



VETERINARY & ANIMAL SCIENCE RESEARCH FOUNDATION (VASREF)

Registration ID: 81509289/ D.S.R.O. (K), BBSR, India

VASREF AWARD

Ch. HARIKRISHNA



0221. Veterinary and Animal Science Research Foundation (VASREF) is pleased to confer the award of Fellow of Veterinary and Animal Science (FVASc) to Dr Cherala Harikrishna, Professor (LPM), Dept. of Livestock Farm Complex, College of Veterinary Science, PVNR Telangana Veterinary University, Rajendranagar, Hyderabad, India in the year 2021 in recognition of his momentous contribution to veterinary and animal science.

Antecedent & Origination: Dr Harikrishna was born to illustrious parents (*Shri Ch. Rajaram* – Father and *Shrimati Ch. Bhagyalaxmi* – Mother) on 02-May-1969 in Warangal, the erstwhile capital of Kakatiya Dynasty of Deccan region of South India between 12th and 14th centuries. Their capital was Orugallu, now known as Warangal. It is heralded with momentous monuments like the fort of Warangal, Thousand pillars Temple, Kulpakji Jain Mandir and monolithic Nandi effigy (The biggest in India). Telangana State is the habitat of Podathurpu (Draught) cattle breed and Deccani sheep breed.



Academic credentials: Dr Harikrishna was graduated (B. V. Sc. & A.H.) from the College of Veterinary Science, Andhra Pradesh Agricultural University (APAU), Rajendranagar, Hyderabad in the year 1993 scoring 7.97/10 GPA. He did his post-graduation (M.V.Sc) in Dairy Production from APAU in the year 1995 scoring 8.97/10 GPA. He did his Doctor of Philosophy (Ph.D) in Livestock Production Management from the College of Veterinary Science, Rajendranagar, Hyderabad of Sri Venkateswara Veterinary University (SVVU), Tirupati in the year 2010 with 9.12/10 G.P.A.

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Service Particulars: Dr Harikrishna's professional career comprised: (1) Veterinary Assistant Surgeon (V.A.S) in the Department of Animal Husbandry, Govt. of Andhra Pradesh from 25-08-1995 to 26-09-2001. (2) Scientist, Livestock Production Management (LPM) at District Agricultural Advisory and Transfer of Technology (DAATT) centre, ANGRAU, Nalgonda from 27-09-2001 to 06-11-2014. (3) Asstt. Professor in the Dept. of LPM, College of Veterinary Science (ANGRAU), Rajendra Nagar, Hyderabad from 08-11-2004 to 24-08-2007. (4) Scientist (LPM), LES, LRI in ANGRAU & SVVU, Rajendranagar, Hyderabad from 24-08-2007 to 30-10-2012. (5) Sr. Scientist & Head, NPBI, Anthergaon, Karim Nagar & Livestock Research Station (SVVU), Mamnoon, Warangal, from 30-10-2012 to 30-10-2015. (6) Principal Scientist & Head, Livestock Research Station (PVNRTVU), Mamnoon, Warangal, from 31-10-2015 to 28-05-2018. (7) Professor & Head, Dept. of Livestock Farm Complex, College of Veterinary Science (PVNRTVU), Mamnoon, Warangal, from 28-05-2018 to 07-09-2019. (8) Professor, LPM, Dept. of Livestock Farm Complex, College of Veterinary Science, (PVNRTVU), Rajendra Nagar, Hyderabad from 09-09-2019, till date.

Abbreviations: (1) APAU = Andhra Pradesh Agricultural University, (2) ANGRAU = Acharya N. G. Ranga Agricultural University, (3) PVNRTVU = Pamulaparti Venkata Narsimha Rao Telangana Veterinary University, (4) SVVU = Sri Venkateswara Veterinary University, (5) LES = Livestock Experimental Station, (6) LRI = Livestock Research Institute, (7) NPBI = Network Project on Buffalo Improvement.

Awards/ Honours/ Fellowships: (1) Dr. MS Patel award for best Research Publication, Indian Society of Animal Production and Management (ISAPM), 2013. (2) SVVU Meritorious Research Scientist Award, 2014. (3) National Kamdhenu Award (First Position), 2017. (4) Best Research Paper Presentation Award of Indian Society of Animal Production and Management (ISAPM), 2018. (5) National Fellow of Animal Production Management (FNAPM) award of Indian Society of Animal Production and Management (ISAPM), 2019.

