

CURRICULUM VITAE

DANILDA HUFANA DURAN
(Given) (Maiden) (Family)



BIRTH DATE / PLACE :

MARCH 19, 1966
Inmalog, San Fabian,
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Sto. Tomas, San Jose City
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CIVIL STATUS: Married

Husband: Peregrino G. Duran

Children: Perry Lorraine(26), Perry Irish(24), Perry Neslynn(22)

PROFESIONAL STATUS/AFFILIATION:

(SG-26) Scientist I & Senior Agriculturist, Reproductive Biotechnology Laboratory, Philippine Carabao Center, Department of Agriculture, Muñoz, Nueva Ecija, 3120 Philippines (On Official Leave)

Scientist I, National Academy of Science and Technology-Scientific Career System, Department of Science and Technology, Taguig, Philippines

Affiliate Faculty, Department of Biological Sciences, College of Arts and Sciences, Central Luzon State University, Muñoz, Nueva Ecija

EDUCATIONAL BACKGROUND:

Post-Doctoral <i>Research:</i> Implementación de biotecnologías reproductivas in vitro para la conservación de carne y leche en ganado bovino.	Universidad Tecnica de Babahoyo, Los Rios, Ecuador	Feb. 9, 2015 – Feb.8, 2016
Post-Doctoral <i>Research:</i> Improving the livability and fertilizing capacity of sex-sorted sperm cells by antioxidants and energy promoting factors for the production of sex pre-determined embryos in vitro	Department of Animal Science, University of Wisconsin-Madison, USA	Nov. 11, 2012-May 10, 2013
Ph.D. Agricultural Science (Reproductive Biotechnology) <i>Dissertation:</i> “Studies for the Improvement of <i>in vitro</i> Culture Systems of Oocytes and	University of Tsukuba Ibaraki, Japan	April 1, 2004 - Jan 31, 2009

Embryos in Water Buffalo”

M. Sc. Agriculture (Animal Science) <i>Dissertation:</i> “Studies on the effects of DMSO on the culture systems of bovine oocytes and embryos in vitro”	Miyazaki University, Miyazaki, Japan	April 1, 1994 - Mar 19, 1996
B.S. Biology (Zoology) <i>Thesis:</i> “Comparative Study on the Effects of Confinement and Tethering Systems of Management on Semen Quality and Some Physiological Responses of Murrah Buffalo Bulls (<i>Bubalus bubalis</i> , Linn.)”	Central Luzon State University Munoz, Nueva Ecija, Philippines	June 1, 1982 – April 18, 1986

LICENSURE

Scientist 1	National Academy of Science and Technology-Scientific Career System, Department of Science and Technology, Taguig, Philippines	May 11, 2013
Agriculturist RN: 0004575	Republic of the Philippines Professional Regulation Commission	2006
Professional	Republic of the Philippines Civil Service Commission	1987
Sub-Professional	Republic of the Philippines National Civil Service Commission	1984

PROFESSIONAL WORK EXPERIENCE

Ministry of Education, Science, Technology, and Innovation Universidad Tecnica de Babahoyo, Los Rios, Ecuador	2/9/2015 to 2/8/2016
Department of Agriculture-PHILIPPINE CARABAO CENTER National Headquarters and Gene Pool, Muñoz, Nueva Ecija <i>Scientist I & Senior Agriculturist</i> (2013-present) <i>Senior Agriculturist</i> (2005 -2013) <i>Science Research Specialist II</i> (1994 – 2005)	1994 to present
UNDP/FAO/Philippine Government Project PHI/78/017: Philippine Carabao Research and Development Program <i>Science Research Analyst</i> (1990-1993) <i>Science Research Assistant</i> (1988-1989) <i>Science Research Aide</i> (1987-1988)	1987 – 1993
Central Luzon State University, Munoz, Nueva Ecija Affiliate Faculty, Institute of Graduate Studies	April 2, 2012 - present
Mary Help of Christians Seminary, Binmaley, Pangasinan Classroom teacher, Biology	June 1986 to March 1987

Additional Work Experiences:

1. **Organizer.** *International Training Course on Mushroom Production for Food and Pharmaceuticals*, Universidad Tecnica de Babahoyo, Los Rios, Ecuador, Dec. 23, 2015 to January 6, 2016.// *International Training Course on the Use of Advance Reproductive Biotechnologies*, Escuela Superior Politecnica Agropecuaria-Manuel Felix Lopez (ESPAM-MFL), Calceta, Manabi, Ecuador, May 23 - June 12, 2015.//
2. **Co-Organizer.** *International Training Course on Dairy Herd Improvement through the Use of Advance Reproductive Biotechnologies*, sponsored by FFTC-ASPAC of Taiwan, DOST and PCC, held at the Philippine Carabao Center, Science City of Munoz, Nueva Ecija 3120 Philippines, July 13-22, 2015.//*Pre-congress training on the use of reproductive biotechniques in water buffaloes* sponsored by JICA & FAO and held at the Philippine Carabao Center on 4-19 October 2004.// *International training course on the use of reproductive biotechniques in cattle and water buffaloes* sponsored by the Food and Fertilizer Technology Center for the Asian and Pacific Region (FFTC-ASPAC) held at Dairy Training Research Institute and Philippine Carabao Center on 5-16 June 2000.
3. **Trainer and Resource Speaker.** *Training Course on Embryo In Vitro Production and Cryopreservation*, Universidad Politecnica Salesiana, Cuenca, Ecuador, January 24-Feb.3, 2016.// *Training Course on Embryo In Vitro Production and Sexing*, ESPAM-MFL, Manabi, Ecuador, Oct. 28-30, 2015.// *Training Course on Vaginal Cytology*, Universidad Tecnica de Babahoyo, Los Rios, Ecuador, March 2-6, 2015.// *International Training Course on Advance Reproductive Biotechnologies*, co-funded by the Universidad Tecnica de Babahoyo and the ESPAM-MFL of Ecuador held on 23 May to 12 June 2015 at ESPAM-MFL, Calceta, Manabi, Ecuador.// *Training course on embryo in vitro production and cryopreservation*. Organized and hosted by the Instituto Nacional Autonomo de Investigaciones Agropecuarias (INIAP)-Ecuador and held on 23-28 April 2013, Department of Biotechnology, Virgen de Fatima, Yaguachi Guayas, Ecuador.//*Third Country Training Program on Livestock Production and Biotechnology Application*, Livestock Breeding and Veterinary Department, Ministry of Livestock and Fisheries of the Union of Myanmar, Japan International Cooperation Agency, 8 January to 21 February 2012, Philippine Carabao Center, Munoz, Nueva Ecija.// *Pre-congress training on the use of reproductive biotechniques in water buffaloes* sponsored by JICA & FAO and held at the Philippine Carabao Center on 4-19 October 2004.// *International training course on the use of reproductive biotechniques in cattle and water buffaloes* sponsored by the Food and Fertilizer Technology Center for the Asian and Pacific Region (FFTC-ASPAC) held at Dairy Training Research Institute and Philippine Carabao Center on 5-16 June 2000.
4. **Team Leader.** *Establishment and operation of Satellite Embryo Biotechnology Laboratory* at the Frigorifico Allana Limited, Aurangabad India: 5 January to 31 March 2001; January to April & September to December 2002. Funded by the PCARRD and DA-PCC.// *Production of high genetics water buffalo embryos by the recent reproductive biotechnologies*. Satellite Embryo Biotechnology Laboratory, Frigorifico Allana Limited, Aurangabad India. January to March 2001 and January to March 2002 and September to December 2002. Funded by the PCARRD and DA-PCC.// *Propagation of Genetically Superior Water Buffaloes through Embryo In Vitro Production (IVP) and Embryo Transfer (ET) Techniques*. Satellite Embryo Biotechnology Laboratory, Frigorifico Allana Limited, Aurangabad India. Funded by the DA-BAR and PDF of Sen. Ramon Magsaysay Jr. January to April 2006.
5. **Project Leader, Livestock Biotechnology Center.** Department of Agriculture BIOTECH Program, Manila, Philippines. October 2014 to January 31, 2015 (Resigned due to trip to Ecuador).// *DABIOTECH-R1404: Improving artificial insemination efficiencies using fertility indexed bulls selected by Fourier Harmonic Analysis and screened from Environmental Instabilities*”, January 2014 – January 31, 2017 (On Official Leave).//*DABAR & PDF of Ramon Magsaysay Project* on “Production of High Genetics Water Buffaloes Through the Use of Embryo In Vitro Production and Transfer Techniques”,

