



RIDWAN DIAGUNA

PhD Student in Genetics, Molecular and Cellular Biology

University of Pavia, Italy – ridwan.diaguna@unipv.it

January 27, 1991 Bogor – Indonesia

Project Tittle

Priming-induced DDR signatures contributing to heat stress tolerance

Supervisor : Professor Alma Balestrazzi

Co-Supervisor/Reviewer : Professor Anca Macovei

Education

2024 - 2025 **Research Student in Plant Molecular Biology, Shizuoka University, Japan** -

MEXT Scholarship 2024 – 2025

Project title: Transcription factor of IDD4 and functional analysis of interacting factor BOI in *Arabidopsis thaliana* seed germination

Supervisor: Akiko Kozaki

2015 - 2018 **Master of Science (MSc) in Seed Science and Technology, Bogor Agricultural University, Indonesia** 3.85/4.00

The Ministry of Research, Technology and Higher Education, The Republic of Indonesia Scholarship (BPPDN PTN-B) 2015 – 2017

Project title: Development of testing method for salinity tolerance at germination stage of rice

Supervisor : Dr. Faiza C Suwarno

Co-supervisor : Professor Memen Surahman
Dr. Suwarno

2010 - 2014 **Bachelor of Science in Agrotechnology, University of Bangka Belitung, Indonesia** 3.53/4.00

Bangka Selatan Regency Government Scholarship “Generasi Menasional” 2010 – 2014

Project tittle: Application of Merapin leaf (*Rhodamnia cinerea*) extract in inhibiting the growth of *Colletotrichum capsica* on chilli seeds

Supervisor : Dr. Ismed Inonu

Co-supervisor : Dr. Riwan Kusmiadi

Journal articles

1. Putri Mian Hairani, **Ridwan Diaguna**, Nurul Afifah. 2025. Glucose content, viability and vigor of four cucumber seed lots. International Journal of Agricultural Technology. 21(5): 1745-1752.
2. Dirgahani Putri, Ade Sumiahadi, Yukarie Ayu Wulandari, Rosdiana, Sularno, Helfi Gustia, **Ridwan Diaguna**, Yeni Nurazizah, Paldi Saputra. 2025. Characterization of introduction tomato (*Lycopersicum esculentum* Mill.) agronomic characters for breeding the high-yield tomato. Jurnal AGROSAINS dan TEKNOLOGI. 10(1): 54-60.
3. Bahroin Idris Tampubolon, Bramada Winiar Putra, **Ridwan Diaguna**, Raudya Zahra

