



VETERINARY & ANIMAL SCIENCE RESEARCH FOUNDATION (VASREF)

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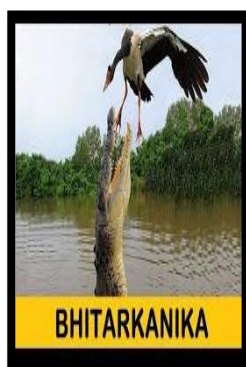
VASREF AWARD

PRAMOD KUMAR ROUT



0218. Veterinary and Animal Science Research Foundation (VASREF) is pleased to confer the award of Fellow of Veterinary and Animal Science (FVASc) to Dr Pramod Kumar Rout (P.K. Rout), Principal Scientist (Animal Genetics and Breeding), ICAR Central Institute for Research on Goats, Makhdoom (P.O. Farah), District Mathura, Uttar Pradesh, India in recognition of his momentous contribution to veterinary and animal science in the year 2018.

Antecedent: Dr Rout was born in Nuapara village in Kendrapara district on 5th June 1963 in coastal Odisha, famous for its grand light house (125 feet tall), which was the first lighthouse built by the British rulers in the east coast of India that emitted its first light on 16 October 1837. Kendrapada is also famous for the picturesque sea and its wild life sanctuary in Bhitarkanika, the Amazon of India.



Academic credentials: Dr Rout was graduated (BVSc & AH) in 1987 in First Division with 72.8% marks from the College of Veterinary Science and Animal Husbandry (Orissa University of Agriculture & Technology), Bhubaneswar, and Post-Graduation (MVSc) in Animal Genetics and Breeding in 1990, with 3.269/4.0 OGPA (First Division), and Doctoral Degree (PhD) in Animal Genetics and Breeding from the Indian Veterinary Research Institute (IVRI), Izatnagar, Uttar Pradesh in 1995 with 8.27/10 OGPA. He had worked as post-doctoral fellow for 2 years (1994-1995) at National Institute of Immunology, New Delhi in Molecular Virology/ Molecular Biology at the National Institute of Immunology, New Delhi. He had attended the Training Programme on “Genetics of Thermoregulation in Livestock” at William Parker Agricultural Research Centre, University of Arizona, Tucson, USA during October 2012.

Service Particulars: Dr Rout joined the Agricultural Research Service (ARS) as Scientist at the ICAR Central Institute for Research on Goats in the year 1995, and was elevated as Principal Scientist (Animal Genetics & Breeding) in the year 2010 from Scientist through Scientist (Sr Scale), and Sr. Scientist in 1995, 2004, and 2009 respectively. He is working currently as project Coordinator (AICRP-Goats) at CIRG since 2015.

Research curriculum: Dr Rout was the Principal Investigator of seven research projects: (1) Genetic Variability of Milk Protein and its Characterization by Proteomic Approach in Indian Goats (2017-2020) sponsored by NASF-ICAR. (2) Bioprospecting of genes and allele mining for abiotic and stress tolerance (2009-2014) sponsored by NAIP. (3) Improvement and sire evaluation of Jamunapari goats

(2010-2017) sponsored by ICAR. (4) Molecular characterization of different breeds of goat by DNA fingerprinting using Bkm probe and microsatellite markers (2001-2004) sponsored by DBT. (5) Molecular analysis of major genes and quantitative trait loci influencing growth, reproduction and disease resistance traits in Indian goats (2007-2012) sponsored by CIRG. (6) Improvement and Conservation of Jamunapari goat in its home tract (2007-2012) sponsored by CIRG. (7) Genetic variants of polymorphic traits and gene marker studies in Indian goat breeds (1999-2004) sponsored by CIRG.