- November 2005 to November 2012.//
6. ***Reviewer of Scientific Papers for Journal Publication. Theriogenology.*** Elsevier Science. 2005 to present. // ***CLARRDEC Science and Technology Journal.*** Central Luzon State University, Philippines. 2010 – present.// ***Iranian Journal of Applied Animal Science,*** Iran. 2014 – present.
 7. ***Chairperson: Oral Scientific Session.*** 2013 Annual Convention of the International Society for Southeast Asian Agricultural Sciences, Inc. (ISSAAS). Manila. 11-15 November 2013. // ***Scientific Paper and Invitation Committee.*** 9th Annual Conference of the Asian Reproductive Biotechnology, Manila, Philippines. 23-28 October 2012.// ***Chair, Invitation Committee & Pre-Congress Training on Reproductive Biotechnologies.*** 7th World Buffalo Congress, Manila, Philippines. 20-23 October 2004.// ***Screening Committee for International Buffalo Knowledge Resource Service.*** Philippine Carabao Center, 12 August 2010 – present.// ***Chemical Spill Team.*** Philippine Carabao Center, 21 November 2011 – present. (On Leave)
 8. ***Moderator, Science Seminar Series for Reg. III: Orientation on Scientific Career System***”. National Academy of Science and Technology. Philippine Carabao Center, Munoz, Nueva Ecija 3 September 2013.// ***Short Talk on Ethical Standards for Researchers and Scientists***”. National Academy of Science and Technology. Philippine Carabao Center, Munoz, Nueva Ecija 3 September 2013
 9. ***Coordinator.*** Production of high genetics water buffaloes by embryo transfer in the villages. Philippine Carabao Center, Munoz, Nueva Ecija. 2001-2009.
 10. ***Unit Head.*** Reproductive Biotechnology Laboratory, Philippine Carabao Center, Munoz, Nueva Ecija. 1996-2004.
 11. ***Internal Auditor.*** ISO 9001-2008, ISO 14001-2004, OHSAS 18001-2008, Philippine Carabao Center, Munoz, Nueva Ecija. 2 January 2005 - present
 12. ***Editorial Staff, PCC Newsletter.*** Philippine Carabao Center, Munoz, Nueva Ecija. 5 September 2000
 13. ***Member, Ad Hoc Committee for Civil Service Commission Awards.*** Philippine Carabao Center, Munoz, Nueva Ecija. 6 March 2009 – present.//***Ad Hoc Committee to Screen R&D Presentation during R& D Review.*** Philippine Carabao Center, Munoz, Nueva Ecija. 14 May 2009.// ***Executive Committee, Asian Buffalo Association.*** Nanning, China, 18-22 April 2006.// ***Training and Scholarship Committee.*** Philippine Carabao Center, Munoz, Nueva Ecija. 11 August 2010.
 14. ***Master of Ceremonies, PCC In House Review.*** Philippine Carabao Center, Munoz, Nueva Ecija. 29-30 May 2012.
 15. ***Special Disbursement Officer, Satellite Embryo Biotechnology Laboratory, Aurungabad, India.*** Philippine Carabao Center, 5 January 2001 to 9 September 2014.
 16. ***Officer-In-Charge,*** PCC Library at Central Luzon State University. Philippine Carabao Center, 2 July 1997 – June 1998

SCIENTIFIC PUBLICATIONS

Book

Hufana-Duran and PG Duran. *Tecnicas Avanzadas de Reproduccion en Buffalos de Agua*, 1st Edition. Universidad Tecnica de Babahoyo, Los Rios, Ecuador. 2016. 71 pp.

Book Chapter

Hufana-Duran D and PG Duran. *Advance Reproductive Technologies in Water Buffalo*. In: *Bubaline Theriogenology*, Purohit G.N. (Ed.). International Veterinary Information Service, Ithaca NY (www.ivis.org), Last updated: 30-Sep-2015; A5731.0915

Scientific Journals

As Main Author:

1. **Hufana-Duran D**, R Mallari, D Suba, P Duran, E Abella and F Mamuad. Hypo-Osmotic Swelling Test for Membrane Integrity Evaluation of Frozen-thawed Water Buffalo (*Bubalus Bubalis*, Linn.) Spermatozoa. *Philippine Journal of Science* 2015; 144(2): <http://philjournalsci.dost.gov.ph/> (*ISI Journal*)
2. **Hufana-Duran D**, RP Mallari, DP Suba, PG Duran, EA Abella, LC Cruz. Comparison of different osmolarities and sugar-salt solutions for hypo-osmotic swelling test of frozen-thawed water buffalo spermatozoa. *Philippine Journal of Veterinary and Animal Science* 2014; 40(2):97-108. (*ISI Journal*)
3. **Hufana-Duran D**, PG Duran, Y Kanai, FV Mamuad, LC Cruz and V. Jamsawat. The effects of sequential media system in the production of water buffalo embryo in vitro. *Rajamangala University of Technology Tawan-ok Research Journal* 2014; 7(2):119-123.
4. **Hufana-Duran D**, PG Duran, EP Atabay, Y Kanai, Y Takahashi, and LC Cruz. External parametric indicators of in vitro developmentally competent water buffalo oocytes. *Reproduction, Fertility and Development* 2010; 23(1) 156-156 doi:10.1071/RDv23n1Ab101 (*ISI Journal*)
5. **Hufana-Duran D**, PG Duran, LC Cruz. Reproductive Biotechnology of water buffaloes in the Philippines: Developments and Challenges. *Pakistan Journal of Zoology* 2009; 9: 1-13. (*ISI Journal*)
6. **Hufana-Duran D**, EP Atabay, PG Duran, EC Atabay, Y Takahashi, Y Kanai, L. Cruz, Selection of water buffalo oocytes with developmental competence in vitro. *Philippine Journal of Veterinary and Animal Sciences* 2008; 34:149-158. (*ISI Journal*)
7. **Hufana-Duran D**, PB Pedro, AL Salazar Jr, HV Venturina, PG Duran, Y Takahashi, Y Kanai, LC Cruz. Twin calf production in water buffaloes following non-surgical transfer of in vitro-produced-vitrified embryos. *Philippine Journal of Science* 2008; 137: 99-104. (*ISI Journal*)
8. **Hufana-Duran D**, PB Pedro, AL Salazar, HV Venturina, PG Duran, LC Cruz. River buffalo calves (2n=50) delivered to term by swamp buffalo recipients (2n=48) out of in vitro-derived vitrified embryos. *Livestock Science* 2007; 107: 213-219. (*ISI Journal*)
9. **Hufana-Duran D**, PB Pedro, HV Venturina, PG Duran, LC Cruz. Fullterm development of in vitro produced-vitrified water buffalo (*Bubalus bubalis*) embryos. *Philippine Journal of Science* 2005; 134: 89-94. (*ISI Journal*)
10. **Hufana-Duran D**, PG Duran, Y Kanai, Y Takahashi, LC Cruz. Effect of density gradient sperm separation technique on in vitro fertilization potential of frozen semen from bulls with low sperm motility. *Philippine Agriculture Scientist* 2005; 88: 257-267. (*ISI Journal*)
11. **Hufana-Duran D**, PB Pedro, HV Venturina, RD Hufana, AL Salazar Jr, PG Duran, LC Cruz. Post-warming hatching and birth of live calves following transfer of in vitro-derived vitrified water buffalo (*Bubalus bubalis*) embryos. *Theriogenology* 2004; 61: 1429-1439. (*ISI Journal*)
12. **Hufana-Duran D**, PB Pedro, HV Venturina, RD Hufana, FA Venturina, AL Salazar Jr, RV de Vera, PG Duran, LC Cruz. Full-term development of buffalo embryos from in vitro

matured and fertilized oocytes. *Animal Husbandry and Agriculture Journal* 2002; 36:8-14.

