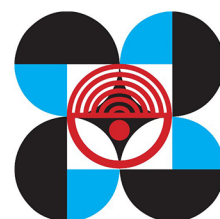


Specialized Philippine Enterprise Reference of Experts and Scientists (SPHERES)

INFORMATION RESOURCES AND ANALYSIS DIVISION
Science and Technology Information Institute
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Gen. Santos Ave., Bicutan, Taguig City, Philippines



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Name Amado A. Angeles

Gender Male

Organizational Affiliations

Assistant Professor, College of Agriculture, University of the Philippines Los Baños, Laguna, Philippines

Education

Post-Doctoral on Phage Display, University of Illinois, Chicago, U.S.A. 2015

Doctor of Philosophy in Biochemistry (Major Field), Cognates: Animal Science and Molecular Biology, Nutritional Biochemistry, University of the Philippines Los Baños, Laguna, Philippines 2012

Master of Science in Biochemistry, University of the Philippines Los Baños, Laguna, Philippines 2007

Bachelor of Science in Animal Science, University of the Philippines Los Baños, Laguna, Philippines 1995

Fields of Specialization

Nutritional Biochemistry

Animal Science

Molecular Biology

Agriculture

Animal Nutrition

Biochemistry

Protein Chemistry

Ruminant Nutrition

Rumen Biotechnology

Employment

Assistant Professor, University of the Philippines Los Baños, 2010-Present

Animal Nutritionist, San Miguel Corporation, 2001 January-2002 December

Animal Nutritionist, Purerfoods Corporation, 1995 June-2000 December

Papers Presented

2015 October Angeles, A.A., Manalaysay, J.B., Santos, A.T., De Leon, R.C., & Tuaño, A.P.P. (2015 October). *In vitro* duodenal enzyme activity assays and protein profiling as feed evaluation method, 52nd PSAS Scientific Seminar and Annual Convention.

Publications

- 2016 Aguirre, A.T.A., Quimio, J.M.U.P.H., Carandang, N.F., Cordoves, R.K.C., Agbisit, E.M., Jr., & Angeles, A.A., Growth Performance and Carcass Characteristics of Broiler Chickens and Growing-Finishing Pigs Fed Diets with Corn-Soya Replacer Meal. *Philippine Journal of Veterinary and Animal Sciences*, 2016, 42(1):59-67.
- Santos, A.T., Manalaysay, J.B., De Leon, R.C., Tuaño, A.P.P., Valientes, R.A., & Angeles, A.A., *In vitro* duodenal enzyme activity assays and protein profiling as feed evaluation method. *Philippine Journal of Veterinary and Animal Sciences*, 2016, 42(1):68-76.
- 2015 Aguirre, A.T.A., Acda, S.P., Angeles, A.A., Oliveros, M.C.R., Merca, F.E., & Cruz, F.A., Effect of Bovine Lactoferrin on Growth Performance and Intestinal Histologic Features of Broilers. *Philippine Journal of Veterinary and Animal Sciences*, 2015, 41(1):12-20.
- Rendon, M.D.M., Acda, S.P., Magpantay, V.A., Fajardo, N.N., & Angeles, A.A., Essential Oil Blend Containing Capsaicin, Carvacrol, and Cinnamaldehyde in Broiler Production Performance and Intestinal Morphometrics. *World Academy of Science, Engineering and Technology, International Journal of Biological, Biomolecular, Agricultural, Food and Biotechnological Engineering*, 2015, 9(12):1214-1217.
- 2014 Aditia, M., Sunarso, Sevilla, C.C., & Angeles, A.A., Growth performance and mineral status on goats (*Capra hircus* Linn.) supplemented with zinc proteinate and selenium yeast. *International Journal of Science and Engineering*, 2014, 7(2):124-129.
- Nugroho, D., Sunarso, Sevilla, C.C., & Angeles, A.A., The Effects of Dietary Neutral Detergent Fiber Ratio from Forage and Concentrate on The Dietary Rumen Degradability and Growth Performance of Philippine Native Goats (*Capra hircus* Linn.). *International Journal of Science and Engineering*, 2014, 6(1):75-80.
- Angeles, E.P., Acda, S.P., Roxas, N.P., Angeles, A.A., Luis, E.S., & Merca, F.E., Naturally-Occurring Plant Extracts as Performance Enhancer in Broilers. *Philippine Journal of Veterinary and Animal Sciences*, 2014, 37(2):111-118.
- Angeles, A.A., & Decena, K.S., Effects of Feeding Acacia (*Samanea saman* (Jacq.) Merr.) Pod Meal on Growth Performance of Heifers and In Vitro Rumen Fluid Methane and Carbon Dioxide Production in Rumen-Cannulated Cattle. *Philippine Journal of Veterinary and Animal Sciences*, 2014, 40(1):69-78.
- Karimi, A.H., Acda, S.P., Capitan, S.S., Laurena, A.C., Tambalo, F.Z., Angeles, A.A., Loresco, M.M., Aychocho, I.O., & Sevilla, C.C., In Situ Cattle Rumen Degradability of Urea-Molasses and Cellulase Treated Rice Straw. *Annual Research & Review in Biology*, 2014, 4(22):3420-3428.
- Abdolhamid, K., Laurena, A.C., Acda, S.P., Capitan, S.S., Tambalo, F.Z., Angeles, A.A., Yebron, M.G.N., Banayo, J.B., & Sevilla, C.C., Rumen bacterial diversity in Philippine native cattle (*Bos primigenius* Bojanus) fed

- cellulase treated rice straw. *Research Opinions in Animal and Veterinary Sciences*, 2014, 4(7):398-404 ref.32.
- 2013 Nugroho, D., Sevilla, C.C., Angeles, A.A., & Sunarso, The Effects of Dietary Neutral Detergent Fiber Ratio on the Rumen Degradability and Growth Performance of Philippine Native Goats (*Capra hircus* Linn.). *Indonesian Journal of Animal and Veterinary Sciences*, 2013, 18(4):291-300.
- Angeles, A.A., Torres, A.D., & Raquipo, J.M.B., Changes in Bacterial Diversity in the Rumen of Cattle fed Ripe Acacia [*Samanea saman* (Jacq.) Merr.] Pods. *Philippine Journal of Veterinary and Animal Sciences*, 2013, 39(1):11-20.
- 2012 Britanico, E.B., Merca, F.E., Angeles, A.A., Acda, S.P., & Luis, E.S., Effects of Supplementing Diets with Amino Acid Chelates of Copper, Zinc, Manganese and Iron on the Performance of Broilers. *Philippine Journal of Veterinary and Animal Sciences*, 2012, 38(1):1-10.
- 2009 Angeles, A.A., Merca, F.E., Librojo-Basilio, N., Roxas, N.P., & Cruz, F.A., Growth inhibition of pathogenic bacteria by lactoferrin pepsin hydrolysate fractions from milk of carabao (*Bubalus bubalis* L.). *Philippine Journal of Veterinary and Animal Sciences*, 2009, 35(1):15-26.
- 2008 Angeles, A.A., Merca, F.E., & Roxas, N.P., Isolation and Characterization of Lactoferrin from Carabao's (*Bubalus bubalis* L.) Milk Whey. *Philippine Journal of Veterinary and Animal Sciences*, 2008, 34(1):43-54.

Name Juancho B. Balatibat

Gender Male

Organizational Affiliations

Assistant Professor, Department of Forest Biological Sciences, College of Forestry and Natural Resources, University of the Philippines Los Baños, Laguna, Philippines

Education

Master of Science in Entomology, University of the Philippines Los Baños, Laguna, Philippines 1991

Bachelor of Science in Agriculture, University of the Philippines Los Baños, Laguna, Philippines 1981

Fields of Specialization

Entomology

Wildlife Studies

Zoology

Biodiversity

Association Membership

Junior Adviser of MASIG, UP Alpha Sigma Fraternity

Honors / Awards

UPLB Centennial Professorial Chair Lecture Award, University of the Philippines Los Baños 2015 July 30

Outstanding Teacher Award, College of Forestry and Natural Resources, University of the Philippines Los Baños 2009

Best Poster Paper Award, for *Quadrastichus erythrinae* Kim, "black sheep" of the Family Eulopidae and an invasive wasp galling and killing dapdap trees (Lit, I.L.Jr., JB Balatibat, AM Palijon), 37th Annual Convention of the PMCP 2006 May

Researches

Completed

Resource inventory and assessment of biodiversity in the Subic Bay Metropolitan Authority (SBMA)

Publications

2016 Malabrigo, P.L., Jr., Umali, A.G.A., Tiburan, C.L., Jr., Pampolina, N.M., Balatibat, J.B., Tinio, C.E., Abaloso, W.P., Luna, A.C., & Boncodin, J.C., Tree Diversity and Stand Structure of Permanent Biodiversity Monitoring Area in Mount Makiling. *Asian Journal of Biodiversity*, 2016, 7(1):18-31.

- 2015 Castillo, L.A., Lapitan, L.G., Balatibat, J.B., Castillo, M.L., & Bantayan, N.C., Spatial Distribution of Kalantas (*Toona calantas* Merr. & Rolfe) in the Molawin-Dampalit Watershed, Mount Makiling Forest Reserve, Philippines. *Ecosystems and Development Journal*, 2015, 5(3):33-42.
- Ong, B.K.C., Paller, V.G.V., de Guia, A.P.O., Balatibat, J.B., & Gonzalez, J.C.T., Prevalence of avian haemosporidians among understorey birds of Mt. Banahaw de Lucban, Philippines. *Raffles Bulletin of Zoology*, 2015, 63:279-286.
- 2014 Gestiada, E.C., Castillo, M.L., Balatibat, J.B., & Bantayan, N.C., Butterfly species diversity and habitat heterogeneity across altitudinal gradients of Mt. Banahaw de Majayjay, Philippines. *Ecosystems and Development Journal*, 2014, 5:3-10.
- Guevarra, D.M., Florece, L.M., & Balatibat, J.B., Anthropogenic Activities Affecting the Growth and Survival of *Bauhinia malabarica* Roxb. in the Grasslands of Nueva Ecija, Philippines. *Ecosystems & Development Journal*, 2014, 4(2):28-37.
- 2013 Pascual, J.N., Luna, A.C., & Balatibat, J.B., Comparative diversity of ground-dwelling ants (*Hymenoptera:Formicidae*) in two permanent plots in Makiling Forest Reserve, Los Baños, Laguna, Philippines. *Transactions of the National Academy of Science and Technology*, 2013, 35(1):64.
- 2009 Herrera, K.J.M., Luna, A.C., & Balatibat, J.B., Effects of forest gaps on foliage insect diversity in the permanent field laboratory areas (PFLAS) in Mt. Makiling Forest Reserve. *Transactions of the National Academy of Science and Technology*, 2009, 31(1):39-40.
- Buena, E.R.L., Luna, A.C., & Balatibat, J.B., Survey and census of ground lizards in the permanent field laboratory areas (PFLAS) in Mt. Makiling forest reserve. *Transactions of the National Academy of Science and Technology*, 2009, 31(1):97.
- 2008 Balatibat, J.B., Wildlife diversity studies and conservation efforts in the Philippines. *Forest Science and Technology*, 2008, 4(1):1-4.
- 2006 Lit, I.L., Jr., Balatibat, J.B., & Palijon, A.M., *Quadrastichus erythrinae* Kim (*Hymenoptera: eulopidae*), a new invasive pest infesting, galling and killing dapdap trees (*Erythrina* spp.) in the Philippines. *Transactions of the National Academy of Science and Technology*, 2006, 28(1).
- 1996 Balatibat, J.B., Peras, J.R., Jumawid, R.J.J., & Fernando, E.S., Bamboo-roosting bats (*Tylonycteris*, *Vespertilionidae*) in the Subic Bay Forest Reserve, Philippines. *Asian International Journal of Life Sciences*, 1996, 5(2):107-112.

