



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## Certificates & Awards

[DETAILS](#)

### Mass Spectrometry Job Simulation

Certificate

2024

Thermo Fisher Scientific

- Understanding Mass Spectrometry in Context of International Sport
- How Mass Spectrometry Works

### Genetic Sciences Job Simulation

Certificate

2024

Thermo Fisher Scientific

- Understanding Real-time PCR for Diagnostics
- How to Find and Analyze Data

### Dean's List

Award

2021, 2022

Faculty of Biological Sciences

University of Leeds

### Dean's Excellence Scholarship

Award

2020, 2021, 2022

Faculty of Biological Sciences

University of Leeds

## Skills

- Laboratory Health & Safety
- Experimental Design & Organisation
- Sample Preparation
- Protein Expression & Purification
- Bioinformatics
- Molecular Biology Techniques
- Data Analysis
- Troubleshooting & Optimisation
- Spectroscopy
- Mass photometry
- Enzyme Assays
- SDS-PAGE

## Languages

- Bahasa Indonesia *native*
- English *full professional proficiency*
- Javanese *full professional proficiency*
- Mandarin *limited working proficiency*

## Hobbies

- Painting & 3D drawing
- Travelling
- Photography