



VETERINARY & ANIMAL SCIENCE RESEARCH FOUNDATION (VASREF)

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

VASREFAWARD

K. SATISH KUMAR



0321. Veterinary and Animal Science Research Foundation (VASREF) is pleased to confer the award of Fellow of Veterinary and Animal Science (FVAsc) to Dr Karlapudi Satish Kumar, Professor & University Head, Department of Veterinary Medicine, 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 K. Satish Kumar was born to illustrious parents (*Shri K.Venkata Narsu*—Father and *Shrimati K. Venkamma*—Mother) on 17-Nov-1971 in Khammam district of Telangana, located on the banks of river *Munneru* (a tributary of river *Krishna*). This serene and scenic landscape covered by magnificent coconut groves sprouting over vast stretch of velvety mat of soft green grasses was once ruled by the valiant *Kakatiya* rulers of South till 13th century AD. Khammam Fort, constructed in the 9th century (950 AD) is one of the proud icons of the *Kakatiya* rulers, was an awe inspiring citadel, now lying in a dilapidated state. The city of *Khammam* is named after lord *Narsimha Swamy*, is also famous for Sri Rama Temple at Bhadrachalam, located at the banks of river Godavari.



PodaThurpu cattle, indigenous to Telangana are the drought tolerant sturdy cattle of this region that sustain fragile environment and communities depending on them for livelihood. It is a source of sustenance for breeders and farmers. People here call them PodaThurupu (తురుపుపశువులు).



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In the native dialect (Telugu), ' *poda* ' means spot. *Thurupu* means the East indicating its origination in Nallamala Forest of Eastern Ghats. It is also called 'Mannanur' cattle. Poda Thurupu cattle are of great help to small and marginal farmers for cultivation, who cannot afford tractors and other farm machineries.

Academic credentials: Dr Satish Kumar was graduated (B.V.Sc. & A.H.) from the College of Veterinary Science of Andhra Pradesh Agricultural University (APAU), Rajendranagar, Hyderabad in the year 1994 scoring 7.72/10 GPA. He did his post-graduation (M.V. Sc.) in Clinical Veterinary Medicine from Acharya NG Ranga Agricultural University (ANGRAU) in the year 1996 scoring 8.72/10 GPA. He did his Doctor of Philosophy (Ph. D) in Veterinary Medicine from the College of Veterinary Science, Tirupati of Sri Venkateswara Veterinary University (SVVU), Tirupati in the year 2009 scoring 8.93/10 GPA.

Service Particulars: Dr Satish Kumar started his professional career as (1) Veterinary Assistant Surgeon (V.A.S), Khammam, in the Department of Animal Husbandry, Govt. of Andhra Pradesh from 14-Oct-1996 to 15-Jun-1998, followed by (2) Assistant Professor, Dept. of Veterinary Medicine, C.V.Sc.(ANGRAU), Tirupati from 21-Jun-1998 to 27-May-2000. (3) Assistant Professor, Animal Husbandry Polytechnic(ANGRAU), Palamaner, from 28-May-2000 to 30-Jun-2002. (4) Assistant Professor, Dept. of Veterinary Medicine, C. V. Sc. (ANGRAU), Rajendranagar from 01-Jul-2002 to 08-Mar-2005. (5) Assistant Professor, Dept. of Veterinary Medicine, C. V. Sc. (ANGRAU), Tirupati, from 09-Mar-2005 to 06-Sep-2006. (6) Assistant Professor, Dept of Veterinary Medicine, C. V. Sc. (ANGRAU), Rajendranagar from 07-Sep-2006 to 21-Jun-2012. (7) Associate Professor, Dept of Veterinary Medicine, C. V. Sc. (ANGRAU) Rajendranagar from 22-Jun-2012 to 16-Aug-2013. (8) Head, Veterinary Hospital (S.V.V.U / PVNRTVU), Warangal from 17-Aug-2013 to 19-May-2016. (9) Principal, Animal Husbandry Polytechnic, PVNRTVU, Mamnoon from 20-May-2016 to 19-Sep-2019. (10) Professor & University Head, Dept. of Veterinary Medicine, C. V. Sc. (PVNRTVU), Rajendranagar, till date since 20-Sep-2019.

Abbreviations: (1) APAU = Andhra Pradesh Agricultural University, Rajendranagar, Hyderabad. (2) ANGRAU = Acharya N. G. Ranga Agricultural University, Rajendranagar, Hyderabad. (3) CVSc = College of Veterinary Science, (4) PVNRTVU = Pamulaparti Venkata Narasimha Rao Telangana Veterinary University, Rajendranagar, Hyderabad. (4) SVVU = Sri Venkateswara Veterinary University, Tirupati.

Research Curriculum: Dr Satish Kumar is Principal Investigator (PI) of two research projects, viz. (1) National Agricultural Higher Education Project (NAHEP) since 01-11-2019. (2) Study (Field trial) on the prophylactic efficacy of anti-diarrhea products for prevention of neonatal calf diarrhea since 05-04-2021.

