

## CURRICULUM VITAE



### PERSONAL DATA

Name : Prof. Dr. Hadi Suwono, M.Si.  
Place and date of birth : Pati, 15 Mei 1967  
Department and Faculty : Department of Biology  
Faculty of Mathematics and Natural Sciences  
University address : Universitas Negeri Malang (State University of Malang)  
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### EXPERTISE

Biology education

### TEACHING EXPERIENCE

No.	Subject
1.	Research Methodology
2.	Education Research methodology
3.	Assessment and Evaluation
4.	Science Assessment
5.	Qualitative Research
6.	Curriculum Development
7.	Research Dissemination
8.	Transformative learning

## RESEARCH PROJECT (2018-2022)

Research	Year
1. Developing transdisciplinary biology curriculum and teaching for 21st century students (2021)	2021
2. Greenovation: STEM learning project for senior high school in supporting sustainability (2020-2021)	2021
3. Evolution Theory Acceptance Model (ETAM) Reconciliation and Acceptance of Evolution Theory Through Critical Teaching of Science-Religion Relations	2021
4. The effect of metacognitive-driven constructivist model on critical thinking ability, problem solving, creative thinking, retention and cognitive learning outcomes of secondary school students	2021
5. Development of four-tier diagnostic test instruments based on google forms to identify misconceptions regarding immune, vaccine and physiological regulations	2021
6. Development of electronic module of viruses and bacteria based on three-tier diagnostic tests as an effort to overcome misconceptions and growing capabilities of the 21st century of high school students in learning biology during the covid-19 pandemic	2021
7. The effect of flipped classroom problem-based learning (Fc-PBL) on information literature and biological problem-solving skills of secondary school students	2021
8. STEM-PjBL biomimicry to improve problem-solving skills, creative thinking and career planning	2021
9. STEM learning (science, technology, engineering, and mathematic) at school: systematic review	2020
10. Development of global socio-scientific decision-making questionnaire: factor analysis of socio-scientific decision making skills of students	2020
11. The effect of analytical thinking infusion in biology learning on student decision making, entrepreneurship skills, trans-discipliner thinking, and good citizenship.	2020
12. Misconceptions In Biology: portrait, contributing factors, and effort to overcome them	2020

## PUBLICATION (2021-2022)

1. Husamah, H., Suwono, H., Nur, H., and Dharmawan A. (2022). Sustainable development research in Eurasia Journal of Mathematics , Science and Technology Education : A systematic literature review. *EURASIA Journal of Mathematics, Science*

and Technology Education, 18(5). <https://doi.org/10.29333/ejmste/11965>

2. Kurniati, E., Suwono, H., Ibrohim, I., Suryadi, A., & Saefi, M. (2022). International Scientific Collaboration and Research Topics on STEM Education: A Systematic Review. *Eurasia Journal of Mathematics, Science and Technology Education, 18*(4), em2095. <https://doi.org/10.29333/ejmste/11903>
3. Suwono, Hadi, Rofiah, D., Saefi, M., & Fachrunnisa, R. (2021). Interactive socio-scientific inquiry for promoting scientific literacy, enhance biological knowledge, and developing critical thinking. *Journal of Biological Education, 00*(00), 1–15. <https://doi.org/10.1080/00219266.2021.2006270>.
4. Suwono, H., Maulidia, L., Saefi, M., Kusairi, S., & Yuenyong, C. (2022). The Development and Validation of an Instrument of Prospective Science Teachers' Perceptions of Scientific Literacy. *EURASIA Journal of Mathematics, Science and Technology Education, 18*(1), 1–16. <https://doi.org/https://doi.org/10.29333/ejmste/11505>
5. Suwono, Hadi, Permana, T., Saefi, M., & Fachrunnisa, R. (2021). The problem-based learning (PBL) of biology for promoting health literacy in secondary school students. *Journal of Biological Education, 00*(00), 1–15. <https://doi.org/10.1080/00219266.2021.1884586>
6. Suwono, Hadi, Prasetyo, T. I., Lestari, U., Lukiati, B., Fachrunnisa, R., Kusairi, S., Saefi, M., Fauzi, A., & Atho'illah, M. F. (2021). Cell Biology Diagnostic Test (CBD-Test) portrays pre-service teacher misconceptions about biology cell. *Journal of Biological Education, 55*(1), 82–105. <https://doi.org/10.1080/00219266.2019.1643765>
7. Dewi, I. S., Hastuti, U. S., Lestari, U., & Suwono, H. (2020). Local wisdom and

