

## Publications 2003

- Bandara, W.M.P., Kotelawala, H. Fernando; G.K.C.N., Wickramasinghe, R., (2003) Analysis of poultry diseases presented to Poultry Services Unit, Veterinary Research Institute, 55<sup>th</sup> Annual Convention and Scientific Sessions of the Sri Lanka Veterinary Association , May 30-31<sup>st</sup> , 2003 .
- Chandrasiri, A.D.N. (2003) Biotechnology in Livestock. Proceedings of the Seminar on Awareness on Biotechnology, Organized jointly by the Council for Agricultural Research Policy and NARA, Sept.25<sup>th</sup> 2003.
- Chandrasiri, A.D.N., Wijewardana,B.D.R., Premalal,G.G.C., Silva,S.S.P., and Dharmawardene, J. (2003) Cess on Imported Milk Products: How it can be Utilized to Make the Dairy Industry Sustainable. 55<sup>th</sup> Annual Convention and Scientific Sessions of the Sri Lanka Veterinary Association, May 30-31,2003
- Chandrasiri, A.D.N., Ratnayaka,T., Hemachandra, H.T.A.S., and Liyanagamage,A., (2003) constraints in Dairy Sector and its Extension Service, 55<sup>th</sup> Annual Convention and Scientific Sessions of the Sri Lanka Veterinary Association, May 30-31,2003
- Ekanayaka, S., Jayasekara,M.U., Horadagoda,N.U.,Abeynaike,P., Gunaratne,S.P.,Silva,S.S.P., and Priyankarage,N., (2003). The effect of increased sodium in feed on Ascites and right ventricular failure in broiler chicken. *Proceedings of Peradeniya university research sessions* **8**, 209,2003
- Ekanayake, S., Silva, S.S.P., Priyankarage, N., Herath, U.T.K., Jayasekara, M.U., Horadagoda, N.U., Abenayake, P.,and Gunaratne, S.P., (2004) Effect of sodium in feed on hematological parameters and plasma sodium level in six week old chickens. *British Poultry Science* (accepted for publication)
- Ekanayake, S., Silva, S.S.P., Priyankarage, N., Jayasekara, M.U., Horadagoda, N.U., Abenayake, P., Gunaratne, S.P., (2004) The effect of increased sodium in feed on pulmonary hypertension induced ascites and right ventricular failure in broiler chickens. *British Poultry Science* (accepted for publication)
- Gamage D.V.S.de S. and Nirosan,T.D., (2003) An open nucleus breeding program for dairy cattle improvement in Sri Lanka, 55<sup>th</sup> Annual Convention and Scientific Sessions of the Sri Lanka Veterinary Association, May 30-31,2003
- Gunawardena, G.A., Fernando, G.K.C.N., Vipulasiri, A.A., Gunatilake, S.K., and Vijemuni, M.I., (2003) Pullorum disease and fowl Typhoid Control Programme in Poultry Breeder Farms in Sri Lanka. 55<sup>th</sup> Annual Convention and Scientific sessions of the Sri Lanka Veterinary Association 30-31<sup>st</sup> May, 2003
- Jayaweera M.D.N., Samarasinghe K., Chandrasoma H.M.A., Wickramarathne S.H.G., Priyankarage N. (2003) A preliminary study on the present status of small-scale self-mixing poultry feed manufacturers in the North Western Province of Sri Lanka. In: *Proceedings of 55<sup>th</sup> Annual Convention of Sri Lanka Veterinary Association, 30-31<sup>st</sup> May, Colombo.2003.*