Name Lolita Jagudilla Bulalacao

Gender Female

Organizational Affiliations

Scientist II, National Museum, P. Burgos Street, Manila

Education

Doctor of Philosophy in Biological Science, University of Santo Tomas, Manila, Philippines 1984

Master of Science in Biological Science, University of Santo Tomas, Manila, Philippines 1974

Fields of Specialization

Biology

Pollen Flora of the Philippines

Employment

Dean, University of Perpetual Help Rizal, 1987-1988

Part-time Faculty (Microbiology), University of Perpetual Help Rizal, 1975

Association Membership

Regular Member, National Research Council of the Philippines

Honors / Awards

Kawayan Award as an Outstanding Citizen of Las Piñas City for Science and Technology, Las Piñas City 2000

Community Leader of Las Piñas City, Rohm and Haas Philippines 2000

Award for Leadership and Professional Excellence, University of Perpetual Help Rizal 2000

Conferred Scientist, Scientific Career System 1991

Researches

Completed

Writing and publishing the book, Pollen Flora of the Philippines

A basic ecological and socio economic survey of Manarigo river Barangay Talon 3, Las Piñas City

Comparative pollen calendars from the Philippines: Baguio and Manila

Production of High-Grade Pollen and Allergen Characterization and Biological Potency Determination of Three Selected Pollen

Establishment of the Calaca Science Centrum for the BCFPP Batangas Coal-Fired Power Plant in Calaca, Batangas

Publications

- 2000 Bulalacao, L.J., Pollen grains, a forest tree genetic resource. *Arti Facts*, 2000, 2(8).
- 1999 Bulalacao, L.J., Guide on the cultivation and management practices of allergy crops. NRCP, Bicutan, Taguig, Metro Manila (Book), 1999.
Bulalacao, L.J., Biological Science (The Study of Life). LDS Printmakers, Manila (Book), 1999.
Bulalacao, L.J., Rice culture in the Philippines: Crystallized in the National Museum Collections. *Proc., Workshop on Rice in the Filipino Culture*, 09 N 1999, 1999.
Bulalacao, L.J., Pollen analysis of Laguna de Bay, Luzon. National Institute of Geological Sciences' Research Symposium, UPD, 1999.
Bulalacao, L.J., A dean's impression of two Japanese Universities. *Metro Asia Digest*, 1999, 1(2):10.
Ward, J.V., & Bulalacao, L.J., Pollen analysis of Laguna de Bay, Luzon. *National Museum Papers*, 1999, 9:1-26.
- 1998 Bulalacao, L.J., Mathematical methods as applied to Biology. University of Perpetual Help Rizal Faculty Journal. Pamplona, Las Piñas City, 1998.
- 1997 Bulalacao, L.J., Pollen morphology and taxonomy of Philippine gymnospermae and angiospermae. *National Museum Papers*, 1997, 7(11):55-64.
Bulalacao, L.J., Pollen Flora of the Philippines: Volume 1. National Museum, Philippines and National Research Council of the Philippines - Department of Science and Technology TAPI-SPU, Manila, RFG Casa Imprenta, Manila, 1997.
Bulalacao, L.J., Sexual Life of Flowers. *Green Thumb Monitor*, Inc, 1997:14-15.
- 1995 Van Welzen, P.C., Bulalacao, L.J., & Tran Van On, A taxonomic revision of the Malesian genus *Trigonopleura* Hook.f. (Euphorbiaceae). *BLUMEA*, 1995, 40:363-374.
- 1994 Bulalacao, L.J., A First look at Philippine Trees. Tahanan Books for Young Readers, 1994.
Bulalacao, L.J., A First look at Philippine Flowers. Tahanan Books for Young Readers, 1994.
Bulalacao, L.J., A First look at Philippine Fruits. Tahanan Books for Young Readers, 1994.
Bulalacao, L.J., Recognizing allergy-provoking plants in Las Piñas. *National Museum Papers*, 1994, 4(2):78-83.
- 1992 Bulalacao, L.J., & Tran Van On, A taxonomic revision of the Malesian genus *trigonopleura* Hook.f.. *National Museum Papers*, 1992, 3(2):67-78.
- 1991 Bulalacao, L.J., Fossil pollen in Quaternary sediments of Quezon, Palawan. *National Museum Papers*, 1991, 2(2):37-49.
- 1990 Bulalacao, L.J., Pollen morphology of the Leguminosae. *National Museum Papers*, 1990, 1(2):66-95.

- 1987 Bulalacao, L.J., A palynological study of the Late Quaternary Sediments from Quezon, Palawan. Proceedings of the XII International INQUA Congress Programme with Abstracts, 1987.
- 1986 Madulid, D.A., & Bulalacao, L.J., Philippine National Herbarium News. Botany Division, National Museum, 1986.
- 1985 Bulalacao, L.J., Pollen grains causing inhalant allergy. Acta Medica Philippina, 1985, 21(2):67-73.
 Bulalacao, L.J., Pollen survey in Baguio city in 1984. Acta Medica Philippina, 1985, 21(2):51-53.
 Bulalacao, L.J., Comparison of pollen assemblages at different heights of sampling. Acta Medica Philippina, 1985, 23(3):140-143.
 Bulalacao, L.J., Polen at Alerhiya. NRCP Pabatid Agham, 1985, I(5):1-32.
- 1983 Bulalacao, L.J., Scanning electron microscopy studies of some pollen grains with allergenic properties. The Philippine BIOTA Journal, 1983, XV(3):4-7.
 Bulalacao, L.J., Seasonal variation in the modern pollen rain of Metro Manila and its relationship to allergy. Saligang Saliksik, NRCP Selected Annual Reports, 1983:135-230.

Name Estelita G. Cabalfin

Gender Female

Organizational Affiliations

Retired Scientist III, PNRI-DOST, Commonwealth Ave., Quezon City

Fields of Specialization

Radiation Processing

Radiopharmaceutical Production

Radioimmunoassay

High Dose Dosimetry

Radioisotope

Employment

PNRI Consultant, Philippine Nuclear Research Institute, 2007

Officer-in-Charge, Nuclear Services and Training Division, Philippine Nuclear Research Institute, 2004-2006

Association Membership

Regular Member, National Research Council of the Philippines

Honors / Awards

Conferred Scientist III, Scientific Career System 1991 December 19

Trainings

2005 FNCA Workshop on Human Resources Development, Vietnam 2005 September 13

Application on the Code of Conduct on the Safety of Research Reactors, United States of America 2004 September 13

National Workshop on Design Basis Threat, Philippine Nuclear Research Institute 2004 April 27

Application of Electron Accelerators, Malaysia 2003 August 18

Seminar/Workshop on Safety Culture, Philippine Nuclear Research Institute 2002 November 19

Seminar on Food Safety: What is the Future of Irradiated Foods, Los Baños, Laguna 2002 July 5

National Training Course on PET-Cyclotron Applications in Medicine, St. Luke's Medical Center, Philippines 2002 March 18

FNCA Workshop on Application of Electron Accelerator, Japan 2002 January 28

Nuclear Administrators, Japan 2001 January 30

Project Design, China 1999 June 28

Project Formulation Meeting and Workshop to Develop Detailed Plans for Clean and Energy Efficient Production Processes , Malaysia 1998 November 16

Radiation Processing, Hungary 1998 September 4

Final Research Coordination Meeting on Standardized Methods to Verify Absorbed Dose in Fresh and Dried Fruits, Tree Nuts in Trade, Portugal 1998 March 30

Utilization of Research Reactors (Sub Workshop on Radioisotope Production) , Indonesia 1997 November 6

Seminar on Nuclear Power, Manila 1996 January 26

Researches

Completed

Development of Process Control for Irradiation of Fresh Mangoes

Establishment of a Large-Scale Gamma Irradiation Facility

Large-Scale Gamma Irradiation Services

Technological Innovation Commercialization Program: Radiation Processing for Philippine Industries

Upgrading the Gamma Irradiation Facility

Papers Presented

2008 December 8-12 Lanuza, L.G., Cabalfin, E.G., Solomon, H.M., Borrás, M.T.L., Osorio, R.G., & Kovacs, A.V. (2008 December 8-12). The Role of Dosimetry in the Operational Qualification of the Semi-Commercial Facility, 36th Atomic Energy Week Celebration, Philippine Nuclear Research Institute, Diliman, Quezon City.

2008 December 8-12 Lanuza, L.G., Cabalfin, E.G., Maningas, A.L., Madera, G.G., Jr., Pares, F.A., Pancho, F.S., Jr., Valenzuela, A.R., Tranquilan, G.O., & Villanueva, C.P. (2008 December 8-12). Upgrading of the Gamma Irradiation Facility from a Pilot-Scale to a Semi-Commercial Facility, 36th Atomic Energy Week Celebration, Philippine Nuclear Research Institute, Diliman, Quezon City.

2006 August 27-31 Lanuza, L.G., Pares, F.A., & Cabalfin, E.G. (2006 August 27-31). Gafchromic Dosimetry: The Philippine Experience, 11th Tihany Symposium on Radiation Chemistry.

2005 November 14-18 Cabalfin, E.G., & Lanuza, L.G. (2005 November 14-18). Prospects of Radiation Treatment of Wastewater in the Philippines, FNCA 2005 Workshop on Application of Electron Accelerator, Daejeon, Korea.

- 2005 August Sombrito, E.Z., Cabalfin, E.G., Calix, V.S., Dela Rosa, A.M., Borrás, M.T.L., & Bulos, A.d.M. (2005 August). A Draft Business Plan for the Production of PZC ^{99}Mo - $^{99\text{m}}\text{Tc}$ Generator in the Philippines, 2005 FNCA Workshop on the Utilization of Research Reactors, Malaysia.
- 2004 September 6-10 Cabalfin, E.G. (2004 September 6-10). Prospects of Electron Beam Treatment of Flue Gases in the Philippines, FNCA 2004 Workshop on Application of Electron Accelerator - EB Treatment of Flue Gases, Beijing, China.
- 2003 August 18-22 Cabalfin, E.G. (2003 August 18-22). Radiation Processing of Thin Films in the Philippines, FNCA 2003 Workshop on Application of Electron Accelerator-Radiation System for Thin Film, Kuala Lumpur, Malaysia.
- 2002 December 16-20 Cabalfin, E.G. (2002 December 16-20). Status of Radiation Treatment of Liquid Samples in the Philippines, Forum for Nuclear Cooperation in Asia (FNCA) 2002 Workshop on Application of Electron Accelerator for Liquid Samples. Takasaki, Japan.
- 2002 January 27 - February 2 Cabalfin, E.G. (2002 January 27 - February 2). Utilization of Electron Accelerator in the Philippines, Forum for Nuclear Cooperation in Asia (FNCA) Workshop on Application of Electron Accelerator. Takasaki, Japan.
- 2001 January 29 - February 10 Cabalfin, E.G. (2001 January 29 - February 10). Promotion of Nuclear Technology Applications in the Philippines, 14th Seminar for Nuclear Administrators. Tokyo, Japan.
- 1998 December 8 Cabalfin, E.G. (1998 December 8). Radiation Processing: The Alternative Technology for Sterilization and Decontamination, Atomic Energy Week Technical Session. PNRI.
- 1998 November 16-20 Cabalfin, E.G. (1998 November 16-20). Radiation Processing in the Philippines, Project Formulation Meeting/Workshop on Clean and Energy-Efficient Production Processes. Kuala Lumpur, Malaysia.
- 1998 November 2-5 Lanuza, L.G., Cabalfin, E.G., Kojima, T., & Tachibana, H. (1998 November 2-5). Dose Intercomparison Study Involving Fricke, Ethanol Chlorobenzene, PMMA and Alanine Dosimeters, International Symposium on Techniques for High-Dose Dosimetry in Industry, Agriculture and Medicine. Vienna, Austria.
- 1998 August 29 - September 3 Cabalfin, E.G., Lanuza, L.G., Maningas, A.L., & Solomon, H.M. (1998 August 29 - September 3). Process Control and Dosimetry in a Multipurpose Irradiation Facility, Ninth Tihany Symposium on Radiation Chemistry. Tata, Hungary.
- 1998 March 30 - April 3 Cabalfin, E.G., Lanuza, L.G., Maningas, A.L., Solomon, H.M., Madera, G.G., & Pares, F.A. (1998 March 30 - April 3). Development of Process Control for Fresh Mangoes, Final Research Coordination Meeting on Standardized Methods to Verify Adsorbed Dose in Fresh and Dried Fruits, Tree Nuts in Trade. Lisbon, Portugal.

