

Informed Consent

Evaluating the Effectiveness of Genomics & Science DOJO 3.0 Learning Methods in Improving Research Skills and Scientific Writing Among Researchers in Indonesia: A Randomised Controlled Trial

Read this information carefully or ask someone to read it to you. You will receive a copy of this form to keep. Before deciding to participate in this study, you may discuss your participation with anyone you feel comfortable with. Please ask the researchers' team if you find any part you do not understand, they will be happy to explain. If you agree to participate, you will be asked to sign the Informed Consent Form.

A. Background

Scientific writing quality and critical thinking are essential skills for producing high quality research. However, developing these skills remains a challenge for several Indonesian researchers, especially in the context of structured, practice-based training that promotes in depth analysis.

Genomics & Science DOJO 3.0 is a training program designed to address this need through an intensive learning approach that combines online sessions (Shinjitsu Class) and face-to-face training in the form of a minicamp. This program adopts the principle of Shinjitsu (pursuit of truth), emphasizing critical thinking, open discussion, and evidence-based argumentation in understanding and producing scientific knowledge.

Unlike conventional training, this Genomics & Science DOJO 3.0 program encourages active interaction between the participants and facilitators, providing structured mentoring in genomic analysis and scientific writing toward publication in reputable journals. However, the effectiveness of this learning method in improving scientific writing skills and critical thinking has not been evaluated systematically.

Therefore, the Summit Institute for Development (SUMMIT) collaborates with both national and international partners to conduct a study to assess the effectiveness of Genomics & Science DOJO 3.0 learning method among researchers in Indonesia using a Randomised Controlled Trial (RCT) design.

B. Program Objectives

This study aims to evaluate the effectiveness of the Genomics & Science DOJO 3.0 learning method in improving research skills and scientific writing among researchers in Indonesia. In order to achieve this, the design study is a Randomized Controlled Trial (RCT) design with a quantitative approach. Participants are randomly assigned to one of two groups: the intervention group (DOJO) and the control group (Non-DOJO), enabling causal conclusions to be drawn about the impact of the DOJO method.

Evaluation is conducted by comparing changes across several dimensions of participant ability, including critical thinking, knowledge, data analysis skills, self-empowerment, and the quality of manuscripts and teaching. Through this design, the study aims to assess the contribution of the DOJO learning method to improvements in these areas by comparing outcomes between groups.

C. Participant Eligibility

The criteria of participants:

1. The team consists of 2 different individuals, though they do not need to be from the same institution.
2. Must hold at least a Bachelor's degree (S1).

096/UN18.F8/ETIK/2026 (Protocol Number: UNRAM0850526), NCT07607301

Last update: 11 June 2026



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3. Must have a strong interest in research related to Genomics, Medicine, Biomedicine, Biology, or Public Health (limited to human-related topics).
4. Must be committed to full participation in the DOJO program, including availability to attend all required sessions without scheduling conflicts, supported by an official invitation letter from DOJO for leave/permission purposes. Failure to meet this commitment will result in sanctions.
5. The first author must be willing and committed to attend all activities in the DOJO Program if selected.
6. Must currently be involved in active research or have completed research with sufficient data to develop into a publishable scientific journal article.
7. Must be in the process of preparing a scientific manuscript or have a clear and measurable intention to produce a manuscript based on their research during the program.
8. Must have adequate English proficiency to read, write, and communicate effectively in an academic environment (minimum TOEFL score of 550 or IELTS 5.5, or equivalent).
9. Must be willing to actively participate in all program activities, and complete assigned tasks and deliverables.
10. Must have a basic understanding of scientific writing principles and manuscript format.
11. Prior experience or exposure to academic publication is an advantage.
12. Must have basic knowledge of molecular biology and sequencing.

D. Voluntary Participation

This program is conducted as part of a research study to evaluate and compare various educational training approaches, including the DOJO methodology, in supporting participant learning, skill development, and research outcomes. By agreeing to participate, you consent to being enrolled as a participant in this study.

Participants may be placed into different program groups through a random allocation process. All groups will receive equal access to training activities, mentoring, research resources, and publication support, even though the learning approach or delivery format may differ.

Participants are expected to attend scheduled activities and complete all questionnaires, tests, or assessments before, during, and after the program to measure learning progress and program effectiveness. As part of program implementation evaluation, activity sessions may be documented through audio recordings, photographs, or video for quality monitoring, implementation consistency, and research analysis purposes. All information collected will be kept confidential and used solely for research purposes.

Participation in this study is entirely voluntary. You have the right to decline participation or withdraw from the study at any time. Applicants are encouraged to join only if they can commit to the full program schedule. Participants wishing to withdraw are encouraged to notify the research team as early as possible.