13. **Hufana-Duran D**, FP Aquino, RV de Vera, PB Pedro, LC Cruz. Effects of some physical parameters on embryo development of buffalo oocytes matured and fertilized in vitro. *Philippine Journal of Veterinary and Animal Science* 1998; 24:54-64. (**ISI Journal**)
14. **Hufana-Duran D**, FP Aquino, RV de Vera, PB Pedro, LC Cruz. Some physical factors affecting development of buffalo oocytes matured and fertilized in vitro. *Korean Journal of Animal Reproduction* 1998; 21:265-272.
15. **Hufana D**, J Bautista, FV Mamuad, PG Duran, HV Venturina, MF Pineda. A comparative study on the effects of confinement and tethering systems of management on semen quality and some physiological responses of Murrah buffalo bulls (*Bubalus bubalis*, Linn.). *Philippine Journal of Veterinary and Animal Science* 1986; 12:69-70. (**ISI Journal**)

As Co-Author:

16. Duran PG, HLV Corpuz, DCA Gaspar, CM Misola, MP Munar, **D Hufana-Duran**. Non-invasive clinical diagnosis of estrus for AI synchronization using vaginal cytology in three bubaline breeds in the Philippines. *Research Journal of Pharmaceutical, Biological and Chemical Sciences* 2015; 6:562-567. (**ISI Journal**)
17. Cajuday LA, Herrera AA, **Hufana-Duran D**. Carbohydrate Uptake in Water Buffalo Cumulus-Oocyte Complexes (COCs) Supplemented With Retinoic Acid During In Vitro Maturation. *Philippine Journal of Science* 2014; 143(1):44-50. (**ISI Journal**)
18. Aquino F, EP Atabay EP, EC Atabay, M Ocampo, PG Duran, PB Pedro, **DH Duran**, RV de Vera, LC Cruz. In vitro embryo production and transfer of bubaline embryos using oocytes derived from transvaginal ultrasound-guide follicular aspiration (TUFA). *Buffalo Bulletin* 2013; 32:545-548 (**ISI Journal**)
19. Ocampo LC, **DH Duran**, PB Pedro, FP Aquino, EP Atabay, MB Ocampo, ES Maylem, PG Duran, LC Cruz. Developmental competence of water buffalo oocytes in vitro in single base medium-synthetic oviductal fluid. *Buffalo Bulletin* 2013; 32:551 (**ISI Journal**)
20. Cajuday LA, AA Herrera, **D Hufana-Duran**. Effect of retinoic acid on the development of water buffalo embryos in vitro. *Philippine Journal of Veterinary and Animal Science* 2012, 38 (2): 107-116. (**ISI Journal**)
21. Atabay EP, EC Atabay, RV de Vera, FP Aquino, **DH Duran**, and LC Cruz. Effects of holding water buffalo and bovine ovaries at various temperatures during transport and storage on in vitro embryo production. *Philippine Journal of Veterinary and Animal Science* 2010; 33(1): 81-93.
22. Atabay EP, EC Atabay, FP Aquino, **DH Duran**, RV de Vera, LC Cruz. Cryopreservation of in vitro matured buffalo (*Bubalus bubalis*) oocytes by slow freezing or vitrification. *Philippine Journal of Veterinary Medicine* 2010; 47:103-109. (**ISI Journal**)
23. Yoshizawa M, **DH Duran**, E Atabay, PG Duran, LC Cruz, Y Kanai, Y Takahashi. Incidence of chromosomal abnormalities in early-stage river buffalo embryos derived from in vitro fertilization. *J Mamm Ova Res* 2010; 27; 157-160. (**ISI Journal**)

24. Atabay EC, EP Atabay, **DH Duran**, RV de Vera, FV Mamuad, LC Cruz. Comparison of fertilization and nuclear transfer techniques in the production of buffalo pre-implantation embryos. *Ital.J.Anim.Sci.* 2007; 6 (2): 246-252. **(ISI Journal)**
25. Atabay EC, EP Atabay, **DH Duran**, RV De Vera, FV Mamuad, LC. Cruz. Comparison of in vitro fertilization and somatic cell nuclear transfer techniques in the production of buffalo pre-implantation embryos. *Philippine Journal of Veterinary and Animal Science* 2006; 33: 29-38. **(ISI Journal)**
26. Atabay EP, EC Atabay, **DH Duran**, RV De Vera, LC. Cruz. Enhanced developmental competence of buffalo oocytes in the presence of hormones and epidermal growth factor during in vitro maturation. *Philippine Journal of Veterinary and Animal Science* 2006; 32: 155-166. **(ISI Journal)**
27. Hufana, BB, **DH Duran**, RH Hufana, PG Duran, EP Garillo, LC Cruz. 2001. Effect of time on in vitro maturation and embryo development of buffalo oocytes. *Philippine Journal of Veterinary and Animal Science* 2001, 27: 101-109. **(ISI Journal)**
28. Tsuzuki Y, **DH Duran**, M Sawamizu, K Ashizawa, N Fujihara, The effects of Dimethyl Sulfoxide added to the fertilization medium on the motility and the acrosome reaction of spermatozoa and the subsequent development of oocytes in bovine. *Asian-Australian Journal of Animal Science* 2000; 13: 739-747. **(ISI Journal)**
29. Tsuzuki Y, **DH Duran**, Y Kuroki, F Uehara, K Ashizawa, N Fujihara. The Effects of Dimethyl-Sulfoxide on the In Vitro Maturation and Fertilization of Bovine Oocytes and the Subsequent Development. *Asian-Australian Journal of Animal Science* 1998; 11:307-310. **(ISI Journal)**
30. Florendo PC, DL Aquino, **DH Duran**, ND Lorenzo, FP Aquino, SM Lorenzo, FV Mamuad. Development and utilization of urea-molasses mineral block (UMMB) lick for milk production of buffaloes. *Buffalo Bulletin* 1995; 14:87. **(ISI Journal)**
31. Aquino DL, PC Florendo, **DH Duran**, AY Robles. The effect of treated and untreated copra meal supplementation on in situ dry matter disappearance, protein degradability and total VFA production in rumen fistulated buffaloes. *Philippine Journal of Veterinary and Animal Science* 1992; 19:70. **(ISI Journal)**
32. Florendo PC, DL Aquino, **DH Duran**, LC Cruz. Development and utilization of urea-molasses mineral block for growth and milk production performance of water buffaloes. *Philippine Journal of Veterinary and Animal Science* 1991; 18:72. **(ISI Journal)**
33. Francisco LC, **DH Duran**, FP Adriano, RF Cuaresma. Acceptability of crossbred carabao as draft, meat and milk animals among farmers in Nueva Ecija and Bulacan. *Philippine Journal of Veterinary and Animal Science* 1991; 17:61. **(ISI Journal)**
34. Cruz LC, PG Duran, HV Venturina, E Aquino, **D Hufana**, F. Rellin, OF Smith. Ovarian responses and pregnancy rate of carabaos treated with PGF₂alpha followed by GnRH and AI at one pre-determined time. *Philippine Journal of Veterinary and Animal Science* 1988; 16:120. **(ISI Journal)**

Scientific Proceedings/Newsletters/Field Documents;

As Main Author:

35. **Hufana-Duran D.** Advance reproductive biotechnologies as tool for water buffalo genetic improvement in the Philippines. In: *Pror 2014 ISSAAS International Congress & General Meeting*. Tokyo University of Agriculture, Tokyo Japan. November 8-10, 2014. Pp. 100
36. **Hufana-Duran D,** R Monson, PG Duran, J Parrish, FV Mamuad, LC Cruz. Motility characteristics of ejaculated bovine spermatozoa in L-carnitine supplemented tris egg yolk extender. In: *Proc. The 11th Annual Conference of the Asian Reproductive Biotechnology Society*. Bangkok, Thailand. Novemebr 2-8, 2014. Pp.8.
37. **Hufana-Duran D,** PG Duran, and LC Cruz. Production of genetically superior water buffaloes through embryo in vitro production (IVP) and Embryo transfer (ET) techniques. *Proc 2th Japanese Society for the Promotion of Science Alumni Association of the Philippines Scientific Symposium and General Assembly, 11 July 2014, Manila, Philippines, Pp.22. Abstr*
38. **Hufana-Duran D,** R Monson, PG Duran, J Parrish, and LC Cruz. Motility characteristics of ejaculated bovine spermatozoa in L-carnitine supplemented tris egg yolk extender. *Trans. Nat. Acad. Sci. & Tech. (Philippines) 2014; 36(1):77. Abstr (Best Scientific Poster during the 36th Annual Meeting of NAST).*
39. **Hufana-Duran D,** PG Duran, PB Pedro, M Yoshizawa, LC Cruz. Hypoosmotic swelling test to check the functional integrity of water buffalo spermatozoa. *Abstracts of AFMA R&D Papers, 26th DA-BAR National Research Symposium, 10-11 October 2013. pp. 16. Abstr*
40. **Hufana-Duran D,** RP Mallari, DP Suba, PG Duran, EA Abella, and LC Cruz. Comparison of different osmolarities and sugar-salt solutions for hypoosmotic swelling test of frozen-thawed water buffalo spermatozoa. *Proc. 50th PSAS Scientific Seminar and Annual Convention, 22-25 October, 2013. Pp. 6. Abstr*
41. **Hufana-Duran D,** R Monson, PG Duran, J Parrish, and LC Cruz. Improved in vitro embryo production in bovine by L-carnitine supplementation in the IVF medium. *Book of Abstracts, 2013 ISSAAS International Congress & General Meeting, 11-15 November 2013, Manila, Philippines. Pp. 44 Abstr*
42. **Hufana-Duran D,** ER Maylem, M Eduardo, DG Ignacio, C Catacutan, PG Duran, LC Cruz. Effect of L-carnitine supplementation in IVF medium on the motility, livability and fertility of frozen-thawed water buffalo spermatozoa. *In: 9th Annual Conference of Asian Reproductive Biotechnology Society, 23-28 October 2012, Manila, Philippines. Pp. 74. Abst*
43. **Hufana-Duran D,** ER Maylem, R Mallari, D Suba, PG. Duran, LC Cruz. Motility, livability, and fertility of water buffalo frozen-thawed sperm cells at extended in-straw condition. *In: 9th Annual Conference of Asian Reproductive Biotechnology Society, 23-28 October 2012, Manila, Philippines. Pp. 75. Abst*
44. **Hufana-Duran D,** R Mallari, ER Maylem, D Suba, PG Duran, LC Cruz. Performance of frozen-thawed water buffalo spermatozoa on varying time and temperature under hypo-osmotic swelling test. *In: 9th Annual Conference of Asian Reproductive Biotechnology Society, 23-28 October 2012, Manila, Philippines. Pp. 66. Abst*
45. **Hufana-Duran D,** PG Duran, Y Takahasi, Y Kanai, LC Cruz. Effect of the presence of

pyruvate and lactate with increasing concentration of serum and addition of glucose to a basic medium, TCM 199, on the production of water buffalo embryos in vitro. In: *Philippine Society for Developmental Biology 3rd Annual Convention, 20 Aug 2011, NISMED Auditorium, University of the Philippines, Diliman, Quezon City. Pp. 29 Abstr*

46. **Hufana-Duran D**, PG Duran, PB Pedro, M Yoshizawa, LC Cruz. Required time of vinblastin treatment and incidence of chromosomal abnormalities in pre-implantation stage water buffalo embryo derived from in vitro maturation and fertilization of oocytes. *Abstracts of AFMA R&D Papers, 23rd DA-BAR National Research Symposium, 10-11 October 2011. pp. 16 Abstr*
47. **Hufana-Duran D**, PG Duran, Y Tsuzuki, Y Takahashi, Y Kanai, LC Cruz. Effect of the presence of pyruvate and lactate with increasing concentration of serum and addition of glucose to a basic medium, TCM 199, on the production of water buffalo embryos in vitro. *Proc. of the 8th Annual Conference of the Asian Reproductive Biotechnology Society, Guilin, China, 25-30 October 2011. pp. 22 Abstr*
48. **Hufana-Duran D**, PG Duran, FV Mamuad, V Jamsawat, C Saetung, LC Cruz. The use of reproductive biotechnologies in the production of genetically superior water buffalo embryos. *Proc 3rd Rajamangala University of Technology International Conference, Pattaya, Thailand, 14-16 December 2011. Pp. 85-91.*
49. **Hufana-Duran D**, PG Duran, PB Pedro, M Yoshizawa, LC Cruz. Required time of vinblastine treatment and incidence of chromosomal abnormalities in preimplantation stage in vitro-derived water buffalo embryo”. *Proc 3rd Rajamangala University of Technology International Conference, Pattaya, Thailand, 14-16 December, 2011. Pp. 226 Abstr*
50. **Hufana-Duran D**, PG Duran, Y Kanai, Y Takahashi, LC Cruz. External parametric indicators of in vitro developmentally competent water buffalo oocytes, *Proc 3rd Rajamangala University of Technology International Conference, Pattaya, Thailand, 14-16 December, 2011. Pp. 227 Abstr*
51. **Hufana-Duran D**. The exciting world of in vitro production of embryos. Abstract and Souvenir Program, *2nd Annual Convention of Philippine Society of Developmental Biology, NISMED Auditorium, University of the Philippines, Diliman, Quezon City, August 21, 2010. pp. 10. Abstr*
52. **Hufana-Duran D**. Ultrastructure of immature water buffalo oocytes of different quality and morphology. Abstract and Souvenir Program, *2nd Annual Convention of Philippine Society of Developmental Biology, NISMED Auditorium, University of the Philippines, Diliman, Quezon City, August 21, 2010. pp. 28. Abstr*
53. **Hufana-Duran D**, PNH Duran, HM Vililia, RAB Manzano, EP Atabay, LC Cruz. Effect of medium supplement and storage temperature on Motility and Longevity of Frozen-Thawed Buffalo Spermatozoa. In: *Recent Developments in Animal Production – 2010. Proceedings of the 47th Scientific Seminar and Annual Convention of the Philippine Society of Animal Science, Davao, Philippines, 20-22 October 2010. Abstr*
54. **Hufana-Duran D**, PG Duran, EP Atabay, Y Kanai, Y Takahashi, LC Cruz. External parametric indicators of in vitro developmentally competent water buffalo oocytes. *Trans. Nat. Ac. Sci. Tech. Philippines 2010: 32 (1):33. Abstr*
55. **Hufana-Duran D**, PG Duran, EP Etabay, Y Kanai and LC Cruz. The effects of sequential

media system in the production of water buffalo embryos in Vitro. *In: Recent Developments in Animal Production – 2009. Proceedings of the 46th Scientific Seminar and Annual Convention of the Philippine Society of Animal Science, 20-23 October 2009, Cebu, Philippines.*

56. **Hufana-Duran D.** 2009. Studies for the improvement of in vitro culture systems of oocytes and embryos in water buffaloes. <http://www.tulips.tsukuba.ac.jp/limedia/dlam/B28/B2871346/1.pdf>
57. **Hufana-Duran D.** Technical Aspect of In Vitro Embryo Production. <http://www.agnet.org/library.php?func=view&id=20110801170413>
58. **Hufana-Duran D.** Studies for the Improvement of in vitro Culture Systems of Oocytes and Embryos in Water Buffalo. Ph.D. Dissertation, University of Tsukuba, Ibaraki, Japan. November, 2008; 171 pp.
59. **Hufana-Duran D.** Studies for the improvement of in vitro culture systems of oocytes and embryos in water buffaloes. *Ph.D. Dissertation, Univesity of Tsukuba, Ibaraki, Japan, November 2008. 171 pp.* <http://www.tulips.tsukuba.ac.jp/limedia/dlam/B28/B2871346/1.pdf>
60. **Hufana-Duran D.** Studies for the improvement of in vitro culture systems of oocytes and embryos in water buffaloes. In: JSPS RONPAKU (Dissertation Ph.D.) Program Abstracts of Dissertation for FY 2008, Japanese Society for the Promotion of Science 2008; 38-40. <http://www.jsps.go.jp/english/e-ronpaku/2008/17-DOST-Danilda.pdf>
61. **Hufana-Duran D,** EP Atabay, PG Duran, EC Atabay, Y Takahashi, Y Kanai, LC Cruz. Selection of water buffalo oocytes with developmental competence in vitro. *In: Recent Developments in Animal Production – 2007. Proceedings of the 44rd Scientific Seminar and Annual Convention of the Philippine Society of Animal Science, 18-19 October 2007, Manila, Philippines. pp.62 Abstr*
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AWARDS/SPECIAL CITATIONS:

Distinguish Awards:

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PSAS-Bounty Agro Ventures Inc. Distinguished Researcher Award in Animal Science. 51st PSAS Scientific Seminar and Annual Convention and 2nd Philippine Native Animal Development (PNAD) Summit, Grand Caprice Convention Center, Lim Ket Kai Center, Lapasan, Cagayan de Oro City, October 24, 2014.