- 1997 December 8-12 Cabalfin, E.G., Lanuza, L.G., Solomon, H.M., Maningas, A.Z., Madera, G.G., Jr., & Pares, F.A. (1997 December 8-12). Dose Distribution Studies in Irradiated Fresh Mangoes for Quarantine Treatment, Atomic Energy Week, Philippine Nuclear Research Institute.
- 1997 November 10-13 Cabalfin, E.G. (1997 November 10-13). Development of Radioisotope Production in the Philippines, Workshop on the Utilization of Research Reactors, Bandung, Indonesia.
- 1996 December 10-12 Cabalfin, E.G., & Dela Rosa, A.M. (1996 December 10-12). Radiation Processing: A Versatile Technology for Industry, 2nd Philippine Nuclear Congress. Manila Midtown Hotel, Philippines.
- 1996 December 11-16 Cabalfin, E.G. (1996 December 11-16). Achievements in Radiation Technology, Fourth National Coordinators Meeting for Radiation Technology. Takasaki, Japan.
- 1996 August 5-9 Cabalfin, E.G., Lanuza, L.G., Maningas, A.L., Solomon, H.M., & Manoto, E.C. (1996 August 5-9). Development of Process Control for the Irradiation of Fresh Mangoes, Second Research Coordination Meeting on Standardized Methods to Verify Absorbed Dose in Fresh and Dried Fruits, Tree Nuts in Trade. Karlsruhe, Germany.
- 1995 December 11-16 Cabalfin, E.G. (1995 December 11-16). Status of Radiation Technology in the Philippines, Third Meeting of National Coordinators for Radiation Technology. Bangkok, Thailand.
- 1995 January 23-27 Cabalfin, E.G. (1995 January 23-27). Radioisotope Production in the Philippines, Workshop of Technical Cooperation Counterparts in the Field of Radioisotope Production in the Asia and Pacific Region. Dalat, Vietnam.

Publications

- 2004 Cabalfin, E.G., Radiation Processing of Thin Films in The Philippines. Proceedings of the FNCA 2003 Workshop on Application of Electron Accelerator-Radiation System for Thin Film, Kuala Lumpur, Malaysia, August 18-22, 2003, JAERI - Conf 2004- 007, June 2004, 2004:153-155.
Cabalfin, E.G., Radiation Processing of Thin Films in the Philippines. Proceedings of the FNCA 2003 Workshop on Application of Electron Accelerator-Radiation System for Thin Film, Kuala Lumpur, Malaysia, August 18-22, 2003, JAERI - Conf 2004- 007, June 2004, 2004.
- 2003 Cabalfin, E.G., Utilization of Electron Accelerator in the Philippines. Proceedings of the FNCA Workshop on Application of Electron Accelerator, January 28 - February 1, 2002, Takasaki, Japan, JAERI-Conf 2002-013, February 2003, 2003.
Cabalfin, E.G., Status of Radiation Treatment of Liquid Samples in the Philippines. Proceedings of the FNCA 2002 Workshop on Application of Electron Accelerator - Radiation System for Liquid Samples, 16 - 20 December 2002, Takasaki, Japan, JAERI-Conf 2003-016, October 2003, 2003.

- 2001 Cabalfin, E.G., Food irradiation for food safety and security. S&T POST, 2001, XIX(3):2.
Cabalfin, E.G., Lanuza, L.G., Maningas, A.L., Solomon, H.M., Madera, G.G., Jr., & Pares, F.A., Development of Process Control for the Irradiation of Fresh Mangoes. Proceedings: Final Research Coordination Meeting on Standardized Methods to Verify Absorbed Dose in Irradiated Food for Insect Control, 2001.
- 1998 Lanuza, L.G., Villamater, D.T., Cabalfin, E.G., Maningas, A.L., Lanuza, & Solomon, H.M., Innovations to increase throughput of the multipurpose irradiation facility. Philippines Nuclear Journal: A publication of the Philippine Atomic Energy Commission, 1998, 12:1-5.
- 1989 Cabalfin, E.G., Lanuza, L.G., & Villamater, D.T., Dose mapping of the multipurpose gamma irradiation facility. Philippines Nuclear Journal: A publication of the Philippine Atomic Energy Commission, 1989, 6:415-429.
- 1987 Navarro, Q.O., & Cabalfin, E.G., Nuclear Techniques for Agriculture and Industrial Development. The Nucleus, 1987, 25(1).
- 1986 Eugenio, A.D., & Cabalfin, E.G., Experiences with Technetium-99-m production. The Nucleus, 1986, 24(1):44-47.
Cabalfin, E.G., Lugto, M.C.P., Mendoza, L.F., Nodora, N.J., Perez, A.S., Villadolid, R.P., & Eugenio, A.D., Technetium-99-m sulfur colloid kit: its preparation and quality control. The Nucleus, 1986, 24(1):75-79.
- 1976 Lumba, L.G., Lanuza, L.G., Villamater, D.T., & Cabalfin, E.G., Granular mixing studies with $^{69}\text{Zn}^m$. Philippines Nuclear Journal: A publication of the Philippine Atomic Energy Commission, 1976, 4(1):282-291.

Name **Andres Tomas L. Dans**

Gender Male

Organizational Affiliations

Assistant Professor, Department of Forest Biological Sciences, College of Forestry and Natural Resources, University of the Philippines Los Baños, Laguna, Philippines

Education

Master of Science in Zoology, University of the Philippines Los Baños, Laguna, Philippines 1988

Bachelor of Science in Zoology, University of the Philippines Los Baños, Laguna, Philippines 1981

Fields of Specialization

Biodiversity Conservation

Mammalogy

Morpho-Anatomy

Vertebrate Physiology

Vertebrate Systematics

Wildlife Inventory

Wildlife Ecology

Zoogeography

Papers Presented

- 1998 Alviola, P.A., Gonzalez, J.C.T., Dans, A.T.L., Afuang, L., & Dimapilis, A.B. (1998). Herpetofauna of Puerto Galera, Mindoro Island, Philippines, 5th Annual Meeting of the Wildlife Conservation Society of the Philippines.
- 1998 Gonzalez, J.C.T., & Dans, A.T.L. (1998). Birds and Mammals of Fragmented Forests in the Anahawin River, Mts. Iglit-Baco National Park, Mindoro Island, Philippines, 5th Annual Meeting of the Wildlife Conservation Society of the Philippines.
- 1998 Ocampo, C.H., Dans, A.T.L., Gonzalez, J.C.T., Alviola, P.A., & Dimapilis, A.B. (1998). Mammalian Fauna of Mount Malasimbo, Puerto Galera, Oriental Mindoro, Philippines, 5th Annual Meeting of the Wildlife Conservation Society of the Philippines.
- 1997 Gonzalez, J.C.T., & Dans, A.T.L. (1997). Status of Minasawa Island Bird Sanctuary and Game refuge and the conservation of Polillo islands, Philippines, 4th Annual Meeting of the Wildlife Conservation Society of the Philippines.

Publications

- 2010 Dans, A.T.L., & Gonzalez, J.C.T., Birds and mammals of Mount Banahaw de Tayabas, Luzon Island, Philippines with notes on their distribution along elevational gradients. *Asia Life Sciences*, 2010, Supplement:161-202.
- Dans, A.T.L., A tribute to the Professor's Professor - In Memoriam: Prof. Pedro Lagapa Alviola III, 09 April 1948 - 24 May 2007. *Asia Life Sciences*, 2010, Supplement(April 2010):1-5.
- 2005 Sajise, P.E., Ticsay, M.V., Gruezo, W.SM., Gonzalez, J.C.T., Dans, A.T., Francisco, H.A., Torres, C.S., Vergara, D.K., & Velasco, V., Biodiversity in the Mount Makiling Forest Reserve, Laguna, Luzon. In: Dove, M.R., P.E. Sajise and A. Doolittle (eds.) *Conserving Nature in Culture: Case Studies from Southeast Asia*. Yale Southeast Asia Program. Yale University, 2005.
- 2002 Paguntalan, L.M.J., Gonzalez, J.C.T., Gadiana, M.J.C., Dolino, C.N., Carino, A., Pedregosa, M.dG., & Dans, A.T.L., Birds of Ban-Ban, Central Negros, Philippines: threats and conservation status. *Siliman Journal*, 2002, 43(1):110-136.
- 2000 Vergara, B.S., Idowu, P.M., Sumangil, J.H., Gonzalez, J.C., & Dans, A., *Interesting Philippine animals*. National Academy of Science and Technology. Bicutan, Taguig City, Philippines, 2000.
- 1999 Gonzalez, J.C.T., & Dans, A.T.L., Birds and mammals of the fragmented forests along the Anahawin River, Mt. Iglit-Baco National Park, Mindoro Island, Philippines. *Sylvatrop The Technical Journal of Philippine Ecosystem and Natural Resources*, 1999, 8(1-2):43-61.
- 1998 Ocampo, C.C., Gonzalez, J.C.T., Dans, A.T.L., Alviola, P.A., & Dimapilis, A.B., Mammalian fauna of Mt. Malasimbo, Puerto Galera, Oriental Mindoro, Mindoro Island, Philippines. *Sylvatrop The Technical Journal of Philippine Ecosystem and Natural Resources*, 1998, 8(1-2):79-85.
- Alviola, P.A., Gonzalez, J.C.T., Dans, A.T.L., Afuang, L.E., & Dimapilis, A.B., Herpetofauna of Puerto Galera, Mindoro Island, Philippines. *Sylvatrop The Technical Journal of Philippine Ecosystem and Natural Resources*, 1998, 8(1-2):86-93.
- Gonzalez, J.C.T., & Dans, A.T.L., Status of Minasawa Island Bird Sanctuary and Game refuge and the conservation of Polillo islands, Philippines. *Sylvatrop, the technical journal of Philippine ecosystems and natural resources*, 1998, 7(1-2).
- Gonzalez, J.C.T., & Dans, A.T.L., Terrestrial Fauna of Mt. Makiling Forest Reserve, Laguna, Philippines. In: *The Conditions of Biodiversity Maintenance in Asia: The Policy Linkages between Environmental Conservation & Sustainable Development*. Southeast Asian Universities Agroecosystems Network, East-West Center Program in the Environment. John D. and Cat, 1998.
- Heaney, L.H., Balete, D.S., Dolar, L.S., Alcala, A.C., Dans, A.T.L., Gonzalez, P.C., Ingle, N., Lepiten, Oliver, W.L.R., Ong, P.S., Rickart, E.A., Tabaranza,

- B.R., Jr., & Utzurrum, R.C.B., A Synopsis of the Mammalian Fauna of the Philippine Islands. Fieldiana Zoology. New Series, 1998.
- 1997 Gonzalez, J.C.T., & Dans, A.T.L., Ecology and Distribution of Vertebrate Fauna of Mount Makiling Forest Reserve. In: Dove, M.R. and Sajise, P.E., The Conditions of Biodiversity Maintenance in Asia: The Policy Linkages between Environmental Conservation and Sustainable Development. East-West Center, Hawaii, 1997.
- Heaney, L.H., Balete, D.S., & Dans, A.T.L., Terrestrial Mammals. In: Philippine Red Data Book by the Wildlife Conservation Society of the Philippines, Bookmark Inc., Makati City, Philippines, 1997.
- 1994 Gonzalez, J.C.T., & Dans, A.T.L., Microhabitats of Endemic Diminutive Frogs and Skinks in Mount Makiling Forest Reserve, Luzon, Philippines. Asia Life Sciences, 1994, 3(2):232-246.
- 1993 Baril, J.A., Dans, A.T.L., & Afuang, L.E., Mt. Makiling Wildlife Biodiversity Project. Philippine Biodiversity, 1993, II(1):20.
- Dans, A.T.L., Population Estimate and Captive Behavior of the Palawan Tree Shrew, *Tupaia palawanensis* (Scandentia, Tupaiidae). Asia Life Sciences, 1993, II(II):201-214.

