

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 ΔEsp 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 (DH5α) 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.



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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