- Kotalawala, H., Fernando, G.K.C.N., Wanasinghe, W.M.T., Rajapaksha, G.R., Rupasinghe, V., Wickramasinghe, R., Bandara, D.A.W.W.D.A., and Gunatilake, S.K. (2003) Emergence of laryngo-tracheitis in poultry in the Western Province of Sri Lanka. 55<sup>th</sup> Annual Conception and Scientific Sessions of the Sri Lanka Veterinary Association 30-31<sup>st</sup> May 2003.
- Leukebandara, I.K., Dharmawardene, J., Nawaratne, M.B., Somaratne, M., Wickramasinghe, R., and Ekanayaka, E.M.C. (2003) Veterinary herbal therapies in ancient Sri Lanka. (Sri Lanka Veterinary Journal . accepted for publication)
- Nawaratna, K.M.G.S.S.K, Rajapaksha, W.R.A.K.J.S., and Weilgama, D.J., (2003) Use of a PCR based technique for diagnosis of *cutaneous Leishmaniasis* in Sri Lanka. Proceedings of the Peradeniya University Research Sessions, Sri Lanka. Vol. 8 October 2003. pp 120 (ISBN 955-589-060-9)
- Niroshan, T.D. , Rajapaksha, W.R.A.K.J.S., Chandrasiri, A.D.N., Wijesekara, T.P., and Tilakaratne, I.D.S.I.P., (2003) Use of PCR in identification of dog and buffalo meat. 55<sup>th</sup> Annual Convention and Scientific Sessions of the Sri Lanka Veterinary Association, May 30-31, 2003
- Palliyaguru, M.W.C.D., Priyankarage, N., Silva, S.S.P., Gunaratne, S.P., Weerasinghe, W.M.P.B., Fernando, P.S., Attapatu, A.H.M., (2004) Effect of different probiotics on nutrient utilization and intestinal microflora of broiler chickens. *British Poultry Science* (accepted for publication)
- Palliyaguru, M.W.C.D., Silva, S.S.P., Priyankarage, N., Weerasinghe, W.M.P.B., Sirisena, D.M.M.C., (2004) Efficacy of two commercial xylanases (Grindazym GP 5000 and Avizyme 1302) and their effect on economics when supplemented broiler diets based on rice by-products. *British Poultry Science* (accepted for publication)
- Premalal, G.G.C., Premaratne, S., Chamara, M.W.S. Thavarajah, T., and Bandara, C., (2003) On-farm evaluation of hybrid Napier var. CO-3 fodder grass under smallholdings in dry and intermediate parts of Kurunegala district. Sri Lanka Association for the Advancement of Science – Dec. 2003
- Premaratne, S., Premalal, G.G.C., and Jayawardena, V.P., (2003) Sustainable management of grassland resources for ruminant livestock production in Sri Lanka. *Tropical Agricultural Research and Extension* 6, 2003
- Priyankarage, N., Silva, S.S.P., Gunaratne, S.P., Kothalawala, H., Palliyaguru, M.W.C.D., and Gunawardana, G.A., (2003). Efficacy of a probiotic and its effect on performance, carcass characteristics, intestinal microflora and *Salmonella* incidence in broilers. *British Poultry Science* **44**, S26
- Priyankarage, N. Silva, S.S.P. Gunaratne, S.P., Palliyaguru, M.W.C.D., Weerasinghe, W.M.P.B., and Fernando, P.S., (2003). Comparison of the efficacies of different probiotics for broiler chickens. *British Poultry Science* **44**, S19
- Priyankarage, N., Silva, S.S.P., Gunawardane, G.A., Palliyaguru, M.W.C.D., Weerasinghe, W.M.P.B., Fernando, G.K.C.N., Chandima, R.A.T., (2004) Effect of different probiotics against a lethal dose of *Salmonella* in broiler chickens. *British Poultry Science* (accepted for publication).
- Rajapaksha, W.R.A.K.J.S., Thilakaratne, I.D.S.I.P., Chandrasiri, A.D.N. and Niroshan, T.D. (2003) Development of PCR assay for identification of buffalo meat. *Asian-Australasian Journal of Animal Science*. Vol. 16(7): 1046-1048

- Senasinghe N.D., Faizal A.C.M., Rajapaksha, W.R.A.K.J.S., Rajapakse R.P.V.J. and Widmer G. (2003) Prevalence of porcine *Cryptosporidium parvum* infection Sri Lanka. Proceedings of the Peradeniya University Research Session, Sri Lanka Vol. 8 October 2003. pp 208 (ISBN 955-589-060-9)
- Senasinghe N.D., Rajapaksha W.R.A.K.J.S., Faizal A.C.M., Rajapakse R.P.V.J., Widmer G., (2003) Prevalence of porcine *Cryptosporidium* infection in Sri Lanka – a preliminary study In: *Proceedings of the Annual Research Sessions, University of Peradeniya, Vol.8, 23<sup>rd</sup> October 2003*
- Silva L.P. and Rajapaksha W.R.A.K.J.S. (2003) Preliminary investigation on genetic characterization of native and endemic fowl types in Sri Lanka. FAO/IAEA international symposium on application of gene-based technologies for improving animal production & health in developing countries 6-10 October 2003, Vienna, Austria.
- Silva, S. S. P., Mangalika, U. L. P, and Priyankarage, N. (2003). Is broiler offal meal (Hypromel<sup>®</sup>) a potential feed ingredient in poultry diets? *Veterinary Research News*
- Silva, S.S.P., Palliyaguru, M.W.C.D., Priyankarage, N., Weerasinghe, W.M.P.B., Gunaratne, G.D.J.K., (2004) Effect of exogenous phytase on the performance of broilers fed on marginally low phosphorus diets containing high amounts of rice by-products. *British Poultry Science* (accepted for publication)
- Silva, S.S.P., D. Palliyaguru, M.W.C.D., Priyankarage, N., Weerasinghe, W.M.P.B. and Gunawardana, G.A., (2003) Effect of exogenous enzymes on performance, gut fluid viscosity and gut microbial counts of the broiler chicks fed on diets based on rice by-products *British Poultry Science* **44**, S42
- Wickramaratne, S.H.G., Chandrasene, R.M., Gamage, D.V.S De S. Chandrasiri, A.D.N., and Gunaratne, S.P., (2003) Effect of Scavenging Period on the Production Performance of Crossbred Chicken. 55<sup>th</sup> Annual Convention and Scientific Sessions of the Sri Lanka Veterinary Association, May 30-31, 2003