Name Juan R. Francisco

Gender Male

Education

Doctor of Philosophy in Sanskrit, University of Madras, Chennai, India

Fields of Specialization

Indology

Sanskrit

Anthropology

Honors / Awards

Elected Member, Board of Trustees, Wesleyan University, Cabanatuan City, Nueva Ecija 2005-2009

Researches

Completed

Issues on Pre-Colonial Philippine Culture and Society

Publications

- 2005 Francisco, J.R., The Social Responsibility of the University. MINDAyawan Journal of Culture and Society, 2005, 2(1):1-8.
- Francisco, J.R., Bhinneka Tunggal Eka: The Development of a National Language in the Philippines. MINDAyawan Journal of Culture and Society, 2005, 2(1):61-84.
- Francisco, J.R., College/University Teaching: Challenges and Expectations. MINDAyawan Journal of Culture and Society, 2005, 1(Special):9-19.
- Francisco, J.R., Research and Publication: Two Desiderata in the Enhancement of Quality Graduate Education. MINDAyawan Journal of Culture and Society, 2005, 2(1):20-44.
- Francisco, J.R., Philippine Society and Culture: Mechanisms for Strengthening National Consciousness and Unity. MINDAyawan Journal of Culture and Society, 2005, 2(1):45-60.
- Francisco, J.R., Indigenous Learning Systems: The Philippines. MINDAyawan Journal of Culture and Society, 2005, 2(1):94-110.
- Francisco, J.R., Some Notes on the English Language in the Philippines. MINDAyawan Journal of Culture and Society, 2005, 2(1):85-93.
- Francisco, J.R., Indigenous Learning Systems: A Review of Literature. MINDAyawan Journal of Culture and Society, 2005, 2(1):111-143.
- Francisco, J.R., Intercultural Encounter in a Frontier Area: The Case of the Public School Teacher and an Ethnic Minority. MINDAyawan Journal of Culture and Society, 2005, 2(1):144-160.

- Francisco, J.R., Ethnographic Survey of the Higaunon in the Border Areas of Agusan, Bukidnon and Misamis Oriental. *MINDAYAWAN Journal of Culture and Society*, 2005, 2(1):161-193.
- Francisco, J.R., Notes on Threatened Ecosystems in Mindanao: Two Case Studies. *MINDAYAWAN Journal of Culture and Society*, 2005, 2(1):194-206.
- Francisco, J.R., Philippine-American Cultural and Educational Exchanges: The Role of the Fulbright Program. *MINDAYAWAN Journal of Culture and Society*, 2005, 2(1):207-234.
- 1999 Francisco, J.R., Palongpalong, A., & Mahiwo, S., Society and culture: the Asian heritage: festschrift for Juan R. Francisco, Ph.D., Professor of Indology. Diliman, Quezon City: Asian Center, University of the Philippines, 1999.
- 1994 Francisco, J.R., From Ayodhya to Pulu Agama Niog: Rama's journey to the Philippines. Diliman, Quezon City: Asian Center, University of the Philippines, 1994.
- Francisco, J.R., Sarimanok and the Torogan: and other essays. *Mindanao Journal*. Marawi City: Mamitua Saber Research Center, Mindanao State University, 1994, 21(1-2).
- 1993 Francisco, J.R., Bhinneka Tunggal Eka: The Development of a National Language in the Philippines. Proceedings of the Symposium International Ilmu-Ilmu Humaniora II, Bidang Linguistik Dan Sejarah, Faculty of Letters, 1993.
- 1988 Francisco, J.R., Selected essays on Mindanao art and culture. Marawi City, Philippines: University Research Center, Mindanao State University, 1988.
- 1985 Francisco, J.R., Indian culture in the Philippines: views and reviews: fourth Sri Lanka Endowment Fund lecture delivered at the University of Malaya on Friday, October 18, 1985. Kuala Lumpur: University of Malaya, 1985.
- 1973 Francisco, J.R., Philippine palaeography. Special Monograph Issue. *Philippine Journal of Linguistics*, 1973.
- Francisco, J.R., Sanskrit in Philippine language and literature. New Delhi, International Academy of Indian Culture, 1973.
- 1971 Francisco, J.R., The Philippines and India; essays in ancient cultural relations. Manila, National Book Store, 1971.
- Francisco, J.R., Notes on Islamic Literature in the Philippines. Diliman, Quezon City, 1971.
- Francisco, J.R., Reflections on the migration theory vis-à-vis the coming of Indian influences in the Philippines. *Asian Studies. Journal of Critical Perspectives on Asia*, 1971, 9(3):307-314.
- 1969 Francisco, J.R., & Madale, N.T., Maharadia Lawana. Quezon City: Philippine Folklore Society, 1969.
- Francisco, J.R., Maharadia Lawana. *Asian Studies. Journal of Critical Perspectives on Asia*, 1969, 7(2):186-249.
- 1968 Francisco, J.R., Further Notes on Pardo de Tavera's 'El Sanscrito en la Lengua Tagalog. *Asian Studies. Journal of Critical Perspectives on Asia*, 1968, 6(2):223-234.

- 1964 Francisco, J.R., Indian influences in the Philippines, with special reference to language and literature. Quezon City, University of the Philippines, 1964.
Francisco, J.R., On the date of the coming of Indian influence in the Philippines. Hong Kong: University of Hong Kong, 1964.
- 1963 Francisco, J.R., A Buddhist Image from Karitunan Site, Calatagan, Batangas Province. Asian Studies. Journal of Critical Perspectives on Asia, 1963, 1:1(Special Is):13-22.
Francisco, J.R., The Golden Image of Agusan: A New Identification. Asian Studies. Journal of Critical Perspectives on Asia, 1963, 1:1(Special Is):31-38.
Francisco, J.R., A Note on the Golden Image of Agusan. Philippine Studies, 1963, 11(3):390-400.
- 1961 Francisco, J.R., Some Philippine tales compared with parallels in North Borneo. Kuching, 1961.

Name Edwin S. Luis

Gender Male

Organizational Affiliations

Retired Professor, University of the Philippines Los Baños, College, Laguna

Education

Doctor of Philosophy in Poultry Nutrition, University of Nebraska, Lincoln, Nebraska, USA 1980

Master of Science, University of the Philippines Los Baños, Laguna

Bachelor of Science in Agriculture, University of the Philippines Los Baños, Laguna

Fields of Specialization

Poultry Nutrition

Animal Science

Veterinary Medicine

Association Membership

Regular Member, National Research Council of the Philippines

Honors / Awards

Outstanding Scientific Paper Award, 26th Annual Scientific Meeting 2004 October 20-23

Agri-Specialist Outstanding Animal Nutritionist Award, 2004 October 20-23

Best Paper Award in Products and By-Products Processing and Utilization Category, 2004 October 20-23

Researches

Completed

Production Performance of Class A and B Broiler

Protease supplementation of corn and wheat-based diets for layers during the second six months of egg production

Bioavailability of Locally Produced MDCP Relative to Imported MDCP in Young and Old Layers

Bioavailability of phosphorus of localized manure relative monocalcium phosphate in broiler and layer diets

Supplementation of Acidifier on broiler and layer diets

Acid Protease Supplementation of Broiler Diets

Utilization of coconut residue (*Cocos nucifera*) from virgin oil production in broiler diets

Evaluation of pelleted and mash form feeds on the performance of pigs from pre-starter to finisher stage

Live yeast (*Candida tropicalis*, *Candida utilis*, *Saccharomyces cerevisiae*) as replacement of fish meal in broiler and layer diets

Effect of oregano powder supplementation on the performance broilers

Effect of acidifier in broiler and layer diets

Bioavailability of Phosphorus of Tricalcium Phosphate Relative to Monocalcium Phosphate in Broiler and Layer Diets

Xylanase Supplementation of Wheat- Based Diets for Chicken Broilers and Layers (*Gallus gallus domesticus*) and Mallard Ducks (*Anas platyrhynchos*)

Chicks fed diets supplemented with flavophospholipol

Microbial Acid Protease Supplementation of Reduce-Crude Protein Corn Soybean-Based Diets for Broiler Chickens

Oregano Extract: An Alternative Anticoccidial and Performance Enhancer for Broilers

Application of BIOTECH Produced Microbial Proteases for Food, Feeds and Other Industries

Studies on the Application of Cellulases for the Feed and Other Food Industries

Phosphorus Value of Bone Ash Relative to Monocalcium Phosphate as Source of Phosphorus for Broiler and Layer Diets

Protease and Cellulase Supplementation of Corn-Soybean-Based Broiler and Layer Diets

Dried Porzyme Soluble as Replacement of Fishmeal in Layer Diets

Microbial Acid Protease Supplementation of Corn-Soybean- Based Diets for Chicken Broilers and Layers (*Gallus gallus domesticus*) and Wheat-Soybean-Based Diets for Swine (*Sus domesticus*)

Performance enhancer in layer diets

Papers Presented

2004 October Luis, Edwin S. (2004 October 20-23). Effect of Different Lighting Regime and Handling Frequency on the Performance and Immune Response Broiler Chickens, The 41st PSAS Ann Convention, Shangri-La, Makati City.

2004 October Luis, Edwin S. (2004 October 20-23). Locally isolated lactic acid bacteria as competitive exclusion culture for broil chicks, The PSAS 41st Annual Convention, Shangri-La, Makati City.

Publications

- 2015 Reyes, F.C.C., Cardona, J.K.M., Angeles, E.P., Regaspi, A.F.S., Luis, E.S., Magpantay, V.A., & Baoy, H.T., Eubiotic Lignocellulose Supplementation in Sows Reduced Dry Period and Preweaning Mortality of Piglets. *Philippine Journal of Veterinary and Animal Sciences*, 2015, 41(2):85-91.
Dagaas, C.T., Bautista, H.N.F., & Luis, E.S., Performance and Egg Quality of Babcock Layer Chicken Fed Coconut Oil and Soya Lecithin oil in the Ration. *Philippine Journal of Veterinary and Animal Sciences*, 2015, 41(1):31-40.
- 2014 Adiova, C.B., Acda, S.P., Agbisit, E.M., Jr., Merca, F.E., & Luis, E.S., β -Galactomannase Supplementation Improves Protein Digestibility and Growth Performance in Growing Pigs Fed Diets Containing High Levels of Copra meal. *Philippine Journal of Veterinary and Animal Sciences*, 2014, 40(1):37-45.
Gragasin, R.J.T., Dagaas, C.T., & Luis, E.S., Performance of Layers Fed with Dietary Herbal Methionine and DL-Methionine Supplemented Diets. *Philippine Journal of Veterinary and Animal Sciences*, 2014, 40(2):133-144.
- 2012 Britanico, E.B., Merca, F.E., Angeles, A.A., Acda, S.P., & Luis, E.S., Effects of Supplementing Diets with Amino Acid Chelates of Copper, Zinc, Manganese and Iron on the Performance of Broilers. *Philippine Journal of Veterinary and Animal Sciences*, 2012, 38(1):1-10.
Britanico, E.B., Merca, F.E., Angeles, A.A., Acda, S.P., & Luis, E.S., Effects of Supplementing Diets with Amino Acid Chelates of Copper, Zinc, Manganese and Iron on the Performance of Broilers. *Philippine Journal of Veterinary and Animal Sciences*, 2012, 38(1):1-10.
- 2011 Rodelas, A.P.M., Magpantay, V.A., & Luis, E.S., Efficacy of Biocholine Alone or In Combination with Herbal Vitamins C and E on the Growth Performance of Broilers. *Philippine Journal of Veterinary and Animal Sciences*, 2011, 37(1):19-26.
Luis, E.S., Batungbacal, M.R., & Lavega, C.P., Effect of Dietary Butyric Acid Supplementation on the Laying Performance of Chickens. *Philippine Journal of Veterinary and Animal Sciences*, 2011, 37(1):37-44.
Angeles, E.P., Acda, S.P., Roxas, N.P., Angeles, A.A., Luis, E.S., & Merca, F.E., Naturally-Occurring Plant Extracts as Performance Enhancer in Broilers. *Philippine Journal of Veterinary and Animal Sciences*, 2011, 37(2):111-118.
de Castro, R.O., Luis, E.S., Batungbacal, M.R., Acda, S.P., & Merca, F.E., Effect of Supplementing High Aflatoxin Diets with Toxin Binder or Herbal Liver Conditioner Alone or in Combination on the Performance of Broilers. *Philippine Journal of Veterinary and Animal Sciences*, 2011, 37(2):119-130.
- 2010 Ponce, T.P.S., Magpantay, V.A., & Luis, E.S., Growth Performance of Broilers Fed Micro-Pellet Booster Diet on the First Seven Days of Brooding. *Philippine Journal of Veterinary and Animal Sciences*, 2010, 36(2):120-126.
Dagaas, C.T., Patriarca, S.M.Q., Luis, E.S., de Castro, N.L., & Lalican, N.M., Egg Quality and Production Performance of Old Layers (51-66 Weeks) Fed Diets with Varying Levels of Calcium Supplements. *Philippine Journal of Veterinary and Animal Sciences*, 2010, 36(2):147-156.