PCC-Most Outstanding Employee: Conferment as Scientist I. Philippine Carabao Center 21st Year Anniversary, Munoz, Nueva Ecija. 24-27 April 2014.

Recognition for the Conferment as Scientist I. CLSU Alumni Association, Munoz, Nueva Ecija. 10 December 2013.

Achievement Awardee, Central Luzon State University Alumni Association, Inc. CLSU Grand Alumni Homecoming and General Assembly, CLSU, Munoz, Nueva Ecija, 24 April 2010.

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Most Outstanding Graduate of BS Biology Class 1986. A tribute from the Faculty of Biological Science and the BS Biology Alumni Association, Central Luzon State University, Munoz, Nueva Ecija. 27 March 1993.

Special Citations:

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Best Paper Awards:

Best Scientific Poster (Biological Science). 36th Annual Scientific Meeting, National Academy of Science and Technology, 9-10 July 2014, PICC, Manila.

2013 Finalist. AFMA R&D Paper Award (Main Author & Presenter: Hypoosmotic swelling test to check the functional integrity of plasma membrane of water buffalo spermatozoa). 25th National Research Symposium, Department of Agriculture-Bureau of Agricultural Research. 16-17 October 2013.

2011 Third Place, Best Poster Presentation. Promising Agricultural Biotechnologies Poster Presentation Contest (Main Author & Presenter: Embryo in vitro production, vitrification and transfer technology). 7th National Biotechnology Week, Department of Agriculture, DENR, Manila, 21-26 November 2011

2011 Finalist, Basic Research Category (Main Author & Presenter: Required time of vinblastin treatment and incidence of chromosomal abnormalities in pre-implantation stage wáter buffalo embryo derived from in vitro maturation and fertilization of oocytes). 23th

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2011 Best Paper Award, Category: Completed Research (Co-Author and Adviser: Effect of all-trans retinoic acid during in vitro maturation on the development, carbohydrate uptake and midkine expression in water buffalo oocytes). In-House Review of On-Going and Completed Researches, Philippine Carabao Center, SC of Muñoz, Nueva Ecija. 23-25 May 2011.

2009 Best Paper Award: Anatomy and Physiology Category (Co-Author: The effects of holding water buffalo and bovine ovaries at various temperatures during transport and storage on in vitro embryo production). 46th Annual Convention and Scientific Seminar of the Philippine Society of Animal Science. Manila. 19-20 October 2009.

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2006 Best Paper Award: Anatomy and Physiology Category (Co-Author: Comparison of in vitro fertilization and somatic cell nuclear transfer techniques in the production of buffalo pre-implantation embryos). 43rd Annual Convention and Scientific Seminar of the Philippine Society of Animal Science. Boracay, Aklan. 18-21 October 2006

2005 Best Paper Award, 2nd Place – Development Category (Main Author & presenter: Propagation of river buffalo calves (2n=50) using swamp buffaloes (2n=48) as surrogate mothers of in vitro produced vitrified embryos). National Symposium on Agriculture and Resources Research and Development (NSARRD), PCARRD, Los Baños, Laguna. 10 November 2005.

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2005 Best Paper Award, 1st Place – Development Category (Main Author and presenter: Propagation of river buffalo calves (2n=50) using swamp buffaloes (2n=48) as surrogate mothers of in vitro produced vitrified embryos). 16th Regional Symposium on Research and Development Highlights. Pampanga Agricultural College, Magalang, Pampanga. 3 August

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2004 Best Research Paper Award, 3rd Place (Main Author & presenter: Effect of density gradient sperm separation technique on in vitro fertilization potential of frozen semen from bulls with low sperm motility). National Symposium on Agriculture and Resources Research and Development (NSARRD), PCARRD, Los Baños, Laguna. 10 November 2004.

2004 Best Paper Award, 1st Place – Research Category (Main Author & presenter: Effect of density gradient sperm separation technique on in vitro fertilization potential of frozen semen from bulls with low sperm motility). 15th Regional Symposium on Research and Development Highlights. PhilRice, Maligaya, Science City of Muñoz, Nueva Ecija. 2-3 August 2004.

2004 Best Poster Award, 1st Place (Main Author: Enhanced production of twin calves by embryo in vitro production and transfer techniques). 15th Regional Symposium on Research and Development Highlights. PhilRice, Maligaya, Science City of Muñoz, Nueva Ecija. 2-3 August 2004.

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2000 Best Paper Award, 1st Place, "Undergraduate Thesis Category", (Co-Advisor/Co-Author: Effect of time on in vitro maturation and embryo development of buffalo oocytes". 37th Annual Convention of Philippine Society of Animal Science, Heritage Hotel, Manila. 18 October 2000.

1999 Best Paper Award, 1st Place, Buffalo Category, (Co-Author: Cryopreservation of in vitro produced swamp buffalo blastocysts by vitrification method." 36th Annual Convention of Philippine Society of Animals Science, Heritage Hotel, Manila. 18 October 1999.

1997 Best Paper Award, 1st Place, "Buffalo Category" (Main Author & Presenter: Effects of some physical parameters on embryo development of buffalo oocytes matured and fertilized in vitro). 34th Annual Convention of Philippine Society of Animal Science, PICC, Manila. 24 October 1997.

1990 Best Paper Award, 1st Place, "Large Ruminant Category" (Co-Author). 27th Annual Convention of Philippine Society of Animal Science, PICC, Manila. 31 October 1990.

1988 Best Paper Award, 1st Place, Large Ruminant Category (Co-Author: Ovarian Responses and Pregnancy Rate of Carabaos Treated with PGF₂alpha Followed by GnRH and AI at One Pre-Determined Time). 25th Annual Convention of Philippine Society of Animal Science, SEARCA, Los Baños, Laguna. 17 November 1988.

CONFERENCES/TRAININGS AS INVITED LECTURER/SPEAKER/PRESENTER:

International:

1. **Invited Expositor.** III Seminario Taller de Biotecnologia Molecular Aplicada. Escuela Superior Politecnica Agropecuaria de Manabi-Manuel Felix Lopez, 28-30 Octubre 2015.
2. **Invited Resource Speaker.** 2014 International Congress and General Meeting, International Society of Southeast Asian Agricultural Sciences, Tokyo, Japan. November 8-10, 2014.
3. **Paper Presenter.** 11th International Conference of the Asian Reproductive Biotechnology Society, Bangkok, Thailand. November 2-8, 2014.
4. **Invited Resource Speaker.** Training Course on Reproductive Biotechnologies. Instituto Nacional Autonomo de Investigaciones Agropecuarias, Virgen de Fatima, Yaguachi, Ecuador. 18-28 April 2013.
5. **Paper Presenter.** 10th Annual Conference of the Asian Reproductive Biotechnology Society, Phan Thiet, Vietnam. 19-25 August 2013.
6. **Presenter.** 2013 Annual Convention of the International Society for Southeast Asian Agricultural Sciences, Inc. (ISSAAS). Manila. 11-15 November 2013.
7. **Invited Resource Speaker.** Interactive and Informative Discussion on Embryo Transfer Technology. Sandeep Steels, Mumbai, India. 17 August 2012
8. **Poster Presenter.** 9th Annual Conference of the Asian Reproductive Biotechnology Society (ARBS), Manila, Philippines. 23-28 October 2012
9. **Invited Resource Speaker.** Seminar Consultation Meeting on Environmental Management and Livelihood Opportunities. Sanguniang Bayan Conference Hall, Mulanay, Quezon. 4 June 4, 2011
10. **Paper Presenter.** 8th Annual Conference of the Asian Reproductive Biotechnology Society, Guilin, China. 25-30 October 2011.
11. **Invited Resource Speaker/Panelist.** 3rd Rajamangala University of Technology International Conference, Pattaya, Thailand. 14-16 December 2011.
12. **Poster Presenter.** 7th Annual Conference of the Asian Reproductive Biotechnology Society (ARBS), Equatorial Hotel, Kuala Lumpur, Malaysia. 8-10 November 2010
13. **Invited Speaker.** AUN/SEED-net 1st Regional Symposium on Biotechnology, Traders Hotel, Pasay. 30-31 July 2009.
14. **Invited Keynote Speaker.** 6th Asian Buffalo Congress with theme “Buffalo-prospective animal for milk and meat enterprise”, Lahore Pakistan. 27-30 October 2009. <http://abc2009.org/committee/>