#### **CONFERENCE PROCEEDING (2021)**

- Ahmada, R. F., Suwono, H., & Fachrunnisa, R. (2021). Development scientific literacy through STEM project in biology classroom: A mixed method analysis. *AIP Conference Proceedings, 2330*(March). <https://doi.org/10.1063/5.0043260>
- Anisa, S. I. P., Suwono, H., & Fachrunnisa, R. (2021). Entrepreneurship skills on visible creative thinking skills framework: A problem-solving idea in biology learning process. *AIP Conference Proceedings, 2330*(March). <https://doi.org/10.1063/5.0043264>
- Arsih, Fitri, Zubaidah, S., Suwono, H., & Gofur, A. (2021). The implementation of RANDAI to improve pre-service biology teachers' communication skills. *AIP Conference Proceedings, 2330*(March). <https://doi.org/10.1063/5.0043166>
- Ashari, R. M. R., Suwono, H., & Fachrunnisa, R. (2021). Students HOTS in PjBL based STEM learning in biology classroom: An experimental analysis. *AIP Conference Proceedings, 2330*(March). <https://doi.org/10.1063/5.0043256>
- Buroidah, H., Suwono, H., & Fachrunnisa, R. (2021). Cultivating character as good citizen through problem solving infusion. *AIP Conference Proceedings, 2330*(March). <https://doi.org/10.1063/5.0043265>
- Mawarni, A. I., Suwono, H., & Fachrunnisa, R. (2021). Adaptability in biology classroom:

A metacognitive discourse. *AIP Conference Proceedings*, 2330(March).  
<https://doi.org/10.1063/5.0043258>

- Naovalia, R., Amin, M., & Suwono, H. (2021). The effectiveness of research-based learning improves student arguments about genetic codes and genetic mutations. *AIP Conference Proceedings*, 2330(March). <https://doi.org/10.1063/5.0043447>
- Putri, V. A., Suwono, H., & Lukiati, B. (2021). Major domain of socioscientific decision making: Preliminary questionnaire development. *AIP Conference Proceedings*, 2330(March). <https://doi.org/10.1063/5.0043263>
- Suciari, N. K. D., Lbrohim, L., & Suwono, H. (2021). The impact of PjBL integrated STEAM on students' communication skills and concept mastery in high school biology learning. *AIP Conference Proceedings*, 2330(March).  
<https://doi.org/10.1063/5.0043395>
- Sukma, D. T., Suwono, H., & Fachrunnisa, R. (2021). Student's rationality in decision making on infusion of analytical thinking skill's framework in biology learning. *AIP Conference Proceedings*, 2330(March). <https://doi.org/10.1063/5.0043262>
- Zakiah, R. N., Ibrohim, I., & Suwono, H. (2021). The influence of science, technology, engineering, mathematic (STEM) based biology learning through inquiry learning models towards students' critical thinking skills and mastery of biological concepts. *AIP Conference Proceedings*, 2330. <https://doi.org/10.1063/5.0043361>
- Ariyati, E., Susilo, H., Suwono, H., & Rohman, F. (2020). Habits of mind potency of

#### **MANAGERIAL EXPERIENCE:**


1. Head of Department of Biology, Universitas Negeri Malang (2015-2019)
2. Dean Faculty of Mathematics and Natural Sciences, Universitas Negeri Malang (2018-2022)
3. Director of Association of Indonesian Biology Education Program (2016-2018)
4. Secretary-General of the National Cooperation Network of Science and Mathematics Higher Education Institutions, Indonesia (2020-2022).

#### **EDUCATION ADVISER:**

<b>Project name</b>	<b>Funding</b>	<b>Year</b>
1. Science Education Quality Improvement Project	GTZ / GIZ	1997-2003
2. Managing Basic Education	USAID	2004-2007
3. Mainstreaming Good Practices in Basic Education	UNICEF	2007
4. Learning Assistance Program for Islamic School	AUSAID	2008-2009
5. Basic Education Sector Capacity Support Program -	ADB	2010

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| 6. Decentralized Basic Education   | USAID | 2010-2011 |
| 7. PRIORITAS ( <i>Prioritizing Reform, Innovation, and Opportunities for Reaching Indonesia's Teachers</i> ) | USAID | 2012-2015 |

Malang, 20 May 2022



Prof. Dr. Hadi Suwono, M.Si