- 2008 Billena, M.S., Luis, E.S., Roxas, N.P., Capitan, S.S., & Flavier, M.E., In Vitro Characterization of Xylanase for Broiler Chickens. *Philippine Journal of Veterinary and Animal Sciences*, 2008, 34(1):23-32.
 Billena, M.S., Luis, E.S., Roxas, N.P., Capitan, S.S., & Flavier, M.E., Supplementation of Wheat-Based Broiler Chicken Diets with Different Xylanase Preparations at Different Levels of Enzyme Activity. *Philippine Journal of Veterinary and Animal Sciences*, 2008, 34(2):107-116.
- 2007 Olarve, J.P., Luis, E.S., & Mangabat, C.G., The Effect of Different Levels of an Acidifier in the Diet on the Performance of Broilers. *Philippine Journal of Veterinary Medicine*, 2007, 44(1):14-19.
 Magpantay, V.A., Oliveros, M.C.R., Luis, E.S., Batungbacal, M.R., & Carandang, N.F., Performance of Broilers Fed Diets Dosed With Pirimiphos-Methyl. *Philippine Journal of Veterinary and Animal Sciences*, 2007, 33(2):135-142.
 Obsiomat, V.P., Roxas, N.P., Batungbacal, M.R., Luis, E.S., Dizon, E.I., & Mabesa, R.C., Sensory Characteristics and Dressing Yield of Broilers Given Lactic Acid Bacteria, Lactose, Inulin and Flavophospholipol. *Philippine Journal of Veterinary and Animal Sciences*, 2007, 33(2):153-162.
- 2006 Obsioma, V.P., Roxas, N.P., Batungbacal, M.R., Luis, E.S., Dizon, E.I., & Mabesa, R.C., Comparison of Competitive Exclusion Culture, Inulin and Flavophospholipol Treatments in Controlling Salmonella Colonization in Broilers. *Philippine Journal of Veterinary Medicine*, 2006, 43(1):18-25.
- 2005 Batungbacal, M.R., Luis, E.S., Centeno, J.R., & Carandang, N.F., Production Performance of Class A and B Broiler Chicks Fed Diets Supplemented with Flavophospholipol. *Philippine Journal of Veterinary Medicine*, 2005, 42(1):16-21.
 De Vera, M.M., Luis, E.S., Batungbacal, M.R., Merca, F.E., & Espino, T.M., Cellulase Supplementation of Corn (*Zea Mays* L.)-Soybean (*Glycine Max* L.) Meal-Based Diets For Starting, Growing And Finishing Pigs (*Sus Scrota* L.). *Philippine Journal of Veterinary and Animal Sciences*, 2005, 31(2):131-140.
 Obsiomat, V.P., Roxas, N.P., Batungbacal, M.R., Luis, E.S., Dizon, E.I., & Mabesa, R.C., Lactic Acid Bacteria as a Competitive Exclusion Culture for Broiler Chicks. *Philippine Journal of Veterinary and Animal Sciences*, 2005, 31(11):147-157.
 Obiosoma, V.P., Roxas, N.P., Batungbacal, M.R., Luis, E.S., Dizon, E.I., & Sedano, S.A., Development of a Competitive Exclusion Culture from Local Strains of Lactic Acid Bacteria. *Philippine Journal of Veterinary and Animal Sciences*, 2005, 31(1):47-55.
 Batungbacal, M.R., Luis, E.S., Centeno, J.R., & Carandang, N.F., Effect of Lighting Regime and Handling Frequency on the Performance and Immune Response of Broiler Chickens. *Philippine Journal of Veterinary and Animal Sciences*, 2005, 31(1):57-65.
- 2004 Akliilu, M., Luis, E.S., Batungbacal, M.R., & Revilleza, M.J.R., Microbial Acid Protease Supplementation of Reduced-Crude Protein Corn-Soybean-Based Diets for Broiler Chickens. *Philippine Journal of Veterinary Medicine*, 2004, 41(2):69-76.

- Presa, J.D., Valle-Paraso, M.G.R., Luis, E.S., & Anunciado, R.V.P., Reproductive Effects of Gulipas (*Sida cordifolia*) on Immature Female Sprague-Dawley Rats. *Philippine Journal of Veterinary Medicine*, 2004, 41(1):25-31.
- Romjali, E., Lambio, A.L., Luis, E.S., Roxas, N.P., & Barrion, A.R., Plumage Pattern and Feeding Regime Interactions on Laying Performance of Philippine Mallard Ducks (*Anas Platyrhynchos* Linn.). *Philippine Journal of Veterinary and Animal Sciences*, 2004, 30(1):113-120.
- 2003 Perez, D.A., Luis, E.S., Batungbacal, M.R., & Merca, F.E., Bioavailability of Calcium from Marble Dust Relative to Limestone in Broiler Diets. *Philippine Journal of Veterinary and Animal Sciences*, 2003, 29(2):73-83.
- 2002 Arboleda, F.C., Mateo, C.D., Luis, E.S., & Guerrero, R.D., Enzyme Supplementation of Soybean Meal in Milkfish Diet. *Philippine Journal of Veterinary and Animal Sciences*, 2002, 28(1):89-97.
- Amanda, D.C., Luis, E.S., Batungbacal, M.R., & Merca, F.E., Different Cereal Grains as Energy Sources for Broiler Diets. *Philippine Journal of Veterinary and Animal Sciences*, 2002, 28(2):37-45.

Name Amelita C. Luna

Gender Female

Organizational Affiliations

University Researcher 2, Office of the Coordinator for Research, Extension and Linkages, College of Forestry and Natural Resources, University of the Philippines Los Baños, College, 4031 Laguna

Education

Master of Science in Forestry, University of the Philippines Los Banos - Graduate School, College, 4031 Laguna 1998

Fields of Specialization

Silviculture

Forest Pathology

Permanent Plot Monitoring

Agriculture

Association Membership

Member, National Research Council of the Philippines

Honors / Awards

25 years of service, University of the Philippines Los Baños 17 April 2015

Researches

Completed

Program-Enhancing Food Security Through Synergistics Climate Change Adaptation Program in Biodiversity and Natural Agro-ecosystems in Mt. Makiling Forest Reserves (MFR) and Mt. Banahaw

Conservation of Metallophytes, Phytochemistry of Nickle Hyperaccumulators and Phytostabilization to Restore Mined-out Areas in Palawan, Surigao and Zambales

Revegetation of Degraded Ultramafic Areas in Northern Zambales, Philippines Using Native Metallophytes

Permanent Plots Monitoring in MFR: Its Support to University Biodiversity Researches

PFLA IEC Materials and Publications for Database Management

Ongoing

Germplasm conservation of select indigenous forest tree species in Mt. Makiling Forest Reserve (MMFR)

Papers Presented

- 2014 October 14-16 Racelis, E., Luna, A., & Racelis, D. (2014 October 14-16). Assessment of Biomass and Carbon Sequestration of Large Leaf Mahogany (*Swietenia macrophylla* King) Plantation of Mt. Makiling Forest Reserve (MFR), Philippines: A Decade After. International Conference on Sustainable Forest Management-The 2nd Forest Science Forum, Beijing, China.
- 2014 July 9-10 Fortun, R.G., Bantayan, N.C., & Luna, A.C. (2014 July 9-10). International Conference on Sustainable Forest Management-The 2nd Forest Science Forum, Beijing China, 36th Scientific Meeting National Academy of Science and Technology (NAST). Abstracts of Papers. Transactions of the National Academy of Science and Technology.
- 2014 July 9-10 Roja, G.P., Villanueva, T.R., & Luna, A.C. (2014 July 9-10). Tree Growth and GIS-Assisted Inventory of the Permanent Field Laboratory Areas 2, Mt. Makiling Forest Reserve, Philippines, 36th Scientific Meeting National Academy of Science and Technology (NAST). Abstracts of Papers. Transactions of the National Academy of Science and Technology.
- 2006 July 12-13 Luna, A.C., & Gascon, A.F. (2006 July 12-13). Guild Structure in Mt. Makiling Forest Reserve: Its Implications to Silviculture and Natural Resources Management, 28th National Academy of Science and Technology Annual Scientific Meeting.
- 2006 July 12-13 Luna, A.C., Tolentino, E.L., Jr., Razal, R.A., Pampolina, N.M., Abraham, E.R.G., Castillo, M.L., Tiburan, C.L., Santos, E.P., & Jara, A.A. (2006 July 12-13). Permanent Field Laboratory Areas in Mt. Makiling Forest Reserve: A Model for Sustainable Natural Resource Management, 28th National Academy of Science and Technology Annual Scientific Meeting.
- 2006 July 12-13 Bombane, A.S., Pampolina, N.M., & Luna, A.C. (2006 July 12-13). Possible Link of Endomycorrhizas with Potential Bioinvasive Mahogany (*Swietenia macrophylla* King) in Permanent Plots of Mt. Makiling Forest, 28th National Academy of Science and Technology Annual Scientific Meeting.

Publications

- 2016 Malabrigo, P.L., Jr., Umali, A.G.A., Tiburan, C.L., Jr., Pampolina, N.M., Balatibat, J.B., Tinio, C.E., Abaloso, W.P., Luna, A.C., & Bocondin, J.C., Tree Diversity and Stand Structure of Permanent Biodiversity Monitoring Area in Mount Makiling. *Asian Journal of Biodiversity*, 2016, 7(1):17-30.
Ata, J.P., Luna, A.C., Tinio, C.E., Quimado, M.O., Maldia, L.S., Abaloso, W.P., & Fernando, E.S., Rapid Assessment of Plant Diversity in Ultramafic Soil Environments in Zambales and Surigao del Norte, Philippines. *Asian Journal of Biodiversity*, 2016, 7(1):1-16.
- 2013 Racelis, D., Camacho, S., Racelis, E., & Luna, A., Labor-Intensive Harvesting Practices for Malapapaya (*Polyscias nodosa*). *Journal of Interdisciplinary Network, Special Issue on Interdisciplinary Research and Development in ASEAN Universities*, 2013, 2(2):82-87.