E. Procedures

This research design is implemented through several systematic stages:

Selection and Randomisation:

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1. Multi stage selection: Participants undergo administrative screening (Stage 1), research concept/concept note assessment (Stage 2), and background/CV assessment (Stage 3).
2. Stratification: Participants are grouped based on baseline test results and research stage to ensure even distribution of variables among classes.
3. Baseline Balance: After manual or logical grouping, statistical tests (Chi-square) are conducted to ensure no significant differences exist between groups before the intervention begins.

Data Collection

1. Baseline (Pre-test): Measure initial levels of knowledge, analytical skills, and scientific communication before intervention.
2. Monitoring Process: Observation during minicamp, mentoring sessions, and debate sessions will be implemented to ensure the content delivery from the mentor or sensei between the two groups is consistent.
3. Endline (Post-test): Re-measurement using the same instruments as baseline to assess capacity changes after the program finished.

Impact Analysis

1. Gain Score: Analysis is conducted by calculating the difference between pre-test and post-test scores.
2. Comparative Testing: Analysis of Covariance (ANCOVA) is used as the primary statistical analysis, with an Independent t-test to compare Gain Scores between the DOJO and Non-DOJO groups.
3. Effect Size: Cohen's d is used to measure the magnitude of the intervention's impact, ranging from small to large.

F. Duration of Participation

The participation period runs from data collection through the completion of analysis. The research team may contact you for clarification or follow-up if needed.

G. Benefits and Risks

Benefits:

The subject in this research is the researchers selected for the program. Benefits include:

- Technical Capacity Development: Participants receive intensive training in bioinformatics, genomics, and data analysis through curated materials.
- Enhanced Critical Thinking: Through the Shinjitsu methodology (structured scientific debate), participants are trained to sharpen their logic and scientific argumentation.
- Scientific Writing Quality: Participants receive support in improving the quality of their manuscript drafts for publication in reputable journals.
- Personal Empowerment: Builds researchers' confidence in managing research projects and communicating within the global scientific community.
- Scientific Networking: Builds connections with fellow researchers and expert mentors (Senseis) in their fields.

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Risks:

- Psychological Risks and Discomfort: The Shinjitsu methodology (structured debate) and physical activities such as Ninja Run may trigger mental pressure, feelings of inadequacy, or physical fatigue in participants.
- Stratification and Randomization (Equity Issue): Given the RCT design, the control group (Non-DOJO) may feel disadvantaged by not receiving the same "innovative" learning experience as the intervention group.

H. Confidentiality

All personal information will be kept confidential. All data and samples collected will be assigned unique codes and will not include the name or any information that can identify the participant directly. Research results will be published in aggregate form without mentioning individual names or personal identities.

I. Right to Refuse or Withdraw

You have the right to refuse participation or withdraw from the study at any time, without reason and without consequence. If you withdraw, all unanalysed data will be destroyed in accordance with established procedures.

J. Data Storage and Use for Future Research

If you consent, your data may be retained for use in future research that has received approval from the Research Ethics Committee.

K. Contact Information

If there is additional information on this research, the participant will be contacted. If you have any questions, you may raise them now or at a later time. To submit questions at a later time, please contact the Summit Institute for Development Secretariat at:


Telephone Number : (0370) 7709190

Address : Jl Sultan Hasanuddin No 137B Lingkungan Karang Jero, Kelurahan Karang Taliwang, Kota Mataram

Study Contact : Lia Rosida, S. Pd., M.Dev. St

Mobile Phone Number : 0877-6568-0206

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	<h2 style="text-align: center;">Informed Consent</h2> <p style="text-align: center;">“Evaluating the Effectiveness of Genomics & Science DOJO 3.0 Learning Methods in Improving Research Skills and Scientific Writing Among Researchers in Indonesia: A Randomised Controlled Trial”</p>
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DATA COLLECTION CONSENT FORM

PARTICIPANT RESPONDENT

I, the undersigned:

Participant Name	
Team Code	
Address	
Date of Birth	
Phone Number	

Hereby declare that I have received an explanation in a research study entitled: **"Evaluating the Effectiveness of Genomics & Science DOJO 3.0 Learning Methods in Improving Research Skills and Scientific Writing Among Researchers in Indonesia: A Randomised Controlled Trial"**, and all my questions have been answered satisfactorily. I am willing to participate voluntarily and provide data for the purposes of the study.

<p style="text-align: center;">Respondent</p> <p style="text-align: center;">_____.____/____/____</p> <p style="text-align: center;">(_____)</p> <p style="text-align: center;">Full name</p>	<p style="text-align: center;">Witness</p> <p style="text-align: center;">_____.____/____/____</p> <p style="text-align: center;">(_____)</p> <p style="text-align: center;">Full name</p>
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