He is engaged in 8 research projects, viz. (1) Development of probiotic based calf diarrhea prevention therapy for prevention of neonatal calf diarrhea. (2) Development of polymerase spiral reaction assay technology as pen-side diagnostic test. (3) Development of NS1 recombinant protein based Indirect ELISA for serodiagnosis of BTV and development of diagnostic kit by Lateral Flow Assay for diagnosis of Brucellosis. (4) Characterization and isolation of *Malasseziapac hydermatis*, the causative agent of Canine Malasseziosis, a disease of zoonotic significance with special reference to Scanning and Transitional Electron microscopic and Immunodiagnostic aspects, which is the first of its kind in India. (5) Studies on various cardiac ailments in companion animals and livestock that revealed *Dilated Cardiomyopathy, Vulvular insufficiency, Pericardial diseases* and *Hypertrophic Cardiomyopathy*. Some of these pathological conditions are reported for the first time in India and published in '*Veterinariski Arhiv*', an international Journal of reputation. (6) Ultrasonographic evaluation of thyroid glands of normal dogs and patients with hypothyroidism, which were documented for the first time in India. (7) Diagnosis of *Helicobacter* induced chronic gastritis using rapid urease test, which was standardized first time in dogs in India. (8) Studies on association of liver disorders with right-side heart failure in Indian dogs.

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Moreover, he is specialized in standardized operation of sophisticated instruments, e.g., Smart phone based Electrocardiography, Ultrasonography, 2-d Echocardiography and Colour Doppler, for diagnosis of different cardiac ailments in veterinary patients.

Dr K. Satish Kumar is recognized as an accolade of veterinary cardiology in India.

Awards/ Honours/ Fellowships: Dr K. Satish Kumar has been decorated with several Awards, Honours, and Fellowships etc., which included, (1) Best clinical article award (Polivet Journal), 2007. (2) Best Presentation (Poster) award, XXV Annual Convention and National Symposium of ISVM at Pantnagar, 2007. (3) Best Presentation (Oral) award, XXV Annual Convention and National Symposium of ISVM at Pantnagar, 2007. (4) Best clinical article award (Polivet Journal), 2009. (5) Best Presentation (Oral) award, XXVII Annual convention and International Summit of ISVM, Chennai, 2009. (6) Best Presentation (Poster) award, Wild Life Medicine Session, XXVIII Annual Convention and National Symposium of ISVM, Hyderabad, 2010. (7) Best Presentation (Poster) award, Small Animal Internal Medicine Session, XXVIII Annual Convention and National Symposium of ISVM, Hyderabad, 2010. (8) Appreciation award for ISVM at XXVIII Annual Convention and National Symposium of ISVM at Hyderabad, 2010. (9) Best Clinical Article award (Polivet Journal), 2010. (10) Best Presentation (Poster) award, XI Annual Convention of IAAVR at Jaipur, 2011. (11) Best Presentation (Poster) award, XXIX Annual convention and National Symposium of ISVM at Mumbai, 2011. (12) Best Presentation (Oral) award, XXIX Annual convention and National Symposium of ISVM at Mumbai, 2011. (13) Best Clinical Article Award (Indian Journal of Veterinary Medicine), 2011. (14) Best Presentation (Oral) award, XXX Annual Convention and National Symposium of ISVM (Infectious Diseases of Farm Animals Session) at Aizawl, 2012. (15) Best Presentation (Oral) award, XXX Annual Convention and National Symposium of ISVM (Canine Internal Medicine Session) at Aizawl, 2012. (16) **Dr Rishendra Verma Young Scientist Award**, Veterinary Congress and XIX Annual Conference of IAAVR at Mahow, 2012. (17) Best Presentation (Oral) award at National Seminar on Emerging trends in Canine Cardiovascular Medicine: Challenges and Strategies at Tirupati, 2012. (18) Best Clinical Article award (Polivet Journal), 2011. (19) Best Presentation (Poster) award, 13th Indian Veterinary Congress of IAAVR at Bangalore, 2013. (20) Best Presentation (Oral) award at XXXII Annual Convention and National Symposium of ISVM in Infectious Diseases of Farm Animals at SKUAT, Jammu, 2014. (21) Best Presentation (Poster) award at XXXII Annual Convention and National Symposium of ISVM on Small Animal Medicine at SKUAT, Jammu, 2014. (22) Best Presentation (Oral) award in Small Animal Internal Medicine at XXXII Annual Convention and National Symposium of ISVM at SKUAT, Jammu, 2014. (23) **Dr D.C. Blood Gold Medal** at XXXII Annual Convention and National Symposium of ISVM at SKUAT, Jammu, 2014. (24) Best Presentation (Poster) award at XXXIV Annual Convention and National Symposium of ISVM at GADVASU, Ludhiana in 2016. (25) **SVVU Meritorious Teacher Award**, 2016. (26) **Dr P.K. Das Gold Medal** for Small Animal Medicine at XXXVII Annual Convention and National Symposium of ISVM at RAJUVAS, Bikaner.