- Racelis, E., Luna, A., & Racelis, D., Biomass and Carbon Accounting of Large-leaf Mahogany (*Swietenia macrophylla* King) and Dipterocarp Plantations in Mt. Makiling Forest Reserve, Philippines. *Journal of Interdisciplinary Networks*, Special Issue on Interdisciplinary Research and Development in ASEAN Universities, 2013, 2(2):139-146.
- Pascual, J.N., Luna, A.C., & Balatibat, J.B., Comparative diversity of ground-dwelling ants (*Hymenoptera:Formicidae*) in two permanent plots in Makiling Forest Reserve, Los Baños, Laguna, Philippines. *Transactions of the National Academy of Science and Technology*, 2013, 35(1):64.
- 2012 Maligalig, S.M., Luna, A.C., & Abraham, E.R.G., Priority Protection, Conservation and Development Areas of Makiling-Banahaw Geothermal Area, Philippines. Abstracts of Papers. 34th Annual Scientific Meeting. *Transactions of the National Academy of Science and Technology.*, 2012:24.
- Abraham, E.R.G., Luna, A.C., & Maligalig, S.M., Vegetation and Land-Use of Mak-Ban Geothermal Area, Philippines. Abstracts of Papers. 34th Annual Scientific Meeting. *Transactions of the National Academy of Science and Technology*, 2012:58.
- 2009 Utsugi, H., Okuda, S., Luna, A.C., & Gascon, A.F., Differences in Growth and Photosynthesis Performance of Two Dipterocarp Species Planted in Laguna, the Philippines. *Japan Agricultural Research Quarterly*, 2009, 43(1):45-53.
- Herrera, K.J.M., Luna, A.C., & Balatibat, J.B., Effects of forest gaps on foliage insect diversity in the permanent field laboratory areas (PFLAS) in Mt. Makiling Forest Reserve. *Transactions of the National Academy of Science and Technology*, 2009, 31(1):39-40.
- Buena, E.R.L., Luna, A.C., & Balatibat, J.B., Survey and census of ground lizards in the permanent field laboratory areas (PFLAS) in Mt. Makiling forest reserve. *Transactions of the National Academy of Science and Technology*, 2009, 31(1):97.
- 2007 Abraham, E.R.G., Castillo, L.A., Lee, Y.K., Woo, S.Y., Lee, D.K., Jang, Y.H., Sargento, J.O., & Luna, A.C., Conservation relay: Private sector participation in restoration of degraded forest landscape in Mt. Makiling, Philippines. *Forest Science and Technology*, 2007, 3(1):33-39.
- 2003 Razal, R.A., Tolentino, E.L., Jr., Garcia, M.U., Fernando, E.S., Baguion, N.T., Quimado, M.O., Donoso, L.A., & Luna, A.C., Status of forest genetic resources conservation and management in the Philippines. *Country Reports, Proceedings of the Asia Pacific Forest Genetic Resources Programme (APFORGEN) Inception Workshop*, Kuala Lumpur, Malaysia, 2003:229-264.

Name Pastor L. Malabrigo, Jr.

Gender Male

Organizational Affiliations

Associate Professor, Department of Forest Biological Sciences, College of Forestry and Natural Resources, University of the Philippines Los Baños, Laguna, Philippines

Education

Doctor of Philosophy in Marine Science , Marine Science Institute, University of the Philippines, Diliman, Quezon City (Ongoing)

Master of Science in Forestry, University of the Philippines Los Baños, College, Laguna 4031 Philippines 2001

Bachelor of Science in Forestry, University of the Philippines Los Baños, College, Laguna 4031 Philippines 1995

Fields of Specialization

Plant Taxonomy

Biodiversity

Marine Botany

Forestry

Honors / Awards

Best Book in Science. Shades of Majesty: 88 Philippine Native Trees, 32nd National Book Awards 2013 November 16

Scholarship Recipient, Department of Science and Technology-Accelerated S&T Human Resources Development Program (DOST-ASTHRDP)

Scholarship Recipient, Japan-East Asia Network of Exchange for Students and Youths (JENESYS)

Papers Presented

2010 November 23-25 Carandang, M.G., Landicho, L.D., Andrada, R.T., Malabrigo, P.L., Jr., & Javier, A.A. (2010 November 23-25). Career path of forestry graduates in the Philippines: implications to Forestry Education Program, International Conference on Forestry Education and Research for the Asia Pacific Region,, College, Laguna (Philippines).

Publications

2016 Malabrigo, P.L., Strategies and Challenges of Mangrove Restoration in the Philippines. *Malaysian Forester*, 2016, 79(1-2):89-94.

Malabrigo, P.L., Umali, A.G.A., Tiburan, C.L., Jr., Pampolina, N.M., Balatibat, J.B., Tinio, C.E., Abasolo, W.P., Luna, A.C., & Boncodin, J.C., Tree Diversity

- and Stand Structure of Permanent Biodiversity Monitoring Area in Mount Makiling. *Asian Journal of Biodiversity*, 2016, 7(1):18-31.
- Malabrigo, P.L., Tiburan, C.L., Galang, M.A., & Saizen, I., Tree Diversity at La Mesa Watershed in Luzon, a Reforested Urban Watershed. *Asian Journal of Biodiversity*, 2016, 6(2):22-39.
- Malabrigo, P.L., Jr., Umali, A.G.A., & Replan, E.L., Damage Assessment and Recovery Monitoring of the Mangrove Forests in Calauit Island Affected by Typhoon Yolanda (Haiyan). *Journal of Environmental Science and Management*, 2016, Special Is(2):39-46.
- Hernandez, J.O., Malabrigo, P.L., Jr., Quimado, M.O., Mardia, L.S.J., & Fernando, E.S., Xerophytic Characteristics of *Tectona philippinensis* Benth. & Hook. f.. *Philippine Journal of Science*, 2016, 145(3):259-269.
- 2014 Malabrigo, P.L., Umali, A.G.A., & Elec, J.P., Riparian Flora of Kaliwa River Watershed in the Sierra Madre Mountain Range, Philippines. *Ecosystems and Development Journal*, 2014, 5(1):11-22.
- Malabrigo, P.L., Jr., Umali, A.G.A., & Elec, J.P., Riparian Flora of Kaliwa River Watershed in the Sierra Madre Mountain Range, Philippines. *Ecosystems and Development Journal*, 2014, 5(1):11-22.
- 2013 Garcia, K., Gevaña, D., & Malabrigo, P.L., Jr., Philippines' Mangrove Ecosystem: Status, Threats, and Conservation. In: *Mangrove Ecosystems of Asia: Status, Challenges and Management Strategies* (Ibrahim, F.-H., Latiff, A., Hakeem, K.R., & Ozturk, M., Eds.), 2013:81-94.
- Malabrigo, P.L., Jr., & Abanto, R.G., Mt. Guinatungan, Camarines Norte, Philippines: Unknown haven of *Rafflesia manillana* Teschem. (Rafflesiaceae). *Asian International Journal of Life Sciences*, 2013, 22(2):577-589.
- Malabrigo, P.L., Jr., Vascular Flora of the Tropical Montane Forests in Balbalasang-Balbalan National Park, Kalinga Province, Northern Luzon, Philippines. *Asian Journal of Biodiversity*, 2013, 4(1):1-22.
- 2012 Malabrigo, P.L., Jr., & LaFrankie, J., Jr., *Shades of Majesty: 88 Philippine Native Trees*. Wide Angle Media, Inc./Project Brio Media House, 2012.
- 2010 Malabrigo, P.L., Jr., *Rafflesia banaoana* (Rafflesiaceae): Another new species from Luzon, Philippines. *Asia Life Sciences*, 2010, Supplement(4):139-146.
- 2008 Carandang, M.G., Landicho, L.D., Andrada, R.T., II, Malabrigo, P.L., Jr., Angeles, A.M., Oliva, A.T., Eslava, F.E., Jr., & Regondola, M.L., Demystifying the State of Forestry Education and the Forestry Profession in the Philippines. *Ecosystems and Development Journal*, 2008, 1(1):46-54.
- 2004 Malabrigo, P.L., Jr., & Fernando, E.S., An Account on the Rattan Flora of the Philippines. *Forest Products Research and Development Institute Journal*, 2004, 27(1):113-120.
- 2003 Malabrigo, P.L., Jr., & Fernando, E.S., Interactive Identification and Information Retrieval on the Philippine Rattans. *Proceedings of the XII World Forestry Congress, Quebec, Canada, 2003*.

Name Nelson Manguiat Pampolina

Gender Male

Organizational Affiliations

Professor, Department of Forest Biological Sciences, College of Forestry and Natural Resources, University of the Philippines Los Baños, Laguna, Philippines

Education

Doctor of Philosophy in Environmental Biology, Murdoch University Perth, Western Australia

Master of Science in Forestry, Forest Biological Sciences, University of the Philippines Los Baños, College, Laguna 4031 Philippines

Bachelor of Science in Forestry (*cum Laude*), University of the Philippines Los Baños, College, Laguna 4031 Philippines 2009

Fields of Specialization

Terrestrial Ecology

Environmental Biology

Bioremediation Studies

Mycorrhizal Studies

Association Membership

Member, National Research Council of the Philippines

Honors / Awards

Awardee, Exploring Potential Bioenergy from Biodiversity Resources: Providing Options for a Responsible Mining in Southern Philippines, Guillermo Ponce Professorial Chair Lecture 2010 June 30 - 2011 June 30

Most Outstanding Teacher in Biological Sciences, College of Forestry and Natural Resources, University of the Philippines Los Baños 2006 April

Most Outstanding Alumnus, Tupi National High School 2005 December 30

Awardee, Forest Biological Sciences 2004 July- 2005 June

Awardee, Forest Biological Sciences 2003 July- 2004 June

Researches

Completed

Ubiquitous Mycorrhiza: Friendly Partners in Ecological Restoration and Ecosystem Sustainability

Endomycorrhizal Diversity: Potential in the Restoration of Endangered Philippine Teak (*Tectona Philippinensis* Benth. & Hook. f.)

Carbon Sequestration Potential from Eucalyptus urophylla Plantation and Ectomycorrhizal Fungal Biomass in Southern Philippines. Funded by the

Biodiversity Resources in La Mesa Dam: Vital for Sustainable Management of Watershed Ecosystem. Funded by the ABS-CBN Bantay Kalikasan Foundation

Biodiversity Resources in Nagtipunan Quirino: Potential for Ecotourism and Livelihood Opportunities. Funded by the Quirino Development Incorporated

On-going

Biodiversity Resources in Copper-rich Mountains of Tampakan and Vicinities: Vital for Sustainable Ecosystem Management

Papers Presented

2011 July 13-14 Pampolina, N.M (2011 July 13-14). Dynamics of Endomycorrhizas and Associated Forest Wildings in Three Permanent Field Laboratory Areas in Mt. Makiling, Los Baños, Laguna, Philippines, 33rd NAST Annual Scientific Meeting.

2004 December 8-10 Pampolina, N.M. (2004 December 8-10). Biodiversity Resources in Copper-rich Mountains of Tampakan and Vicinities: Vital for Sustainable Ecosystem Management, Geological Society of the Philippines (GEOCON). Sulu Hotel, Quezon City.

2004 November 14-19 Pampolina, N.M. (2004 November 14-19). Endomycorrhizal Diversity: Potential In the Restoration of Endangered Philippine Teak (*Tectona Philippinensis* Benth. & Hook. f.), 4th Asia-Pacific Mycological Congress. Chiang Mai, Thailand.

2004 November 15-19 Aggangan, N.S., Koffa, S., Pampolina, N.M., & Iringan, D.S. (2004 November 15-19). Mycorrhizal fungal diversity of the Northwest Panay low-elevation forest West-Central Philippines, 4th Asia-Pacific Mycological Congress and 9th International Marine and Freshwater. Chiang mai, Thailand.

2003 December 15-18 Pampolina, N.M., Militante, E.P., Balatibat, J.B., Lucero, R.M., & Mendoza, M.D. (2003 December 15-18). Biodiversity: Link to the Restoration of Indigenous Flora in La Mesa Dam Watershed Ecosystem in the Philippines, 12th International BIO-REFOR Workshop on Ecological Approach on Productivity and Sustainability of Forests, Yogyakarta, Indonesia.

Publications

2017 Paquit, J.C., Pampolina, N.M., Tiburan, C.L., Jr., & Manalo, M.M.Q., Maxent modeling of the habitat distribution of the critically endangered *Pterocarpus indicus* Willd. forma *indicus* In Mindanao, Philippines. *Journal of Biodiversity and Environmental Sciences*, 2017, 10(3):112-122.

