



Ruby A. Paylangco

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Field of specialization: Zoology (Parasitology; Environmental Health)

Educational background:

- Master of Science (MSc.) in Zoology. University of the Philippines - Los Baños, Laguna, Philippines
- Bachelor of Science (BSc.) in Biology. Caraga State University, Butuan City, Philippines

Research involvements:

- *Project staff.* Surveillance of snail-borne diseases under wetland ecosystem gradients in Agusan Marsh wildlife sanctuary, Philippines: Implications to human health (SWEAM2Health). Approved project, implementing agency, CSU and DOST-NRCP. Implementation by January, 2025.
- *Research supervisor.* Butuan City Solid Waste Assessment and Characterization Study (WACS) 2018.
- *Laboratory assistant.* Applying novel nucleic acid surveillance to malaria elimination in South Cotabato in Mindanao, The Philippines. Funded by Gates Foundation through the Malaria Elimination Scientific Alliance (MESA) in Barcelona, Spain. May 2014 to Sept 2015. Collaboration between the London School of Hygiene & Tropical Medicine, the Nanyang Technological University in Singapore and the University of the Philippines Los Baños.
- *Laboratory assistant.* Development of effective management strategies for low-cost/organic production systems through the identification and analysis of the microbial flora and parasite fauna of the Philippine native swine. Funded by Department of Agriculture – Bureau of Agricultural Research. June 2015 – 2017. Collaboration between Institute of Biological Sciences and the Department of Veterinary Para-clinical Sciences in the University of the Philippines - Los Baños

Publications, and some trainings, workshops and seminars attended

- **Abao-Paylangco, R.** & Paller, VG. 2024. (*Accepted, on-going final revision*). Parasite contamination and the farmer's knowledge, attitude and practices in selected backyard native swine farms in Quezon province, Philippines.
- LA Estaño, JM Rocero, AM Calub-Madria, **R Abao-Paylangco** (2024). Prevalence of intestinal parasites of native swine in backyard farming in selected barangays in Talacogon, Agusan del Sur, Philippines. *International Journal of Agricultural Technology*, 20(5):1857-1872.
- Arianne Kim Aniñon, **Ruby Paylangco** (2024). Detection of *Neoechinorhynchus* sp. (Acanthocephala: Neoechinorhynchidae) in the Gut of Wild Nile Tilapia (*Oreochromis niloticus*, L.) from Lake Mainit, Caraga, Philippines. *Annals of Studies in Science and Humanities*, 5(1):10-17.
- Cuaresma, D. C. N., Soliguin, B. P. U., Japitana, R. A., **Abao-Paylangco, R. A.**, & Coladilla, J. O. (2016). Systems analysis and modelling of pollution loading for management of Calumpang River in Batangas City, Philippines. *International Journal of Environmental and Rural Development*, 7(2), 134-140.
- Paglinawan, R. J., **Paylangco, R.**, Paylangco, J. C., Along, A., & Almadin, F. J. (2022). Association of size structure, diet composition, endo-parasites of Snakehead fish (*Channa striata*, Bloch), in Lake Mainit, Caraga Region, Philippines. *Southeastern Philippines Journal of Research and Development*, 27(2), 1-22.
- **Abao-Paylangco, R.**, Balamad, M. K., Paylangco, J. C., Japitana, R., & Jumawan, J. (2019). *Schistosoma japonicum* (Katsurada 1904) in Selected Rice Fields Surrounding Lake Mainit, Philippines. *Journal of Ecosystem Science and Eco-governance*, 1(1), 15-24.
- **Abao-Paylangco, R.**, & Nepa, R. M. (2021). Zoonotic parasites of brown rats in selected ricefields surrounding Lake Mainit, Philippines. *Journal of Ecosystem Science and Eco-Governance*, 3(1), 50-59.
- Villahermosa, K. C., Estaño, L., Calagui, L., & **Paylangco, R.** (2022). Acanthocephalan and Trematode Endoparasites in Rabbitfish *Siganus fuscescens* from the Selected Coastal Areas of Surigao City, Surigao del Norte, Philippines. *Journal of Ecosystem Science and Eco-Governance*, 4(2), 1-7.
- Resource person, "Training workshop on parasitological techniques for snail and bovines – associated diseases, CSU. January 22-23, 2020.
- Oral presenter, "GUT PARASITES WITH NOTES ON DIET COMPOSITION OF RABBITFISH, *Siganus fuscescens* (Houttuyn, 1782) FROM SELECTED COASTAL AREAS OF BAROBO, SURIGAO DEL SUR, PHILIPPINES", 3rd International Biodiversity Conference on October 24-26, 2024, held at Honey's Hotel, City of Mati, Davao Oriental
- Participant, "Training course on quantitative and spatial parasitology: applications in epidemiology and ecology", UPLB. July 1-5, 2019.
- Participant, "Basic research methods training cum research proposal development writeshop", Grand Palace, Butuan City. June 3-5, 2019.
- Oral presenter, "The 4th University Consortium Graduate Forum (UCGF) SEARCA SEAMEO", Indonesia. September 18-19, 2018.
- Resource person, "Common laboratory techniques and waste disposal training", FSUU. June 30, 2018.
- Participant, "Statistical training for MSCRC study consultants", CSU. January 30-31, 2018.
- Resource person, "4-Day training course: Capacity building on practical approach in teaching science thru the conduct of field and laboratory works", CSU. 25-22 November 2017
- Trainer, "Lecture-workshop on basic animal parasitology: Capacity building on collection, isolation and identification of parasites", USM. January 19-20 2017.
- Participant, "Short training course on molecular diagnosis of parasites", University of Malaya, in Kuala Lumpur, Malaysia. October 19 – 29, 2015.