Abbreviations: (1) GADVASU =Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, Punjab. (2) IAAVR =Indian Association for the Advancement of Veterinary Research. (2) ISVM = Indian Society for Veterinary Medicine. (3) RAJUVAS = Rajasthan University of Veterinary & Animal Sciences, Bikaner. (3) SKUAT = Sher-e-Kashmir University of Agricultural Sciences and Technology. (4) SVVU = Sri Venkateswara Veterinary University.

Scientific leadership (Professional assignments as office bearers of scientific societies and Research Associations): Dr Satish Kumar is associated with several professional, scientific and research organizations e.g., (1) Indian Society of Veterinary Medicine (ISVM) – Life member. (2) Veterinary Internal and Preventive Medicine Society – Life member. (3) Indian Society of Veterinary Cardiology - Life member. (4) Indian Veterinary Association - Life member. (5) Telangana State Veterinary Council- Life member. (6) Andhra Pradesh Veterinary Association - Life member.

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(7) Member of Reviewer Panel of Indian Journal of Animal Research. (8) Member of Reviewer Panel of Asian Hematology Research Journal. (9) Member of Reviewer Panel of International Journal of Pharmaceutical Research. (10) Member of Scientific Advisory Council for ICAR – KVK (Mamnoon, Warangal). (11) Member, Faculty Board of PVNRTVU. (12) Member, Academic Council of PVNRTVU.

Publication of Research papers: (1) Dr Satish Kumar has published 65 research papers (as first author) in peer reviewed national and international journals, and presented 28 research / lead papers in Seminars, Symposia and Workshops of various research organizations and societies (ISVM, IAAVR, and ISVC etc.).

The research qualities of the papers of Dr Satish Kumar can be judged from the following bibliometric measures: SCI = 139, h-index = 7 and i10-index = 3 as per the Google Scholar profile.

Books/ Book chapters / Monographs / Ext. literature/ Webinars/ Farmers' conclaves etc: Dr Satish Kumar has published (1) 7 Books / Book chapters / Research Bulletins. (2) Delivered 2 All India Radio talks. (3) Participated in 12 Live Phone-in TV programs for farmers. (4) Delivered 7 National webinars on various aspects of canine cardiology organized by different Universities during the current COVID pandemic.

Research Guidance: Dr Satish Kumar has guided 5 PhD scholars and 13 M.V.Sc. students of the Department of Veterinary Medicine and Pathology during his service in APAU, ANGRAU, SVVU and PVNRTVU.

International / National assignments / Oversea visits on scientific missions: Dr Satish Kumar has delivered guest lectures on various aspects of livestock production and disease prevention in institutions like VBRI, CRIDA, ICAR-KVK, IITC, etc., and also for field veterinarians of Andhra Pradesh and Telangana states on invitation. He has presented several invited papers on veterinary cardiology in various ISVM and ISVC Symposia.

Professional and Social welfare activities, e.g., organization of treatment and Training camps, Seminars, Webinars and Farmers' enclaves etc. for promotion of veterinary and animal science: (1) Dr Satish Kumar has had organized an Indo-US international workshop on '*Bio-security and Public health challenges encountered by veterinary hospitals in India*', in collaboration with Colorado State University, USA, during March 2012. (2) He had participated in 50 animal health diagnostic surveys in different parts of Telangana and advised the farmers about disease prevention measures for protecting the health and production of livestock. (3) He has conducted diagnostic surveys on wild animals in zoological parks, particularly in Zoo lions for detection of COVID-19 cases. (4) He has conducted disease diagnostic surveillance of LSD in cattle and buffaloes in institutional farms and in farmers' flocks.

Dr Satish Kumar was instrumental in establishment of a 'Cardiology Ward' in the Veterinary Clinical Complex of PVNRTVU for diagnosis and treatment of various cardiac ailments in veterinary patients.

Research innovations, products & technologies developed, and patents registered: Dr Satish Kumar was involved in novel innovations in respect of (1) Development of probiotic based preventives against calf diarrhea. (2) Development of 'Polymerase Spiral Reaction Assay' as point of care pen side diagnostic test. (3) Development of NSI recombinant protein based indirect-ELISA for serodiagnosis of BTV. (4) Development of diagnostic kit by Lateral Flow Assay for diagnosis of 'Brucellosis'.

Future focus of research: Dr Satish Kumar wants to undertake research on (1) Area based micro and macro mineral requirements for prevention of production diseases in livestock. (2) Prevention and control of endoparasitic infections in sheep and goats. (3) Diagnosis and management of cardiac diseases in livestock and companion animals.

We pray for health, wealth, happiness, peace and prosperity for Dr K. Satish Kumar with this quote.

गते शोको न कर्तव्यो भविष्यं नैव चिंतयेत्।
वर्तमानेन कालेन वर्तयन्ति विचक्षणाः ॥

English translation of Sanskrit Quote:

One should not regret the past.

One should not worry about the future.

Wise men act by the present time.

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Date: 10-Aug-2021