



VETERINARY & ANIMAL SCIENCE RESEARCH FOUNDATION (VASREF)

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

VASREF AWARD

VIJAYKUMAR PREMCHANDBHAI VADODARIA (V.P. VADODARIA)



0117. Veterinary and Animal Science Research Foundation (VASREF) is pleased to confer the award of Fellow of Veterinary and Animal Science (F.V.A.Sc.) to Professor (Dr) V.P. Vadodaria, Retired Dean and Principal, Veterinary College (Sardarkrushinagar Dantiwada Agricultural University), Gujarat, India, in recognition of his momentous contribution to veterinary and animal science.

Antecedent: Professor (Dr) Vadodaria was born in Viramgam, a gateway to Gujarat and Saurashtra, on 7th June 1948.

Academic accomplishments: Professor (Dr) Vadodaria completed his graduation (BVSc & AH) in the year 1970 from Gujarat Veterinary College (Sardar Patel University), Anand, Gujarat in first class, post-graduation (MVSc) in Animal Physiology in the year 1976 from Gujarat Veterinary College (Gujarat Agricultural University), Anand, in first class, and Doctor of Philosophy (PhD) in Animal Physiology in the year 1988 from Gujarat Veterinary College (Gujarat Agricultural University), Anand, in first class.

Dr Vadodaria was awarded Amul Research Development Association Gold Medal for obtaining University first rank with first class in BVSc & AH in 1970. He was awarded Bombay Humanitarian League Gold Medal for securing highest aggregate score in all the subjects of Animal Husbandry in BVSc & AH in 1970. He was awarded Amul Research Development Association Silver Medal for securing first rank in first class in BVSc & AH (First year) examination in the year 1967, and for securing first rank in first class in BVSc & AH (second year) examination in the year 1968, and for securing first rank in first class in BVSc & AH (Third year) examination in the year 1969.

Service particulars: Professor (Dr) Vadodaria was Professor of Physiology and Biochemistry at Dantiwada Veterinary College, Sardarkrushinagar as well as at Gujarat Veterinary College, Anand, and Dean & Principal of Dantiwada Veterinary College (SDAU). He had also held additional charge of Director of Campus (DC) as well as of Director of Students Welfare (DSW) of SDAU.

Scientific achievements: Professor (Dr) Vadodaria's studies has successfully established fertility booster physico-chemical and bio-chemical parameters in the cervical mucus of heifer, and primiparous and multiparous buffaloes. His studies divulged that cervical mucus of thin consistency, greater volume, lower alkaline pH, higher concentrations of sodium, zinc, manganese, and iron, and lower concentrations of potassium, chloride, calcium, magnesium, and copper favoured the conception rate. Higher levels of glucose and LDH, and lower levels of glycogen, total cholesterol, total proteins, and sialic acid in cervical mucus enhanced the conception rate.

His studies on development of pancreatic juice and duodenal digesta enzymes in cattle and buffalo calves from birth to early ruminant stage has revealed that the levels of amylase and lipase were influenced by age and feeding effects in both cattle and buffalo calves. Overall post-prandial levels of amylase increased due to feeding to an extent of 66.17% as compared to fasting values. The levels (SU/dl) gradually increased from colostrum feeding (32.72) to milk replacer powder (55.70), and then with inclusion of concentrate and hay (109.41) along with the feeding of dry and green fodder

(132.43) indicating that amylase level was lower at the time of feeding liquid diet, that increased with the incorporation of solids in the diet.

Pancreatic lipase and maltase contents were exclusively higher in buffalo calves as compared to cow calves right from the birth till the study was terminated on 15th week age. Lactase decreased with age in both the species of calves.

Duodenal digesta parameters increased with age and response was species specific. It was an interesting point to note that cellobiase greatly increased in buffalo calves with age. Overall, feeding stimulated secretion of all estimates studied but increments were higher in buffalo calves than in cow calves.

Publications: Professor (Dr) Vadodaria has authored 64 research papers, out of which 10 research papers were published in international research journals. He had presented a research paper at the International Buffalo Congress at Manila (Philippines) in the year 1996 on invitation from the Asian Buffalo Association Congress. The rest of the research papers were published in national research journals of repute. He has authored 14 popular science articles in animal science for easy access of research findings to common man. He has contributed one chapter in the book *Vigyan kaush shreni: Physiology and Anatomy* chapter for Gujarat Granth Nirman Board.

Research Guidance: He has guided three MVSc and one PhD scholar.

Professional Honours and Awards: Professor (Dr) Vadodaria was awarded jointly Shri Hariom Ashram Prerit Prof. J.P. Trivedi award for his momentous contribution to animal science in recognition of his conscientious research in the field of “Development of pancreatic juice and duodenal digesta enzymes in cattle and buffalo calves from birth to early ruminant stage” in the year 2001. He was given Rastriya Vidya Saraswati Puraskar for outstanding achievements in chosen field of activity in the year 2009.

Member of Professional Organizations: Professor (Dr) Vadodaria was a member of Executive Committee of Society of Animal Physiologists of India (SAPI) and Indian Society for the study of Animal Reproduction (ISSAR), Gujarat chapter. He was President, Education Committee, Gujarat Veterinary Council, Gandhinagar. He is the Review Editor of Animal Science Reporter (international Journal of Animal Science Research // ISSN 0974-6307).

Professor (Dr) Vadodaria retired from service on superannuation on 30th June, 2010. He is still active in social and scientific activities. We wish him a long, hearty, and healthy post-retirement life with this sermon.

कर्मण्येवाधिकारस्तेमाफलेषुकदाचन ।
माकर्मफलहेतुर्भूर्मातेसङ्गोऽस्त्वकर्मणि ॥

*karmaṇy-evādhikāras te mā phaleṣhu kadāchana
mā karma-phala-hetur bhūr mā te saṅgo 'stvakarmaṇi*

*To action alone hast thou a right and never at all to its fruits; let not the fruits of action be thy
motive, never let there be in thee any attachment to inaction (Gita, 2.47)*

(As translated by Dr. S. Radhakrishnan)

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