- Oral Presenter, “7th ASEAN Congress of Tropical Medicine and Parasitology”, Indonesia. May 17 – 19, 2016.

Creative Works/ Scholarly Works (ongoing publication)

- Workbooks/ laboratory manuals in Zoology, Microbiology & Parasitology, Evolutionary Biology, Anatomy & Physiology

Participation to Service-oriented Project and Advocacy Initiatives in the Community/ Extension Activities

- Capacitate Local and Indigenous Community in Barangay Pagatpatan for the Formulation of Localized Herbal Medicine -Phase 1: September 23, 2022.
- Capacitate Local and Indigenous Community in Pagatpatan for the Formulation of Localized Herbal Medicine - Phase 2: December 7, 2023.
- Instructional Materials Production Assisting Community Teachers, Year 2023-2024

Involvement in Professional Organization

- THE PHILIPPINE SOCIETY OF PARASITOLOGY, INC.
- THE MALACOLOGICAL SOCIETY OF THE PHILIPPINES, INC.
- ASSOCIATION OF SYSTEMATIC BIOLOGISTS OF THE PHILIPPINES
- PHILIPPINE ASSOCIATION OF MARINE SCIENCE
- UPLB ENVIRONMENTAL SCIENCE SOCIETY
- BIOLOGY TEACHERS’ ASSOCIATION OF THE PHILIPPINES (BIOTA)

Awards and Recognition

- Publication award, "Zoonotic parasites of brown rats in selected ricefields surrounding Lake Mainit, Philippines", 28 June 2022.
- Publication award, "*Schistosoma japonicum* in selected ricefields surrounding Lake Mainit, Philippines", 2020.
- 3rd Place (1ST poster entry), "Parasites in Bivalves from the selected Littoral Zones of Lake Mainit, Philippines", during the Health Research Poster Exhibit Contest during the 2020 Virtual Caraga Health Research Forum, 27 November 2020.
- 2nd Place (2nd poster entry), "A School-based programs on soil-transmitted helminth infection ten selected elementary schools in Butuan City, Philippines", during the Health Research Poster Exhibit Contest during the 2020 Virtual Caraga Health Research Forum, 27 November 2020.
- Best paper, 2019 ARCHERS "Host-parasite relationship among cane toads (*Rhinella marina*) and Chinese edible frog (*Hoplobatrachus rugulosus*) with notes on diet composition in selected Barangays in Butuan City, Agusan del Norte, Philippines".
- Best Poster, "Internal Parasites in Bivalves from Selected Barangays in Lake Mainit, Jabonga, Agusan del Norte, Philippines". Agusan Marsh Platinum Anniversary National Conference, Almont Inland Resort, Butuan City, 12 November 2019.
- Best paper, "Prevalence of *Schistosoma* in selected ricefield surrounding Lake Mainit, Philippines", during the Caraga Health Research Forum, 5-6 November 2019.
- Best paper, "Prevalence of parasitic helminths between edible and invasive species of anurans from selected agricultural areas in Caraga region, Philippines", during the 1st Caraga Health Research Forum at VCDU hotel convention, 3 Dec 2018.
- 3rd Place, Technical Poster Presentation during the Accelerated Science and Technology Human Resource Development Program (ASTHRDP) Graduate Scholars’ Conference – Year 7 ("Big date for big science"), 18-19 June 2018.