



D. PRASADI N. DE SILVA

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EVENTS/ UPDATES

AREAS OF EXPERTISE

- Veterinary Medicine
- Aquatic animal health management
- Immunology
- Micro and Molecular biology

RESEARCH INTEREST

- Immunotherapeutics
- Transcriptomics
- Aquatic animal diseases
- Zeebrafish / Aquatic animal models for biomedical research

MEMBERSHIPS

Committees

- Sri Lanka Veterinary Association
- Sri Lanka Association for Laboratory Animal Science

Professional Bodies

- Veterinary Council of Sri Lanka

PUBLICATIONS

Full papers

01. **De Silva, D.P.N.**, Perera, J.L.C.S., Liyanage, N.P.P. And Jayamanne, S.C. (2015) Zebrafish embryo as an alternative for laboratory animals in toxicological assays in Sri Lanka: A SWOT analysis (strengths, weaknesses, opportunities and threats) 3rd International Conference on Asian Studies, Proceedings. pp 39 (ISBN: 978-1-5108-2035-7)

02. De Silva, D.P.N., Fernando, H.S.D., Ranatunga, R.R.M.K.P. and De Silva, B.G.D.N.K (2017). First record of plerocercoid larvae belong to the order Trypanorhyncha (Diesing 1863) isolated from swordfish (*Xiphias gladius*, Linnaeus 1758) captured off Sri Lanka. Sri Lanka Journal of Aquatic Sciences. 22(1), pp.67–70. DOI: <http://doi.org/10.4038/sljas.v22i1.7518>
03. De Silva, D.P.N., Fernando, H.S.D., Ranatunga, R.R.M.K.P. and De Silva, B.G.D.N.K (2017). First record of plerocercoid larvae belong to the order Trypanorhyncha (Diesing 1863) isolated from swordfish (*Xiphias gladius*, Linnaeus 1758) captured off Sri Lanka. Sri Lanka Journal of Aquatic Sciences. 22(1), pp.67–70. DOI: <http://doi.org/10.4038/sljas.v22i1.7518>

Abstracts (recent)

1. A.W. Kalupahana and **D.P.N. de Silva**. (2010) Application of Polymerase Chain Reaction (PCR) Technique to Detect Koi Herpes Virus (KHV) Infection in Carps. *Proceedings. Peradeniya University Research Sessions (PURSE)*, Volume 14: pp: 68-69
2. **D.P.N. de Silva** and M.N.M. Fowzie. (2010) Death of a Giant Gourami (*Osphronemus goramy*) due to ruptured gut associated with geophagia. *Journal of Sri Lanka Veterinary Association*, 62nd Annual Scientific Sessions, pp: 33
3. J.L.C.S. Perera, **D.P.N. De Silva** and L.J.P.A.P. Jayasooriya. (2011) Development of a protein rich feed ingredient for feeding of guppy (*Poecilia reticulata*) using ruminal content of cattle. *Proceedings. Peradeniya University Research Sessions (PURSE)*, Volume15-Part1: 326-328
4. **D.P.N. de Silva**, J.L.C.S. Perera and M.M.G. Madhusingha. (2012) Analysis of the infectious agents causing skin rashes in dogs of an urban area in Sri Lanka. *Proceedings: Asia – Pacific Veterinary Conference*, Thailand. pp: 07
5. K.Y. Gunasinghe, M. Epasinghe, N.P.P. Liyanage and **D.P.N. De Silva**. (2012) Effects of pH on Egg Hatchability, Survival Rate and Growth Rate of Yolk Sac Larvae of Goldfish (*Carassius auratus*). *Research Symposium. Uva Wellassa University*. Proceedings 3
6. **D.P.N. De Silva** and J.L.C.S. Perera. (2013) Methylene blue staining for identification of Lymphocystis disease virus (LCDV) infected tissue of Gold fish (*Carassius auratus*). *Journal of Sri Lanka Veterinary Association*, 65th Annual Scientific Sessions, pp: 37