### **Other publications**

National Priorities Biotechnology Research in Agriculture, 2003-2008, Publisher: Sri Lanka Council for Agricultural Research Policy, Ministry of Agriculture and Livestock (2003). Dr. A.D.N. Chandrasiri is one of the committee members of the National Committee of Plant Breeding and Biotechnology (CARP)

### **AWARDS IN 2003**

#### **THE BEST POSTER PRESENTATION**

1. The paper entitled ‘Comparison of the different probiotics for broiler chickens’ by Priyankarage N., Silva S.S.P., Gunaratne S.P., Palliyaguru M.W.C.D., Weerasinghe W.M.P.B., Fernando P.S. presented at the 2003 spring meeting of the World’s Poultry Science Association United Kingdom branch, University of York, UK won the award for best poster presentation.

## **Research project proposals submitted for fundings:**

### **Animal Breeding:**

1. Development of a meat strain utilizing indigenous chicken ecotypes. DVS de S Gamage, TD Niroshan, SSP Silva, SHG Wickramaratne, RM Chandrasena, PAK Panawala. Source of Funds: CARP
2. Genetic and phenotypic characterization of indigenous cattle types of Sri Lanka. L.P. Silva, CMB Dematawewa, AND Chandrasiri, WRAKJS Rajapaksha. Source of Funds: CARP
3. Genetic characterization of indigenous goat and sheep species in Sri Lanka, A.D.N. Chandrasiri, W.R.A.K.J.S. Rajapaksha, T.D. Niroshan, R.V.P.J. Rajapaksha, P. Samaraweera, P.G.A. Pushpakumara and K. Perera. . Source of Funds: IAEA

### **Bacteriology:**

1. Characterization of avian salmonella Isolates in Sri Lanka by phenotypic and genotypic methods. G.A. Gunawardene, G.K.C.N. Fernando, H. Kothalawala, P. S. Fernando. Source of Funds: CARP
2. Production of a live vaccine for haemorrhagic septicaemia. using avirulent mutant strains of *Pasteurella multocida*. G.A. Gunawardene, John Hodgson, Roger Parton, Robert Davis, Mark Dagleish Collaborative project with Glassgow University, UK. Source of Funds: Welcome Trust, UK

### **Animal Nutrition:**

1. Use of herbal additives as an alternative for antibiotic growth promoters in poultry diets, with emphasis on control of salmonellosis and cholibacillosis. S.S.P. Silva, G.A. Gunawardana, N. Priyankarage, M.W.C.P. palliyaguru, W.M.P.B. Weerasinghe. Source of Funds: CARP
2. Improvement of quality of locally available cereal by-products, rice bran / polish, using recombinant exogenous enzymes. S.S.P. Silva, H.J. Gilbert, G.A. Gunewardana, W.R.A.K.J.S. Rajapaksha, N. Priyankarage, M.W.C.D. Palliyaguru, W.M.P.B. Weerasinghe. Source of Funds: Welcome Trust, UK.

## **Virology:**

1. Sero surveillance of emerging poultry disease. H. Kothalawala, G.A. Gunawardana, R. Wickramasinghe, G.K.C.N. Fernando. Source of funds: CARP
2. Studies on occurrences of important swine diseases in Sri Lanka with special reference to viral diseases. V. Rupasinghe, G.K.C.N. Fernando, M.B. Navaratne, and S. puvanendren - Applied for CARP on March 2003. Awaiting for Funds.

## **Farming Systems:**

1. Improvement of livestock farms by proper farm planing, management and introduction of low cost new technology. I.K. Leukebandara, Sunil Gamage, J. Dharmawardene, A.D.N. Chandrani, S.S.P. Silva, G.G.C. Premalal, M.B. Navaratne, Palika Fernando, M. Somaratne.
2. Promotion of treated rice straw to supplement night feeding crossbred cattle under the tethered grazing system. S.H.G. Wickramaratne, R.M. Chandrasena,  
Division : Farming systems, Economics & Marketing.  
Funding source: Dept. Animal production & Health.