15. **Invited Speaker.** 5th Asian Buffalo Association Congress, Nanning China. 18-22 April 2006.
16. **Invited Lecturer** by Dr. Midori Yoshizawa at Utsunomiya University, Japan. 5-7 October 2006
17. **Invited Resource Speaker.** Scientific Research Forum. Department of Trade and Industry, International Building, 375 Sen. Gil Puyat Avenue, Makati City. 17 November 2006
18. **Invited Speaker.** Forum on Scientific Research Outputs of JSPS RONPAKU Fellows. Department of Science and Technology. 25 November 2005.
19. **Resource Speaker and Trainer.** International training course on the use of reproductive biotechniques in water buffaloes organized by the World Buffalo Federation and sponsored by Japan International Cooperation Agency held at Philippine Carabao Center, Muñoz , Nueva Ecija. 4-19 October 2004.
20. **Paper Presenter.** 7th World Buffalo Congress, Manila Philippines. 20-23 October 2004.
21. **Paper Presenter.** 9th International Congress on Biotechnology in Animal Reproduction, Tamilnadu, India. 2-4 December 2002.
22. **Invited Lecturer** by Dr. Hon Taek Lee at Konkuk University, Seoul Korea. 10-15 December 2001.
23. **Paper Presenter.** 3rd Asian Buffalo Congress, Kandy, Sri Lanka. 27-31 March 2000.
24. **Resource Speaker and Trainer.** International training course on the use of reproductive biotechniques in cattle and water buffaloes sponsored by the Food and Fertilizer Technology Center for the Asian and Pacific Region (FFTC-ASPAC) held at Dairy Training Research Institute and Philippine Carabao Center. 5-16 June 2000.
25. **Invited Speaker.** 4th Asian Symposium on Animal Biotechnology, Kamiina, Japan. 7-9 October 1998.
26. **Paper presenter.** 5th World Buffalo Congress, Caserta, Italy. 13-16 October 1997.
27. **Invited Panelist. DOST/PCARRD Media Conference.** Philippine Council for Agriculture, Forestry, and Resources Research and Development. 11 November 1997.
28. **Paper Presenter.** International Congress on Animal Reproduction, Darling Harbor, Sydney, Australia. 30 June – 4 July 1996.
29. **Paper Presenter.** 90th Annual Convention of the Japanese Society of Zootechnical Science, Miyazaki, Japan. 29-30 March 1995.
30. **Paper Presenter.** 6th Annual Convention of the West Japan Society of Embryo Transfer, Kagoshima, Japan. 28-29 November 1995.

Local:

31. **Invited Resource Speaker.** 2014 Annual Scientific Conference of the Philippine Association of Career Scientist, Richmond Hotel, Manila, Philippines October 1, 2014.

32. **Invited Resource Speaker.** Seminar-Workshop on Cell and Molecular Techniques, Department of Biological Sciences, Central Luzon State University, Munoz, Nueva Ecija. 23 March 2014.
33. **Paper Presenter, “Hypoosmotic swelling test to assess the functional membrane integrity of frozen-thawed water buffalo spermatozoa”.** 2013 PCC In-House Review. Philippine Carabao Center, Munoz, Nueva Ecija. 29-30 May 2013.
34. **Paper Presenter. “Hypoosmotic swelling test to check the functional integrity of plasma membrane of buffalo spermatozoa”.** 25th National Research Symposium, DA-BAR, Diliman, Quezon, City. 16-17 October 2013.
35. **Paper Presenter, “Comparison of different osmolalities and sugar-salt solutions for hypoosmotic swelling test of frozen-thawed water buffalo spermatozoa”.** 50th PSAS Annual Seminar and Scientific Convention. Tagaytay, Cavite. 22-24 October 2013.
36. **Invited Plenary Speaker.** 2012 Annual Convention and Scientific Meeting of the Philippine Society for Cell Biology. University of the Philippines-Diliman, Quezon City. 18-19 October 2012.
37. **Invited Resource Speaker.** “Seminar Consultation Meeting on Environmental Management and Livelihood Opportunities”, Local Government of Mulanay, Quezon. 4 June 2011
38. **Invited Resource Speaker, “Embryo Technology: Developments and Trends”.** Department of Biological Sciences, Central Luzon State University, CLSU Auditorium, 9 September 2011.
39. **Paper Presenter, “Required time of vinblastine treatment and incidence of chromosomal abnormalities in pre-implantation stage water buffalo embryo derived from in vitro maturation and fertilization”.** 23rd DA-BAR National Research Symposium. 10-11 October 2011.
40. **Poster Presenter.** 7th National Biotechnology Week, Department of Agriculture, DENR, Manila. 21-26 November 2011
41. **Paper Presenter.** 2010 In House Review and Research Management Forum, PCC, Muñoz, Nueva Ecija. 26-28 March 2010.
42. **Poster Presenter.** 32nd Annual Scientific Meeting, NRCP, Manila Hotel. 14-15 July 2010.
43. **Invited Speaker.** 2nd Annual Convention of Philippine Society of Developmental Biology, NISMED Auditorium, University of the Philippines, Diliman, Quezon City. 21 August 2010.
44. **Paper Presenter.** 47th PSAS Scientific Seminar and Annual Convention, Davao City, Philippines. 20-22 October 2010.
45. **Paper Presenter.** 2009 R&D In House Review and Workshop, PCC, Muñoz, Nueva Ecija. 27-29 March 2009.
46. **Paper Presenter.** 46th PSAS Annual Scientific Convention, Cebu Grand Hotel, Cebu City. 21-23 October 2009.

47. **Invited Resource Speaker.** 2008 Seminar Series. Philippine Carabao Center, Muñoz, Nueva Ecija. 12 February 2008.
48. **Paper Presenter.** 2008 R&D In House Workshop and Review, PCC, Muñoz, Nueva Ecija, 26-27 May 2008.
49. **Paper Presenter.** 44th PSAS Annual Convention and Scientific Seminar, CSB International Conference Center & Hotel, Manila, 19-20 October 2007.
50. **Invited Resource Speaker.** DOST-JSPS-PRF S&T Workshop: Sharing the knowledge and resources through collaborative research and development initiatives. SEAFDEC, Iloilo City, 19 December 2007.
51. **Paper Presenter.** 43rd Scientific Seminar and Annual Convention of the Philippine Society of Animal Science, Eco Village Training Center, Boracay Island Aklan, Panay Island, Philippines. 18-20 October 2006.
52. **Invited Resource Speaker.** Scientific Research Forum. Department of Trade and Industry, International Building, 375 Sen. Gil Puyat Avenue, Makati City. 17 November 2006
53. **Paper Presenter.** 16th Regional Symposium on Research and Development Highlights. Pampanga Agricultural College, Magalang, Pampanga. 3 August 2005.
54. **Invited Resource Speaker.** 2005 Philippine Society of JSPS RONPAKU Fellows First Continuing Scientific Education Series. Cancer Institute, Philippine General Hospital., Manila. 9 November 2005.
55. **Paper Presenter.** National Symposium on Agriculture and Resources Research and Development (NSARRD), PCARRD, Los Baños, Laguna. 10 November 2005.
56. **Invited Resource Speaker.** Forum on Scientific Research Outputs of JSPS RONPAKU Fellows, Executive Lounge, Department of Science and Technology, DOST Complex, Bicutan, Taguig. 25 November 2005.
57. **Paper and Poster Presenter.** 15th Regional Symposium on Research and Development Highlights. PhilRice, Maligaya, Science City of Muñoz, Nueva Ecija. 2-3 August 2004.
58. **Invited Guest Speaker.** Forum on Biotechnology and Economic Progress. University Science High School, Central Luzon State University, Muñoz , Nueva Ecija. 20 September 2004.
59. **Invited Resource Speaker, “Production of High Genetic Water Buffaloes Through the Recent Reproductive Biotechnique”.** Monthly Seminar Series on Technological Breakthroughs. Research, Extension and Training, Central Luzon State University, Muñoz , Nueva Ecija. RET Amphitheatre. 22 September 2004.
60. **Paper Presenter.** 41st Scientific Seminar and Annual Convention of the Philippine Society of Animal Science, Manila Philippines. 20-23 October 2004.
61. **Paper Presenter.** National Symposium on Agriculture and Resources Research and