7. Arulananthan, A., **De Silva, D.P.N.**, Jayamanne, S.C., Senarathne, S.G. and Dalpadadu, S.L. (2013) Antimicrobial activity of seagrass (*Cymodocea serrulata*) from Southwest coast of Sri Lanka. Research symposium of UWU. pp: 4-8
8. Bokalawella, S.H.K., **De Silva, D.P.N.**, Jayamanne, S.C., Gunasekara, A.J.M. and Piyadasa, H.T.N.I. (2013) Antibacterial efficacy of mangrove *Rhizophora mucronata* extracts on aquatic bacterial pathogens. Research symposium of UWU
9. Arulananthan, A., **De Silva, D.P.N.**, Jayamanne, S.C., Senarathne, S.G. and Dalpadadu, S.L. (2013) Antimicrobial activity of extracts of selected marine plants from the Southwest coast of Sri Lanka. Scientific sessions – NARA, pp 20
10. Bokalawella, S.H.K., **De Silva, D.P.N.**, Jayamanne, S.C., Gunasekara, A.J.M. and Piyadasa, H.T.N.I. (2014) Evaluation of antibacterial efficacy of mangrove leaf extracts on fish bacterial pathogens. International Research Sessions (RISTCON).
11. **De Silva, D.P.N.**, Liyanage, N.P.P. (2014) Identification of the most effective dosage of Clove oil solution as an alternative for synthetic anaesthetics on Zebrafish (*Danio rerio*). International Conference on Aquatic Sciences and Fisheries - ICASF. Proceedings of the ICASF 2014 : Osaka, Japan
12. Jagoda, S.S.S.De S., Honein, K., **De Silva, D.P.N.**, Appadurai Arulnathan, Shigeharu Kinoshita, Hideki Ushio, Shuichi Asakawa. (2014) Genetic characterisation of multidrug resistant *Citrobacter* spp. Isolated from septicaemic freshwater ornamental fish`. (submitted paper to be publish in November 2014 at 9th Symposium on Diseases in Asian Aquaculture, Vietnam)
13. Fasmina, M.F.A., Jayamanne, S.C., Liyanage, N.P.P. And **De Silva, D.P.N.** (2015) Toxicity effects of trace metals on Zebrafish (*Danio rerio*) embryo. Proceedings. Annual Scientific Symposium, Uva Wellassa University
14. **De Silva, D.P.N.**, Perera, J.L.C.S., Liyanage, N.P.P. And Jayamanne, S.C. (2015) Zebrafish embryo as an alternative for laboratory animals in toxicological assays in Sri Lanka: A SWOT analysis (strengths, weaknesses, opportunities and threats) 3rd International Conference on Asian Studies, International University of Japan, Niigata, Japan. Proceedings pp 39-44 (ISBN 978-955-27-0)
15. **De Silva, D.P.N.**, Fernando, H.S.D., Ranatunga, R.R.M.K.P. And De Silva, (2015) B.G.D.N.K. First record of cestode parasite larvae belong to order: Trypanorhyncha isolated from sword fish captured in Sri

Lanka. Proceedings. 2nd International conference on Fisheries and Aquaculture, Colombo, Sri Lanka. pp: 31

16. **De Silva, D.P.N.**, Tan, E., Mizumo, N., Kinoshita, S., Mitsuyama, S. And Asakawa, S. (2015) Characterization of the immunoglobulin novel antigen receptor gene of brownbanded bamboo shark (*Chiloscyllium punctatum*). Autumn meeting of the Japanese Society of Fisheries Science - 2015, Sendai, Japan. pp. 48
17. **De Silva, D.P.N.**, Tan, E., Mizumo, N., Kinoshita, S., Mitsuyama, S. And Asakawa, S. (2015) Preliminary identification of immunoglobulin isotypes in brownbanded bamboo shark (*Chiloscyllium punctatum*) by heavy chain constant domain analysis. 2nd - 3rd December 2015, Kobe, Japan.
18. D.C. Walikalage, N.P.P. Liyanage, S.C. Jayamanne and **D.P.N. De Silva** (2016) A STUDY ON TOXIC EFFECT OF COMMON ORGANOPHOSPHORUS PESTICIDES USED IN SRI LANKA ON ZEBRAFISH (*Danio rerio*) EMBRYO. 3rd Annual Scientific Sessions, Sri Lanka Association for Laboratory Animal Science. January, 2016, Colombo, Sri Lanka.
19. **De Silva, D.P.N.**, Senevirathna, J.D.M., Fernando, H.S.D., Ranatunga, R.R.M.K.P. and De Silva, B.G.D.N.K (2016) Molecular identification revealed parasite *Molicola* species inhabiting Swordfish (*Xiphias gladius*) captured from Sri Lanka. 7th World Fisheries Congress, Busan, Korea. 23-27 May, 2016, pp 85
20. **De Silva, D.P.N.**, Tan, E., Mizumo, N., Kinoshita, S., Mitsuyama, S. And Asakawa, S. (2016) Determination of variable region of novel antigen receptor (vNAR) from brownbanded bamboo shark (*Chiloscyllium punctatum*). 7th World Fisheries Congress, Busan, Korea. 23-27 May, 2016, pp 199
21. **De Silva, D.P.N.**, Tan, E., Mizumo, N., Kinoshita, S., Mitsuyama, S. And Asakawa, S. (2016) Preliminary investigation of brownbanded bamboo shark (*Chiloscyllium punctatum*) immunoglobulin light chain isotypes. 7th World Fisheries Congress, Busan, Korea. 23-27 May, 2016, pp 857
22. Wijethunga, K.A.N.L., Jayamanne, S.C., Liyanage, N.P.P., **De Silva, D.P.N.**, Fasmina, M.F.A. (2017) Acute toxic effects of diazinon and etofenprox on zebrafish (*Danio rerio*) embryos. *Proceedings of International Research Symposium (IRSUWU) – 2017*, 19-20 January. Uva Wellassa University, Sri Lanka.
23. Liyanage, D.N., Awanthika, R., **De Silva, D.P.N.**, Wanniarachchi, D.D.C. (2017) Metal-glyphosate complexes – synthesis, characterization and toxicity evaluation by zebrafish embryo toxicity test.