- Maulania, Nadia Mayla Faiza, Muhammad Farhan, Choirul Anam, Daffafauzan, Andira Shafa Tuffahati, Dinda Azraini, Auralia Fikri Insani, Febriana Nur Aulia, Made Naradhara Ayuko Natih, Diva Kaila Syafitri, Akbar Hermawan, Sagita Salsabila. 2025. Improving the quality and productivity of sweet potatoes through the implementation of good agricultural practices principles in integrated agricultural training in Purwasari village, Bogor. *Agrokreatif: Jurnal Ilmiah Pengabdian kepada Masyarakat*. 11(2): 403-411.
4. Yeni Silvia, **Ridwan Diaguna**, Sofyan Zaman, Mohamad Rahmad Suhartanto. 2024. Weeds and soil seed bank as components of oilpalm plantations diversity in North Sumatera – Indonesia. *Journal of Stored Product Research*. [under review]. [CA].
 5. Emir Aqsa, **Ridwan Diaguna**, Mohamad Rahmad Suhartanto. Optimizing seed size of sweet corn in varieties (Arinta IPB and Verona IPB) to improve the physiological quality. 2024. *Journal Agrosains and Technology. Jurnal AGROSAINS dan TEKNOLOGI* 9(2): 70 -79. [CA].
 6. **Ridwan Diaguna**, Eny Widajati, Okti Syah Isyani Permatasari, Mohamad Rahmad Suhartanto, Punjung Medaraji Suwarno, Candra Budiman, Alfian Ramadhani Saroza, Husni Fuad. 2024. Radicle emergence test method for estimating sorghum seeds quality: A tropics practice. *Journal of Stored Products Research*. 105 (102263):1-7. DOI: 10.1016/j.jspr.2024.102263. [FA, CA].
 7. Anita Rahmasari Rahman, Maryati Sari, **Ridwan Diaguna**. 2024. Increasing the Storability of Soybean (*Glycine max* L.) Seed through Seed Treatment in the Inter Storage Period. *Bul. Agrohorti*. 12(2): 207-215.
 8. Candra Budiman, Farina Nurhasanah, Satriyas Ilyas, Abdul Qadir, Endah Retno Palupi, Ahmad Zamzami, **Ridwan Diaguna**. 2024. Development of a Rapid Vigor Test Method for Long Bean (*Vigna sinensis* L.) Seeds through Radicle Emergence using Digital Image Processing. *Journal of Indonesian Horticulture* 15(1): 42 - 48.
 9. Edi Santosa, Syaiful Anwar, Arief Hartono, Gatot Pramuhadi, **Ridwan Diaguna**, Sofyan Zaman. 2024. Estimation of Carbon Footprint in Cassava Cultivation from Various Doses of NPK Fertilizer and Soil Organic Carbon. *Agronomy Bulletin* 12(2): 166 - 174.
 10. Suwarto, Gani Nurrazaq, Amal I, Harahap SAN, **Ridwan Diaguna**. 2024. Growth and yield of cassava in low fertility latosol soil with various doses of NPK fertilizer. *Australian Journal of Crop Science*. 18(10): 613-619.
 11. Abdul Qadir, Mohamad Rahmad Suhartanto, Eny Widajati, Candra Budiman, Ahmad Zamzami, Astryani Rosyad, **Ridwan Diaguna**. 2024. Commercial rice seed production and distribution in Indonesia. *Heliyon*. 10 (e25110): 1-10. DOI: 10.1016/j.heliyon.2024.e25110.
 12. **Ridwan Diaguna**, Edi Santosa, Ni Made Armini, Trikoesoemaningtyas, Sobir, Didy Sopandie, Eny Widajati. 2024. Plant Characters and Production of Three Taro Cultivars by Different Organic Dose. *Journal of Agrotek Tropika*. 12(1): 1-11. [FA, CA].
 13. Sukrianto, Dian Diani Tanjung, **Ridwan Diaguna**. 2023. Perception and Preference of Ornamental Plant Farmers towards the Use of Leaf Gloss: Case study of Depok Municipality. *Proceedings of the National Research Seminar of LPPM UMJ* 1(1): 1 - 10.
 14. **Ridwan Diaguna**, Edi Santosa, Candra Budiman. 2023. Taro corm type effect on morphology deterioration and growth vigor storage. *International Journal of Agronomy*. 2023(1): 1-6. [FA, CA].
 15. Suwarto, **Ridwan Diaguna**, Edi Santosa, Arief Hartono, Gatot Pramuhadi, Nunung Nuryartono. 2023. Analysis of NPK nutrient content and the nutrient balance of cassava for sustainable highproductivity in Ultisols soil. *Australian Journal of Crop Science*. 17(2): 206-214.