- Development (NSARRD), PCARRD, Los Baños, Laguna. 10 November 2004.
62. **Resource Person.** Training on Technical Writing held at Philippine Carabao Center. 10-14 February 2003.
 63. **Invited Speaker.** Institute of Graduate Studies & Research Educational Development Training Institute's 8th National Research Forum, IGS Mini Theater, Central Luzon State University, Muñoz , Nueva Ecija. 7-9 May 2003.
 64. **Paper Presenter.** 13th Regional Symposium on Research and Development Highlights. RMTU, San Marcelino, Zambales. 16 August 2002.
 65. **Paper Presenter.** 39th Annual Convention of Philippine Society of Animal Science and 20th Visayas Chapter Scientific Seminar, Marriott Hotel, Cebu City, Philippines. 23-25 October 2002.
 66. **Paper Presenter.** National Symposium on Agriculture and Resources Research and Development (NSARRD), PCARRD, Los Baños, Laguna. 8 November 2002.
 67. **Poster Presenter.** 12th Regional Symposium on Research and Development Highlights, Bataan State College, Abucay, Bataan. 17 August 2001.
 68. **Paper Presenter.** 38th Annual Convention of Philippine Society of Animal Science, Heritage Hotel, Pasay City, Metro Manila. October 2001.
 69. **Judge.** Zonal Biology Quiz, Department of Biological Sciences, CAS, CLSU, Muñoz, Nueva Ecija. 12 February 1999.
 70. **Invited Resource Speaker.** Seminar series of the College of Veterinary Science and Medicine, Central Luzon State University, Muñoz, Nueva Ecija coordinated by Dr. Francisca A. Ching, Professor, from 1996 to 12 August 1999.
 71. **Paper Presenter.** 36th Annual Convention of Philippine Society of Animal Science, Heritage Hotel, Pasay City, Metro Manila. 21-22 October 1999.
 72. **Invited Resource Speaker.** Biology Teachers Association of the Philippines (BIOTA-Philippines) 33rd Biology Teachers Association of the Philippines (BIOTA) Annual National Convention and Seminar – Workshop with theme “Biology Education and Agrotechnology in the Third Millenium”, Central Luzon State University, Muñoz , Nueva Ecija. 2-4 April 1998.
 73. **Paper Presenter.** 35th PSAS Annual Convention, PICC, Manila. 15-16 October 1998.
 74. **Paper Presenter.** 34th PSAS Annual Convention, PICC, Manila. 23-24 October 1997.
 75. **Invited Panelist.** Media Conference during the 25th Anniversary of the Philippine Council for Agriculture, Forestry and Natural Resources Research and Development held at Los Banos, Laguna. 11 November 1997.

CONFERENCES AS ATTENDEE

1. *2009 R&D In House Review and Workshop*. Philippine Carabao Center, Munoz, Nueva Ecija. 27-29 May 2009.
2. *Forum on Magna Carta for Scientists, Engineers, Researchers and other Science and Technology Personnel in Government*. Philippine Carabao Center, Munoz, Nueva Ecija. 26 March 2008.
3. *44th Scientific Seminar and Annual Convention, Philippine Society of Animal Science*. Manila. 18-19 October 2007.
4. *27TH Annual Scientific Meeting, National Academy of Science and Technology*. Manila, Philippines. 13-14 July 2005.

SPECIALIZED TRAININGS

Confocal Live Cell Imaging Made Simple: A FluoView FV10i Launch”, Omnibus Bio-Medical Systems, Inc. Multi Dimensional Imaging Center, National Institute of Physics, University of the Philippines, Dilima, Quezon City, 25 May 2012.

Internal Audit for Integrated Management System, NevilleClarke International. Philippine Carabao Center, Science City of Muñoz, Nueva Ecija. 6-8 June 2012.

Appreciation Course on Occupational Safety and Health, Department of Labor and Employment-Occupational Safety and Health Center. Philippine Carabao Center, Science City of Muñoz, Nueva Ecija. 16 March 2011.

Training Course on Scanning Electron Microscopy, JEOL, Japan. Philippine Carabao Center, Science City of Muñoz, Nueva Ecija, 23-27 May 2011. Mr. Takashi Hattori, JOEL, Japan (Trainor).

Training on Intracytoplasmic Sperm Injection. Philippine Carabao Center, Science City of Muñoz, Nueva Ecija. 14-26 March 2010. Dr. Michiko Nagai, Institute of Agrobiological Sciences, Tsukuba, Japan (Trainor).

The 7 Habits for Managers, FranklinCovey. Philippine Carabao Center, 25 May 2010.

Calibration of Volumetric Wares. Department of Science and Technology – Industrial Technology Development Institute. Philippine Carabao Center, Science City of Muñoz, Nueva Ecija. 2-3 August 2010.

Calibration of Mass, Department of Science and Technology – Industrial Technology Development Institute. Philippine Carabao Center, Science City of Muñoz, Nueva Ecija 9-10 August 2010.

Liquid-in-Glass Thermometer Calibration and Performance Testing of Temperature Controlled Enclosures, Department of Science and Technology – Industrial Technology Development Institute. Philippine Carabao Center, Science City of Muñoz, Nueva Ecija. 16-17 August 2010.

Training cum Writeshop on Technology Valuation and Technology Transfer Modes. PCARRD, Los Banos, Laguna, 16 December 2009.

Calibration of Volumetric Wares, Industrial Technology Development Institute, Department of

Science and Technology. Philippine Carabao Center, Science City of Muñoz, Nueva Ecija. 22-24 July 2008.

Internal Audit Training Course. Reference: Based on the Requirements of the ISO 19011:2005. ACTII Internationale Corporation. Madamba Hall, Philippine Carabao Center, 21-22 November 2007.

Skills Enhancement Training on Intellectual Property Rights. Philippine Rice Research Institute, Muñoz, Nueva Ecija, 23-24 February 2005.

International Training Course on Molecular Biology & Biotechnology Techniques. Indian Veterinary Research Institute, Izatnagar, India on 1 February to 1 March 2004.

Training Course on Interpretation of the ISO 9001:2000 Standard, Joseph Server & Associates, Inc., Philippine Carabao Center on 8-9 March 2004.

Training Course on ISO 9001:2000 Documentation, Joseph Server & Associates, Inc., Philippine Carabao Center, 10 March 2004.

Training Course on Quality Auditing, Joseph Server & Associates, Inc., Philippine Carabao Center, 11 March 2004.

Mass and Temperature and Calibration Workshop Philippine Carabao Center, SC of Muñoz, Nueva Ecija, 23-24 January 2003.

Preparation and Analysis of Chromosomes in Water Buffaloes. Philippine Carabao Center, SC of Muñoz, Nueva Ecija, 22 September to 3 October 2003. Trainer and Lecturer: Dr. Midori Yoshizawa, Professor, Utsunomiya University, Japan.

Calibration of Volumetric Wares & Measurement of Uncertainty. PCC, Muñoz, Nueva Ecija. 8 November 2003.

Training on Bovine Reproduction and Breeding Technology. Miyazaki Prefecture Livestock Experiment Station, Hirowara 5066, Takaharu, Miyazaki, Japan. 8-11 April 1996

Short Course on Commercial Production of Cattle Embryo. Animal Biotechnology Center, Livestock Improvement Association Japan, Inc. 3-21-10 Higashi-Shinagawa, Shinagawa-ku, Tokyo, Japan. 15-19 April 1996. Trainer and Lecturer: Dr. Seizo Hamano and Dr. Kuwayama.

Electron Microscopy. Miyazaki University, Miyazaki, Japan. 1 August to 30 September 1995. Dr. Hashimoto, Hokkaido University. 2007.

In vitro Maturation, Fertilization and Cryopreservation of Bovine Oocytes and Embryos. Faculty of Agriculture, Miyazaki University, Miyazaki, Japan. April 1993 to April 1994. Trainer and Lecturer: Dr. Yasuhiro Tsuzuki.

Training on Technical Report Writing. Central Luzon State University, Muñoz, Nueva Ecija on 12-14 November 1991.

Refresher Course on Artificial Insemination and Pregnancy Diagnosis on Water Buffaloes. Philippine Carabao Research and Development Center, Carranglan, Nueva Ecija, 23 March to 4 April 1987.