Proceedings of the 4th Annual Scientific Session of Sri Lanka Association for Laboratory Animals (SLALAS) Sri Lanka, 23-24 January. Wayamba University, Sri Lanka.

24. **De Silva, D.P.N.**, Hosoya, S., Mizumo, N., Kinoshita, S., and Asakawa, S. (2017) Transcriptome analyses on *in vivo* affinity maturation of immunoglobulin novel antigen receptor (IgNAR) from Brownbanded bamboo shark (*Chiloscyllium punctatum*) as an animal model for immunotherapeutics. Book of abstracts, 10th European zebrafish meeting, 3-7 July 2017. Budapest, Hungary. pp 458-459 .
25. **De Silva, D.P.N.**, Hosoya, S., Mizumo, N., Kinoshita, S., Totsuka, M. and Asakawa, S. (2017) Determination of immunoglobulin novel antigen receptor (IgNAR) *in vivo* affinity maturation in brownbanded bamboo shark (*Chiloscyllium punctatum*). Proceedings of JSFS International Symposium, 22-24 September 2017. Shinagawa, Japan.
26. Hiroshini, W.C., Liyanage, N.P.P., Jayamanne, S.C. and **De Silva, D.P.N.** (2018) A study on toxicity effect of mancozeb fungicide residual on zebrafish (*Danio rerio*) embryo. Proceeding of the 2nd International Symposium, 1-2-February 2018. Uva Wellassa University, Sri Lanka. 233
27. **De Silva D.P.N.**, Mizuno N., Hosoya S., Kondo H., Yoshitake K., Kinoshita S. and Asakawa S. (2018) Nanobodies of shark origin: novel approach for cancer immunotherapy. Annual Research Conference, Sri Lanka Students Association in Japan. The Embassy of Sri Lanka, Tokyo, Japan.
28. Perera J.L.C.S., **De Silva D.P.N.**, Pathmalal M.M., Miura K., Yamada A. and Hirayama K. (2018) Public health concerns over campylobacteriosis associated with broiler industry in Sri Lanka. Annual Research Conference, Sri Lanka Students Association in Japan. The Embassy of Sri Lanka, Tokyo, Japan.
29. Senevirathna J.D.M., **De Silva D.P.N.**, Thushari G.G.N., Liyanage N.P.P., Jayamanne S.C. and Shuichi Asakawa (2018) Genomics and biotechnology applications for the development of aquaculture industry in Sri Lanka. Annual Research Conference, Sri Lanka Students Association in Japan. The Embassy of Sri Lanka, Tokyo, Japan.

RESEARCH PROJECTS

Ongoing

Development of immunotherapeutic agent based on brownbanded bamboo shark immunoglobulin novel antigen receptor variable region

Completed

Molecular analysis of Koi Herpes virus

Toxicity analysis of pesticides and weedicides using zebrafish embryo toxicity testing

ADMINISTRATIVE RESPONSIBILITIES

Duration		Capacity	Institute
From	To		
2012	2013	Academic Sub warden	Uva Wellassa University
2009	2010	Academic Sub warden	Peradeniya University

AWARDS AND SCHOLARSHIPS

- Awarded Astron Scholarship for the highest performance in 1st, 2nd and 3rd BVSc examinations (awarded by the Astron Limited and University of Peradeniya)
- Awarded Dr Dewansa Senevirathna Gold medal for the academic excellence in Veterinary Public Health (awarded by the Faculty of Veterinary Medicine and Animal Science)
- Gold medal for the fluency in Chinese language (from the Provincial Ministry of Education of Western Province in collaboration with Association for Sri Lanka – China Social and Cultural Co-operation)
- Uva Wellassa University academic research grants (UWU/R/G-2013/11), Sri Lanka
- Bursary award for the contribution on animal welfare by Laboratory Animals Ltd.,UK
- Awarded Japanese Government (Monbukagakusho-MEXT) Scholarship (embassy recommendation) from 1st April 2014
- Awarded scholarship to attend 7th World Fisheries Congress (WFC) - 2016, BEXCO, Busan, Korea by WFC organizing committee (May, 2016)
- Awarded Best Presenter at the Annual Research Conference, 2018, organized by the Sri Lanka Students Association in Japan, at the Sri Lankan Embassy, Tokyo, Japan (December, 2018)

CAREER HISTORY

Duration		Capacity	Institute
From	To		
2009	2010	Temporary Lecturer	Faculty of Animal Science and Export Agriculture
2010	2011	Veterinary Internee	Department of Animal Production and Health
2012	present	Lecturer	Uva Wellassa University

TEACHING

Uva Wellassa University

- Since 2012, At the Department of Animal Science, Faculty of Animal Science and Export Agriculture

University of Peradeniya

- 2009 – 2010, Department of Veterinary Pathobiology and Centre of Aquatic Animal Disease Diagnosis and Research, Faculty of Veterinary Medicine and Animal Science

SUPERVISION

Undergraduate research supervised (Selected)

Determination of toxicity effects of pesticides and weedicides on aquatic environment using zebrafish embryo toxicity test