Scientific leadership: (1) Life member and Central Executive Council member of Indian Society of Animal Production and Management. (2) Member of Indian Veterinary Association (3) Member of Telangana State Veterinary Council. (4) Member of Andhra Pradesh State Veterinary Association. (5) Member of Review Panel for Tropical Animal Health and Production Journal. (6) Reviewer - Member of Veterinary World Journal. (7) Member of Scientific Advisory Council for ICAR-CRIDA, KVK, Hayathnagar, Hyderabad.

Visits to foreign countries on scientific mission: (1) Visiting Professor for Training to FOFIFA, Antananarivo, Madagascar (2019) on near infrared reflective spectroscopy and chemometrics, organized by Project Coordinator, CIRAD, St. Pierre, France. (2) Participation in International Workshop on effect of climatic change on ruminants by eclipse in Reunion Island, France - 2017. (3) International conference on 'Indigenous innovative designs and implements for global environment and entrepreneurial needs utilizing utilitarian sources' by ISAPM at Hyderabad - 2016. (4) International Symposium on Dairy Value Chain organized by TANUVAS, Chennai, Luanar, Malawi and Michigan State University, USA - 2013. (5) Participation in 'Train the Trainer program' organized by National Meat and Poultry Processing Board (NMPPB), Govt. of India and Dutch Product Board for livestock, meat and eggs, The Netherlands - 2012.

Publications: Dr Harikrishna has published 40 research papers in peer reviewed national and international journals. He has 92 citations, out of which 12 papers were adjudged highly influential publications, and his h-index is 5. He has presented his research papers in 12 national and international seminars / workshops organized by various scientific societies like ISAPM and ISAGB etc.

He has published 46 books/ book chapters/ research bulletins, Delivered 17 Radio talks and lectures in Rythu Schools, and 11 Live Phone discussions in TV programs.

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Research Guidance: Dr Harikrishna has guided 13 MVSc students and 4 PhD scholars in various disciplines of Animal Science, e.g., LPM, Animal Nutrition, Animal Genetics & Breeding and AH Extension.

Scientific achievements: Dr Harikrishna's scientific achievements included, (1) Development and application of thermo-tolerant probiotic yeast for enhancing animal productivity. (2) Development of enzyme formulation for improving nutritivity of pig feeds. (3) Development of novel probiotic formulation for lambs. (4) Use of microclimatic alteration devices and feed additives in the form of chromium and yeast culture in reducing heat stress in livestock, particularly in Murrah buffaloes.

Dr Harikrishna was Principal Investigator of 7 research projects, viz., (1) Network project in Murrah buffalo improvement using Murrah buffalo bulls at farm and in field centres. (2) Improvement of performance of Nellore Brown sheep using single trait multistage selection. (3) Genetic improvement of graded Murrah buffaloes using open nucleus breeding system. (4) RKVY project on genetic improvement in Nellore Brown sheep by using superior germplasm at multiplication centres. (5) ICAR-DPR Poultry seed project on Backyard poultry at LRS, Mamnoon, Warangal. (6) Genetic improvement of Japanese Quails. (7) Propagation of Kadaknath poultry in Telangana and in neighbouring states. He was Co-Principal Investigator of 2 research projects, viz., (1) ICAR-TSP project on organic poultry production using 'Rajasri' variety for sustainable livelihood and nutritional security in tribal areas of Andhra Pradesh. (2) DBT project on 'Effect of PON-1 on transition period in bovines'.

Research innovations made and Products & Technologies developed: Incorporation of thermo-tolerant probiotic yeast in straw based complete diets proved beneficial in ameliorating livestock production with better growth and higher feed-conversion ratio. (2) Experimental feeding of Bt. Cotton plants did not alter the lipid and protein profile of Deccani sheep, and did not manifest toxic symptoms in animals. (3) Enzyme supplementation of maize-soya diets revealed enhancement of growth in Yorkshire piglets. (4) Feeding of *Pediococcus acidilactici* and *Saccharomyces boulardi* probiotics and farm grown *Azolla* improved body weight in growing Deccani lambs.

Patents registered: Development of micro-particles of Paraxonase-1 (PON-1) and its impact on post-parturient dairy animals (2018-19).

We pray for health, wealth, happiness, peace and prosperity for Dr Ch. Harikrishna with this quote.



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Date: 28-May-2021