SEMINARS ATTENDED

Philippine-American Educational Foundation-CFO Pre-departure Orientation Seminar. 10th Flr., Ayala Life-FGU Center, 6811 Ayala Avenue, Makati City. 22-23 May 2012.

Symposium on Commercialization of Livestock and Agricultural Biotechnology Products (TLC-UP Diliman/DA-BIOTECH/UPLB-Biotechnology/DA-PCC). Imperial Palace Suites, Quezon City. 14 Mar 2011.

Utilization of Native Animals in Building Rural Enterprises in Warm Climate Zones (FFTC-PCARRD-PCC). Philippine Carabao Center, Science City of Muñoz, Nueva Ecija. 19-23 July 2010.

Application of Molecular Marker for Identifying and Quantifying Microbial Populations and Functions in Environmental Engineering and Rumen Studies (DA-PCC). PCC, Muñoz, Nueva Ecija, 28 July 2010.

Carabao Development Program: Major Final Output and 2009 Priorities (DA-PCC). Philippine Carabao Center, Science City of Muñoz, Nueva Ecija. 25 March 2009.

International Seminar on Advances in Biotechnology Applicable to Animal Research and Industry (LDC/PCARRD/DA-BIOTECH/DA-BAR/DA-PCC). Imperial Palace Suites, Quezon City, 9 November 2009.

Advocacy Forum on Growth Potentials, Products and R&D Directions of Animal Biotechnology at the Tropics (PCARRD-DOST/DA-PCC), Bayview Park Hotel, Manila, 9 December 2009.

Forum on Magna Carta for Scientists, Engineers, and other Science and Technology Personnel in Government (Co-organizer, DA-PCC). Philippine Carabao Center, Science City of Muñoz, Nueva Ecija. 26 March 2008.

Use of Molecular Markers in Genetic Resource Conservation (DA-PCC). Philippine Carabao Center, Muñoz, Nueva Ecija, 22 August 2007.

New Trends in Biotechnology for Philippine Livestock Improvement (DA-PCC). Philippine Carabao Center, Science City of Muñoz, Nueva Ecija. 19 September 2007.

DOST-JSPS-PRF S&T Workshop: Sharing of knowledge and resources through collaborative research and development initiatives (Speaker). SEAFDEC, Iloilo City. 19 December 2007.

Agri Agbiotech Forum on Fish Meal Substitutes (DA-PCC). PCC, Muñoz, Nueva Ecija. 03 April 2006.

Forum on Intellectual Property Related Business Development Services. Astoria Plaza, Pasig City. 22 February 2005. Sponsors: Technology Management Center-University of the Philippines, Technology Management Foundation, Inc., and Technology Application and Promotion Institute-Department of Science and Technology.

Skills Enhancement Training on Intellectual Property Rights. PhilRice, Maligaya, Science City of Muñoz, Nueva Ecija. 23-24 February 2005. Sponsors: PhilRice Intellectual Property Management Office and Department of Agriculture Biotech Program Implementation Unit.

Technical Workshop on the Establishment of Agricultural Biotechnology Center. PhilRice, Science City of Muñoz, Nueva Ecija. 5-7 September 2005.

Rainbow Life Adventure "Personal and Work Effectiveness Program". Villa Navarro Beach

Resort, Brgy Santiago Norte, Caba. La Union. 1-2 April 2004.

Training on PCC Organizational Value and Development. City of Springs, Los Baños, Laguna. 12-14 July 2001.

Biotechnology Education Seminar. ITCAF Conference Room, Department of Agriculture. 9 August 2000

Leadership and Team Building Seminar. PHILRICE, Maligaya, Muñoz, Nueva Ecija. 11-12 September 2000.

Training Program on Office 5S. PHILRICE, Maligaya, Muñoz, Nueva Ecija. 22 September 1999.

Seminar-Workshop on Maximum Utilization of Information Technology (IT) in Libraries and Information Centers. ALAP. University of the Philippines at Los Baños Main Library, Los Baños, Laguna. 3-5 June 1997

Short Course on Artificial Insemination and Pregnancy Diagnosis. Philippine Carabao Research and Development Center, CLSU Ranch, Carranglan, Nueva Ecija. 23 March to 5 April 1987.

Short Course in Wildlife Techniques. Wildlife Biology Laboratory, NIBS-CAS, University of the Philippines at Los Baños, Laguna. 24 April to 3 May 1985.

Short Course in Bird Banding. Wildlife Biology Laboratory, NIBS-CAS, University of the Philippines at Los Baños, Laguna. 3-7 May 1985.

Workshop on Audio-Visual Equipment. Audio-Visual Center, CLSU, Muñoz, Nueva Ecija. 11 October 1985.

TRAINING & SEMINAR PROGRAMS SERVED AS ORGANIZER/COORDINATOR/ RESOURCE SPEAKER/FACILITATOR/SUPPORT STAFF

<u>SPONSOR</u>	<u>TRAINING COURSE</u>	<u>DATE & VENUE</u>
Instituto Nacional Autonomo de Investigaciones Agropecuarias (INIAP), Ecuador	<i>Tecnicas biotecnologicas para la reproduction y micromanipulacion in vitro de embriones de Ganado aplicable a varias especies de mamiferos</i>	Estacion Experimental Litoral Sur, Instituto Nacional Autonomo de Investigaciones Agropecuarias (INIAP), Virgen de Fatima, Yamaguachi, Guayas, Ecuador. April 22-25, 2013
Uni_Phil Dansen. Inc, JEOL, Japan, and Philippine Carabao Center	<i>Training Course on Scanning Electron Microscopy</i>	Philippine Carabao Center, Science City of Muñoz, Nueva Ecija, May 23 to 27, 2011.
JICA, FAO, DA-PCC	<i>Pre-Congress Training on the Use of Reproductive Biotechniques in Water Buffaloes</i>	October 4-19, 2004 at Philippine Carabao Center, National Headquarters and Gene Pool, Science City of Muñoz, Nueva Ecija.
FFTC-ASPAC	<i>Training on the Use of Reproductive Biotechniques</i>	June 5-16, 2000 at Philippine Carabao Center National HQ

	<i>in Water Buffaloes</i>	and GP, Science City of Muñoz, Nueva Ecija and at Dairy Training and Research Institute, Philippines.
PCC-DA-Utsunomiya University	<i>Training on Preparation and Analysis of Chromosomes in Water Buffaloes,</i>	September 22-Oct 4, 2003 at Philippine Carabao Center National Headquarters (HQ) and Gene Pool (GP), Muñoz, Nueva Ecija.
PCC-DA	<i>Reproductive Biotechnology Seminar Series</i>	June-December, 2004, Philippine Carabao Center, National Headquarters and Gene Pool, Science City of Muñoz, Nueva Ecija 3120

MEMBERSHIPS

<i>Life Member</i>	Fulbright-Philippines Agriculture Alumni Association. May 11, 2013 – present
<i>Life Member</i>	Japanese Society for the Promotion of Science Alumni Association in the Philippines, 2012 – present
<i>Member and Bus. Mgr.</i>	Philippine Association of Career Scientist (PACS), May 16, 2013-present
<i>Member</i>	International Society for Southeast Asian Agricultural Sciences, Inc. (ISSAAS), April 30, 2012 – present
<i>Regular Member</i>	National Research Council of the Philippines, March 13, 2013 to Present
<i>Associate Member</i>	National Research Council of the Philippines, 25 Sept 2009 to March 13, 2013
<i>Treasurer</i>	Philippine Society of Japanese Society for the Promotion of Science RONPAKU Fellows, 2004 – 2012
<i>President</i>	CLSU Kappa Epsilon Alumni Association, Inc, Jul 2008 – present
<i>Founding Member</i>	Philippine Society of Developmental Biology in the Philippines, Inc. Aug 2009 to present
<i>Life Member</i>	Philippine Society of Animal Science, 1986 to present
<i>Life Member</i>	Philippine Association of Career Scientist. May 16, 2013 to present
<i>Member</i>	Asia Reproductive Biotechnology Society, 2010 - present
<i>Member</i>	Filipino Association of Scholars in Tsukuba “FAST”, 2004 – present

Member

Hokkaido University Association of Filipino Scholars, 2004 - present

Member

Japanese Society for the Promotion of Science Alumni Association of the Philippines, 2012 - present