- Paquit, J.C., & Pampolna, N.M., Tree and Macrofungal diversity of the two different habitat types in Mt. Makiling forest reserve. *International Journal of Microbiology and Mycology*, 2017, 10(4):1-8.
- 2016 Malabrigo, P.L., Umali, A.G.A., Tiburan, C.L., Pampolina, N.M., Balatibat, J.B., Tinio, C.E., Abasolo, W.P., Luna, A.C., & Boncodin, J.C., Tree Diversity and Stand Structure of Permanent Biodiversity Monitoring Area in Mount Makiling. *Asian Journal of Biodiversity*, 2016, 7:18-31.
- Lumbres, R.I., Abino, A.C., Pampolina, N.M., Calora, F.G., Jr., & Lee, Y.J., Comparison of stem taper models for the four tropical tree species in Mount Makiling, Philippines. *Journal of Mountain Science*, 2016, 13(2):536-545.
- 2015 Tayrus, L.B., Abasolo, W.P., & Pampolina, N.M., Chlorophyll Content, Cell Size, Growth and Resistance to Coconut Scale Insect (*Aspidiotus rigidus* Reyne) of Buri Palms (*Corypha utan* Lam.) as Influenced by Different Hoagland Concentrations. *IAMURE International Journal of Ecology and Conservation*, 2015, 14(1):148-167.
- Aggangan, N.S., Pampolina, N.M., Cadiz, N.M., & Raymundo, A.K., Assessment of Plant Diversity and Associated Mycorrhizal Fungi in the Mined-out Sites of Atlas Mines in Toledo City, Cebu for Bioremediation. *Journal of Environmental Science and Management*, 2015, 18(1):71-86.
- 2013 Case, A.E., Ashiglar, S.M., Cannon, P.G., Militante, E.P., Tadosa, E.R., Quintos-Manalo, M., Pampolina, N.M., Hanna, J. W.; Brooks, F.E., Ross-Davis, A. L., Kim, M.-S., Klopfenstein, N.B., DNA-based approaches to identify forest fungi in Pacific Islands: A pilot study. In: Browning, John; Palacios, Patsy, comps.. *Proceedings of the 60th Annual Western International Forest Disease Work Conference; October 8-12, Tahoe City, CA. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Forest Health., 2013:149-151.*
- Adiova, J.M., Pampolina, N.M., & Aggangan, N.S., Effect of Arbuscular Mycorrhizal Fungi Inoculation on Growth and Cu Uptake and Toxicity of *Desmodium cinereum* (Kunth) D.C.. *Philippine Journal of Science*, 2013, 142(1):87-96.
- Almazol, A.E., Cervancia, C.R., Buot, I.E., Jr., Gruezo, W.SM., & Pampolina, N.M., Floristic Composition and Physiognomy of Pagbilao Mangrove, Quezon Province, Philippines. *IAMURE International Journal of Ecology and Conservation*, 2013, 7(1):25-39.
- Gevaña, D.T., Pollisco, J.P.T., Pampolina, N.M., Kim, D., & Im, S., Plant Diversity and Aboveground Carbon Stock Along Altitudinal Gradients in Quezon Mountain Range in Southern Mindanao, Philippines. *Journal of Environmental Science and Management*, 2013, 16(1):20-28.
- Labutap, N.P., Pampolina, N.M., Balatibat, J.B., & Geronimo, R.O.G., Structural and Functional Differences Between Plantation and Natural Mangrove Ecosystems in Prieto Diaz, Sorsogon, Philippines. *Ecosystem and Development Journal*, 2013, 4(1):30-38.
- Llamado, A.L., Raymundo, A.K., Aggangan, N.S., Pampolina, N.M., & Cadiz, N.M., Enhanced Rhizosphere Bacterial Population in an Abandoned Copper Mined-out Area Planted with *Jatropha* Interspersed with Selected Indigenous

- Tree Species. *Journal of Environmental Science and Management*, 2013, 16(2):45-55.
- 2012 Tadosa, E.R., Militante, E.P., & Pampolina, N.M., Fungi Associated with Decay of Some Philippine Dipterocarps and Its Ecological Functions and Significance at Mt. Makiling, Laguna, Philippines. *IAMURE International Journal of Ecology and Conservation*, 2012, 3(1):126-151.
- Tulod, A.M., Castillo, A.S.A., Carandang, W.M., & Pampolina, N.M., Growth performance and phytoremediation potential of *Pongamia pinnata* (L.) Pierre, *Samanea saman* (Jacq.) Merr. and *Vitex parviflora* Juss. in copper- contaminated soil amended with zeolite and VAM. *The Asian International Journal of Life Sciences*, 2012, 21(2):499-522.
- 2011 Pampolina, N.M., Dynamics of Endomycorrhizas and Associated Forest Wildings in Three Permanent Field Laboratory Areas in Mt. Makiling, Los Baños, Laguna, Philippines. *Transactions of the National Academy of Science and Technology / Abstracts of Papers*, 2011, 33(1).
- Pampolina, N.M., Effects of Agrochemicals on Endomycorrhizal Dynamics for a Sustainable Soil in Tampakan Mountain Ecosystem. *Transactions of the National Academy of Science and Technology / Abstracts of Papers*, 2011, 33(1).
- 2009 Pampolina, N.M., & Castillo, M.L, Preliminary Survey of Mangrooves and Pine Forest of Masinloc, Zambales. *Transactions of the National Academy of Science and Technology. Abstracts of Papers*, 2009, 31(1).
- Gevaña, D.T., & Pampolina, N.M., Plant Diversity and Carbon Storage of a Rhizopora Stand in Verde Passage, San Juan, Batangas, Philippines. *Journal of Environmental Science and Management*, 2009, 12(2):1-10.
- 2008 Gevaña, D.T., Pulhin, F.B., & Pampolina, N.M., Carbon Stock Assessment of a Mangrove Ecosystem in San Juan, Batangas. *Journal of Environmental Science and Management*, 2008, 11(1):15-25.
- 2007 Gevaña, D.T., & Pampolina, N.M., Broadleaf diversity and carbon estimates along the northeastern slope of Mt. Makiling, Philippines. *Sylvatrop*, 2007, 17(1-2):35-52.
- 2006 Raymundo, A.L., Cadiz, N.M., Pampolina, N.M., & Aggangan, N.S., Initial Assessment of the Mogpog Abandoned Mine Areas for Bioremediation. UNESCO Scientific Commission, 2006.
- 2005 Pampolina, N., Torres, M., Piñon, A., Pollisco, J., Duran, N., & Adiova, J., Biodiversity Resources in the Southern Philippines: Vital for Sustainable Management of Mountain Ecosystems. In: Innes, J.L., Edwards, I.K., & Wilford, D.J. (eds.). *The International Forestry Review*. Commonwealth Forestry Association, 2005, 7(5):37.
- 2003 Pampolina, N.M., Militante, E.P., Balatibat, J.B., Lucero, R.M., & Mendoza, M.D., Biodiversity: Link to the Restoration of Indigenous Flora in La Mesa Dam Watershed Ecosystem in the Philippines. *Proceedings of the 12th International BIO-REFOR Workshop on Ecological Approach on Productivity and Sustainability of Forests*, Yogyakarta, Indonesia, 2003.

Name Marilyn O. Quimado

Gender Female

Organizational Affiliations

University Researcher, Department of Forest Biological Sciences, University of the Philippines Los Baños, Laguna, Philippines

Education

Doctor of Philosophy, University of the Philippines Los Baños, Laguna, Philippines 2002

Master of Science in Botany, University of the Philippines Los Baños, Laguna, Philippines 1991

Fields of Specialization

Tissue Culture

Forest Biotechnology

Ethnobotany

Ecology

Botany

Association Membership

Member, National Research Council of the Philippines

Researches

Completed

Conservation of Native Metallophytes, Phytochemistry of Nickel Hyperaccumulators and Phytostabilization to Restore Minedout Areas in Palawan, Surigao and Zambales

Publications

- 2016 Ata, J.P., Luna, A.C., Tinio, C.E., Quimado, M.O., Mardia, L.S., Abaloso, W.P., & Fernando, E.S., Rapid Assessment of Plant Diversity in Ultramafic Soil Environments in Zambales and Surigao del Norte, Philippines. *Asian Journal of Biodiversity*, 2016, 7(1):1-16.
- 2015 Quimado, M.O., Fernando, E.S., Trinidad, L.C., & Doronila, A.I., Nickel-hyperaccumulating species of *Phyllanthus* (Phyllanthaceae) from the Philippines. *Australian Journal of Botany*, 2015, 63(2):103-110.
- 2014 Fernando, E.S., Quimado, M.O., & Doronila, A.I., *Rinorea niccolifera* (Violaceae), a new, nickel-hyperaccumulating species from Luzon Island, Philippines. *PhytoKeys*, 2014, 37:1-13.
- 2013 Fernando, E.S., Quimado, M.O., Trinidad, L.C., & Doronila, A.I., The potential use of indigenous nickel hyperaccumulators for small scale mining in the

Philippines. *Journal of Degraded and Mining Lands Management*, 2013, 1(1):21-26.

Quimado, M.O., & Irader, M.K.P., Metallophytes spell hope for minded-out soils. *The PCAARRD Monitor*, 2013, 2(2):14-15.

2003 Razal, R.A., Tolentino, E.L., Jr., Garcia, M.U., Fernando, E.S., Baguinon, N.T., Quimado, M.O., Donoso, L.A., & Luna, A.C., Status of forest genetic resources conservation and management in the Philippines. *Country Reports, Proceedings of the Asia Pacific Forest Genetic Resources Programme (APFORGEN) Inception Workshop*, Kuala Lumpur, Malaysia, 2003:229-264.

Name Crusty Estoque Tinio

Gender Female

Organizational Affiliations

Assistant Professor, College of Forestry and Natural Resources, University of the Philippines Los Baños, Laguna, Philippines

Education

Master of Science in Forest Sciences and Forest Ecology, Georg-August University of Göttingen, Germany 2011

Bachelor of Science in Forestry (*cum laude*), University of the Philippines Los Baños, Laguna, Philippines 2007

Fields of Specialization

Forest Ecology

Forest Genetics

Honors / Awards

International Publication Award for the article, Genetic variation in natural and planted populations of *Shorea guiso* (Dipterocarpaceae) in the Philippines revealed by microsatellite DNA markers, University of the Philippines Los Baños 2014 June 25

2013 Most Outstanding Alumni, Caraga Regional Science High School. Caraga Administrative Region 2013 December 28

Publications

- 2016 Malabrigo, P.L., Jr., Umali, A.G.A., Tiburan, C.L., Jr., Pampolina, N.M., Balatibat, J.B., Tinio, C.E., Abaloso, W.P., Luna, A.C., & Boncodin, J.C., Tree Diversity and Stand Structure of Permanent Biodiversity Monitoring Area in Mount Makiling. *Asian Journal of Biodiversity*, 2016, 7(1):18-31.
- Ata, J.P., Luna, A.C., Tinio, C.E., Quimado, M.O., Mardia, L.S., Abasolo, W.P., & Fernando, E.S., Rapid Assessment of Plant Diversity in Ultramafic Soil Environments in Zambales and Surigao del Norte, Philippines. *Asian Journal of Biodiversity*, 2016, 7(1):1-16.
- 2015 Kpadehyea, J.T., Fernando, E.S., Tinio, C.E., & Buot, I.E., Ethnobotany Survey of the Wonegizi, Ziama Clan-Lofa County, Liberia. *Electronic Journal of Biology*, 2015, 11(4):165-175.
- 2014 Tinio, C.E., Finkeldey, R., Prinz, K., & Fernando, E.S., Genetic variation in natural and planted populations of *Shorea guiso* (Dipterocarpaceae) in the Philippines revealed by microsatellite DNA markers. *Asian International Journal of Life Sciences*, 2014, 23(1):75-91.
- 2013 Cruz, R.V.O., Fernando, E., Bantayan, N., Castillo, M.L., Tinio, C. E., & Ata, J. P. , A Scoping study on Climate Change and Biodiversity of Protected Areas

and Key Ecosystems in Southeast Asia. ASEAN Center for Biodiversity, German Cooperation and GiZ, 2013.