16. Eny Widajati, M Syukur, **Ridwan Diaguna**, Okti Syah Isyani Permatasari, Arya Widura Ritonga, Zulfikar Damaralam Sahid, Gagad Restu Pratiwi, Andi Nadia Nurul Lathifa Hatta. 2023. Morpho- physiological seed diversity and viability of Indonesian cowpea (*Vigna unguiculata*). *Biodiversity Journal of Biological Diversity*. 24(10): 5319-5327.
17. Delvi Maretta, Iis Helianti, Edi Santosa, **Ridwan Diaguna**, Purwono, Sobir. 2023. Glucomannan content stability of eddoe taro tuber based on parametric, non-parametric, and ammi analysis. *Sains Malaysiana*. 52(11): 3135 - 3145.
18. MA Arrofi, Candra Budiman, **Ridwan Diaguna**. 2023. Development of vigor test with radicle emergence in eggplant (*Solanum melongena* L.) seeds using digital image processing. *Agrohorti Bulletin* 11(3): 435 - 443.
19. Hielga Bariq Rosyadita, Ahmad Zamzami, **Ridwan Diaguna**. 2023. Selection of Soybean Seed (*Glycine max* L.) and the relationship between seed size and seed quality. *Journal of Agrosience and Technology* 8(1): 1 - 10.
20. Putri Mian Hairani, Sigit Sudjatmiko, N Setyowati, **Ridwan Diaguna**, Windy Triyostin. 2023. Effect of fruit color on the physiological and biochemical quality of chili seeds (*Capsicum frutescens*). *International Journal of Agricultural Technology* 19(6): 2465 - 2476.
21. **Ridwan Diaguna**, Suwanto, Edi Santosa, Arief Hartono, Gatot Pramuhadi, Nunung Nuryartono, Roza Yusfiandayani, Tri Prartono. 2022. Morphological and Physiological Characterization of Cassava Genotypes on Dry Land of Ultisol Soil in Indonesia. *International Journal of Agronomy*. 2022(1): 1-11. [FA, CA].
22. **Ridwan Diaguna**, Edi Santosa, Candra Budiman, Ahmad Zamzami, Okti Syah Isyani Permatasari, Aldi Kamal Wijaya. 2022. Organic manure fertilization effect on growth and yield of taro "Talas Sutra". *Journal of Agrosains and Technology*. 7(1): 35-42. [FA, CA].
23. **Ridwan Diaguna**, Okti Syah Isyani Permatasari, Candra Budiman, Ahmad Zamzami, Vincent Arman, Joni Aba, Flora Itoni Naomi. 2022. Online Participatory Training for Sorghum Farmers in Ende Regency, East Nusa Tenggara. *Agrocreative Journal*. 8(1): 113-119. [FA, CA].
24. Inonu I, Apriyadi A, **Diaguna R**, Rinaldi M. 2019. Soil ameliorant in Post-Tin Mining Land of Bangka Island for Pepper Growth. *Advances in Engineering Research*, 167, 104-108.

Books

1. Asep Setiawan, Megayani Sri Rahayu, **Ridwan Diaguna**, Wahyu Qomarah W. 2024. Pengantar Produksi Benih: Legislasi Perbenihan di Indonesia dan Teori Produksi Benih Bermutu dengan Pendekatan Konvensional dan Bioteknologi. [Introduction to seed production: Seed legislation in Indonesia and theory for production of high-quality seed in conventional and biotechnology approach]. Yogyakarta – Indonesia: Lily Publisher.
2. Edi Santosa, Didy Sopandie, Dini Dinarty, Delvi Maretta, Lutfy Ditya Cahyanti, Dhika Prita Hapsari, **Ridwan Diaguna**, Ahmad Fadli Alghifari. 2024. Potensi Talas sebagai Super Food: Adaptasi Perubahan Iklim, Budidaya dan Ekonomi Sirkular. [Potency of Taro as a Super Food: Climate Change Adaptation, Production Technology and Circular Economy]. Bogor - Indonesia: IPB Press.

Patents and Copyrights

1. Cassava Planting Methods to Increase Productivity. [Patents]. Registration Number: S002022000703. [January 27, 2022]. National Patent.
2. IPB Prima-Cassava Standard Operating Procedure. [Copyright]. Application Number: EC00202207125 [January 29, 2022]. National Copyright.

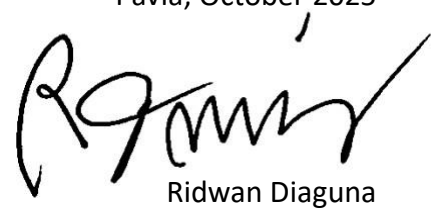
Research interest

My research focuses on seed science and technology, plant molecular biology and agricultural policy analysis, with emphasis on improving seed systems, crop productivity and stress tolerance.

Declare

All data that I fill in and listed in this curriculum vitae is true and can be legally accounted for. If in the future it turns out that there is a discrepancy with reality, I am willing to accept sanctions. Thus, I make this curriculum vitae with truth.

Pavia, October 2025

A handwritten signature in black ink, appearing to read 'Ridwan Diagona', with a stylized flourish at the end.

Ridwan Diagona