Name Arvin Paul P. Tuaño

Gender Male

Education

Master of Science in Biochemistry (Minor in Chemistry), University of the Philippines Los Baños, Laguna, Philippines 2013

Bachelor of Science in Chemistry, Polytechnic University of the Philippines, Manila, Philippines 2007

Fields of Specialization

Starch

Grain Quality

Biochemistry

Cereal Chemistry

Agricultural Biochemistry

Food Chemistry

Rice

Organic Chemistry

Differential Scanning Calorimetry

Rice Grain Quality

Employment

Supervising Science Research Specialist, Rice Chemistry and Quality Laboratory, Philippine Rice Research Institute (PhilRice) Los Baños, 2016 January-2016 September

Senior Science Research Specialist, Rice Chemistry and Quality Laboratory, Philippine Rice Research Institute (PhilRice) Los Baños, 2013 July-2015 December

Science Research Specialist II, Grain Quality Laboratory, Rice Chemistry and Food Science Division, Philippine Rice Research Institute (PhilRice) Los Baños, 2008 January-2013 June

Researcher, Grain Quality, Nutrition and Postharvest Center, International Rice Research Institute (IRRI), 2007 May-2007 December

Research Intern, Grain Quality, Nutrition and Postharvest Center, International Rice Research Institute (IRRI), 2006 September-2007 April

Honors / Awards

Best Poster Award for the study entitled "New tools for predicting chalkiness and immature grains in milled rice", 29th National Rice R&D Conference, PhilRice 2016 September 7-8

ACN 2015 Travel Award, Asian Congress of Nutrition 2015 May 14-15

Researches

Completed

New tools for predicting chalkiness and immature grains in milled rice

Papers Presented

2016 September 7-8 Pascual, T.M.M, Fracia, F.J.A., Tuaño, A.P.P., Tuates, A.M., & Padolina, T.F. (2016 September 7-8). New tools for predicting chalkiness and immature grains in milled rice, 29th National Rice R&D Conference, PhilRice.

2016 September 7-8 De Leon, R.C., Magnaye, M.J.F.A., Tuaño, A.P.P., & Torio, M.A.O. (2016 September 7-8). Bioactivity and Profiling of Enzymatic Hydrolysates from Rice Bran Soluble Proteins, 29th National Rice R&D Conference, PhilRice.

2016 July De Leon, R.C., Tuaño, A.P.P., & Torio, M.A.O. (2016 July). In vitro antihypertensive activity of enzymatic hydrolysates from rice bran proteins of Mestiso 19 and Mestiso 20 hybrids, 38th Annual Scientific Meeting of the National Academy of Science and Technology, Philippines.

2016 July Tuaño, A.P.P., Rodriguez, J.R.B., & Rodriguez, M.S. (2016 July). In vitro starch hydrolysis index of selected pigmented and non-pigmented cooked Philippine glutinous rices, 38th Annual Scientific Meeting of the National Academy of Science and Technology, Philippines.

2015 Felix, A., Tuaño, A.P.P., Trinidad, T.P., Mallilin, A.C., Sagum, R.S., & Juliano, B.O. (2015). Satiety and glycemic indexes of unpolished Philippine modern rice varieties, Asian Congress of Nutrition 2015, Yokohama, Japan.

2015 May Tuaño, A.P.P., Felix, A., Trinidad, T.P., Mallillin, A.C., Sagum, R.S., & Juliano, B.O. (2015 May). Relative effect of apparent amylose content on the glycemic response and short-term satiety of cooked milled non-waxy indica rices, Asian Congress of Nutrition 2015, Yokohama, Japan.

2014 July Tuaño, A.P.P., Fujita, N., Aoki, N., Crofts, N., Merca, F., & Juliano, B.O. (2014 July). Grain quality and starch properties of Philippine waxy and low-amylose rices with atypical grain quality, 36th Annual Scientific Meeting of the National Academy of Science and Technology, Philippines.

2013 November Perez, L., Calaguyan, M.I., Mananghaya, T., Orcino, J.A., Tuaño, A.P.P., Juliano, B.O., & Padolina, T.F. (2013 November). Current diversity of parental genetic stocks used in rice breeding in the Philippines, 7th International Rice Genetics Symposium, Makati, Philippines.

- 2013 September Tuaño, A.P.P., Aoki, N., Fujita, N., Oitome, N., Merca, F., & Juliano, B.O. (2013 September). Physicochemical characterization and starch fractionation of Philippine rices with atypical grain quality, National Rice R&D Conference 2013, PhilRice Central Experiment Station, Muñoz, Nueva Ecija, Philippines.
- 2012 April Perez, L., Mananghaya, T., Tuaño, A.P.P., Padolina, T.F., Shu, Q.-Y., & Juliano, B.O. (2012 April). Development of low phytic acid rice: Progress and prospect, 8th Scientific Convention of the Philippine Association for Plant Tissue Culture and Biotechnology, Aklan, Philippines.
- 2011 August Tuaño, A.P.P., Aoki, N., Umemoto, T., Sawada, T., Nakamura, Y., & Juliano, B.O. (2011 August). Cooked rice quality and starch properties of intermediate- and low-amylose indica rices, 3rd International Network for Quality Rice Symposium, Bangkok, Thailand.
- 2011 April Juliano, B.O., Monteroso, D., Tuaño, A.P.P., Umemoto, T., Aoki, N., Mestres, C., Duldulao, J.B.A., & Bergonio, K. (2011 April). Iodine colorimetry in ammonia buffered pH 9.6 solution to replace current method of apparent amylose assay of milled rice, 26th Philippine Chemistry Congress, Cebu City, Philippines.
- 2011 April Tuaño, A.P.P., Umemoto, T., Aoki, N., Nakamura, Y., Sawada, T., & Juliano, B.O. (2011 April). Grain quality and properties of starch and amylopectin of intermediate- and low-amylose indica rices, 26th Philippine Chemistry Congress, Cebu City, Philippines.
- 2011 March Tuaño, A.P.P., Xu, Z., Castillo, M.B., Mamaril, C.P., Manaois, R.V., Romero, M.V., & Juliano, B.O. (2011 March). Effect of organic and inorganic fertilizers and pesticides on the content of antioxidants in brown rice, 241st American Chemical Society National Meeting, Anaheim, California, U.S.A.
- 2008 November Roferos, L.T., Tuaño, A.P.P., & Juliano, B.O. (2008 November). Field test for amylose class for rice quality classification, 37th Annual Convention of the Kapisanang Kimika ng Pilipinas - Southern Tagalog, Laguna, Philippines.
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- 2008 March Tuaño, A.P.P., Daygon, V.D., Cuevas, R.P., Reinke, R.F., & Fitzgerald, M. (2008 March). From genetics to structure to function: Gelatinisation temperature of rice starch, Starch 2008: Structure and Functionality, University of Nottingham, UK.

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Gender Male

Organizational Affiliations

Professor, College of Veterinary Medicine, University of the Philippines Los Baños, College, Laguna

Education

Doctor of Philosophy (Theriogenology), Hokkaido University, Sapporo, Hokkaido Prefecture, Japan 1992

Master of Science (Theriogenology), Hokkaido University, Sapporo, Hokkaido Prefecture, Japan 1989

Doctor of Veterinary Medicine, University of the Philippines, Diliman, Quezon City 1974

Fields of Specialization

Veterinary Medicine

Theriogenology

Ruminant Production

Poultry Production

Cryopreservation

Employment

UP Scientist I, University of the Philippines System, 2009-Present

Professor, College of Veterinary Medicine, University of the Philippines Los Baños, 2005-Present

Dean, College of Veterinary Medicine, University of the Philippines Los Baños, 2004 October 1-2007 September 30

Director, Veterinary Teaching Hospital, College of Veterinary Medicine, University of the Philippines Los Baños, 1998-2004

Associate Professor, College of Veterinary Medicine, University of the Philippines Los Baños, 1997-2005

Assistant Professor, College of Veterinary Medicine, University of the Philippines Los Baños, 1993-1997

Senior Agriculturist, Department of Agriculture Region IV, 1989-1993

Officer-in-Charge, Dairy Husbandry Section, Dairy Development Division, Bureau of Animal Industry, Department of Agriculture, 1976-1988

Research Associate, Dairy Training and Research Institute, University of the Philippines Los Baños, 1975-1976

Research Veterinarian, Animal Disease and Parasite Research Division, Bureau of Animal Industry, Department of Agriculture, 1974-1975

Association Membership

Regular Member, National Research Council of the Philippines

Editorial Board, Medicine and Surgery, Philippine Journal of Veterinary and Animal Sciences

President, UPCVM Alumni Association

Honors / Awards

UP Scientist I / UP Diliman International Publication Award, UP System, Diliman, Quezon City 2009

NRCP Achievement Award, National Research Council of the Philippines 2008

Researches

Completed

Studies on the cryopreservation of buffalo semen

Studies on body weight determination of domestic and wild animals

Papers Presented

- 2010 Valdez, C.A. (2010). Food Safety Issues in the Philippines, The 10th Meeting of Asian Association of Veterinary Schools, Graduate School of Veterinary Medicine, Hokkaido University.

Publications

- 2013 Castro, R.G.M., & Valdez, C.A., Body Weight Prediction in Philippine-Born Adult Ostriches (*Struthio camelus* Linnaeus, 1758) (Aves: Struthioniformes: Struthionidae) Using External Body Measurements. *Philippine Journal of Veterinary Medicine*, 2013, 50(2):97-103.
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- 2007 Espaldon, M.V.O., Alcantara, A.J., Sevilla, C.C., Valdez, C.A., Paraso, M.G.V., Alaira, S.A., Dela Cruz, A.E., & Sobremisana, M.J., GIS-aided Study on Environmental Animal Health and Production in Laguna Province, Philippines. University of the Philippines Los Baños, Bureau of Animal Industry and Food and Agriculture Organization, Manila, 2007.
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- 2004 Valdez, C.A., & Valencia, J.P., Weight prediction in medium to large sized adult Philippine native dogs using external body measurements. *The Philippine Journal of Veterinary and Animal Sciences*, 2004, 30:161-169.
- 2003 Valdez, C.A., & Recuenco, F.C., Bodyweight estimation in adult Philippine domestic cat (*Felis catus* L.) using external body measurements. *The Philippine Journal of Veterinary Medicine*, 2003, 40:92-99.

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- 2000 Valdez, C.A., & Bono, R.R., Body weight determination using external body measurements in the Philippine Deer (*Cervus philippinus*). *The Philippine Journal of Veterinary and Animal Sciences*, 2000, 26:1-11.
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- 1997 Valdez, C.A., Tupas, D.G.A., & Matias, J.B., Determination of bodyweight in sheep using external body measurements. *The Philippine Journal of Veterinary Medicine*, 1997, 34:25-32.
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- 1981 Valdez, C.A., Fagan, D.V., & Vicera, I.B., The correlation of bodyweight to external body measurements in goats. *The Philippine Journal of Veterinary and Animal Sciences*, 1981, 7:63-73.

Name Delfin M. Vallador, Sr.

Gender Male

Organizational Affiliations

Professor IV and Chair, Department of Agronomy, Central Mindanao University

Education

Doctor of Philosophy in Agronomy, Central Mindanao University, Musuan, Bukidnon 1998

Fields of Specialization

Seed Technology

Association Membership

Member, National Research Council of the Philippines

Honors / Awards

Special Award (Poster Paper Category), CMU, Musuan, Bukidnon 2005 June 30-July 1

Researches

Completed

Improved and Sustained Forage Production Through Appropriate Forage Variety Selection and Seed Production Technology

Seed Production and Post Harvest Studies on Naturalized Forage Legume

Development and Promotion of Adlay (*Coix lacryma jobi* L.) as an Alternative Food in CMU, Musuan, Bukidnon

Performance Evaluation of Sweet Sorghum Lines for Bio-ethanol and Grains Under Different Ecological Zone

Publications

- 2012 Aradilla, A.R., Detalla, M.E.B., & Vallador, D.M., Sr., CMU-DA-BAR Adlay R and D Project Annual Report: Development and Promotion of Adlai (*Coix lacrymajobi* L.) As Alternative Staple Food. Central Mindanao University. University Town, Musuan, Bukidnon, 2012.
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- 2006 Vallador, D.M., Sr., Seed Processing and Storage. Central Mindanao University, University Town, Musuan, Bukidnon, 2006.

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