He was Co-PI of 8 research projects. (1) National Innovation in climate resilient agriculture (2014-2017) sponsored by NICRA. (2) Achieving improved livelihood security through resource conservation and diversified (2009-2013) sponsored by NAIP. (3) Assessing resilience of small ruminant production under changing climatic condition in semi-arid zone (2010-2013) sponsored by NICRA. (4) Development of DNA vaccine against Brucellosis in goats (2001-2004) sponsored by NATP. (5) Development of molecular diagnostic for the control of mycoplasmal mastitis/agalactia in goats (2005-2007) sponsored by CIRG. (6) Evaluating different animal models for analysing the growth rates in sheep (2004-05) sponsored by CIRG. (7) Network Programme on estimation of methane emission under different feeding systems and development of mitigation strategies (2013-2015) sponsored by ICAR. (ICAR-NIANP, Bengaluru coordinated). (8) Studies on genetic diversity in gastro-intestinal nematode *Haemonchus contortus* (2002-2003) sponsored by CIRG.

Overseas Research Assignments: Dr Rout had worked on the project “Exploring, modelling and exploiting the genetic resistance of goats in response to gastro intestinal nematodes with special reference to *Haemonchus contortus* infection availing DBT overseas associateship in Genetics and Genomics Division of Rosalin Institute, Edinburgh, UK in collaboration with Prof. S.C. Bishop in the year 2009. He had worked on ‘Heat stress regulation in Livestock’ at University of Arizona, Tucson, USA (October 14-31, 2012).

Scientific achievements: His field of specialization is genetics of disease resistance. He is a researcher in the area of genetic improvement of livestock and improving selection decisions with molecular genetics application. His research contributions are in the areas of genetic diversity of livestock, conservation and management of animal genetic resources, Genetics of disease resistance, Genetics of heat stress regulation in livestock and milk genomics. He has also worked in the area of conservation of endangered goats in their natural habitat.

He had established genetic origin of Indian goats and established new concepts on the origin of Indian goat breeds and their probable domestication. His focused research on milk proteome analysis established that Indian goats are carrying better allelic combination for protein yield as compared to European goats. He has also worked in the area of conservation of endangered goats in their natural habitat with active participation of farmers under All India Coordinated Research Project.

Publications: Dr Rout has published 135 research papers in various national and international journals, besides contribution of 102 research abstracts in various national and international seminars and symposia. He has authored two books, three training manuals, 26 popular articles, and contributed specific chapters in 17 books.

Research Guidance: Dr Rout has guided 16 MSc/ MVSc and 5 PhD Scholars.

Professional Honours/ Awards: Dr Rout had received ‘Visiting Fellowship’ of Department of Science and Technology (DST) in 1998, Associateship of Department of Biotechnology (DBT) in 2008, Fellowship of Mobilization Society, New Delhi in 2008, Fellowship of Bioved Research Society, Allahabad (UP), India in 2009, and Membership of National Academy Veterinary Sciences (NAVSI), New Delhi, India in 2010 for scientific excellence.

Professional Assignments: Dr Rout was Member Secretary of SFPC (2007-2017), QRT (2009-2014), and IRC (2010-2015) of ICAR-CIRG, Member of Institute Management Committee of ICAR-CARI,

Izatnagar (2013-2016), ICAR-NIVEDI, Bengaluru (2016-2019), Member of Assessment Committee of Scientists, ICAR-IVRI, Izatnagar (2012-2013), ICAR-NDRI, Karnal (2013), ICAR-RCER, Patna (2016), ICAR-CSWRI, Avikanagr (2017), ICAR-CIRC, Meerut (2017), ICAR-NBAGR, Karnal (2017). He has worked as member, Technical Monitoring committee for Conservation of threatened breeds of goats, Animal Resources Development Department, Agartala, Tripura (2010), Member of conducting due diligence of project under Small Business Research Initiative (SBIRI), Department of Biotechnology, Ministry of Science and Technology, New Delhi (2008). Member of expert committee for developing a breeding plan for breed improvement of goat and sheep, organized by Ministry of Agriculture, Govt. of India (22/08/2016), Panelist for the workshop on Panel discussion with the course directors of the National Training under NAIP, IFPRI, New Delhi (2014). He was the visiting faculty of ICAR-IVRI, Izatnagar (2017).

Overseas Assignments: Dr Rout was a reviewer of the project proposal for International Foundation for Science, Sweden (2013). He had participated in Investors' round table on public-private producer partnership on small ruminant value chain development (July 11-12, 2016) organized by IFAD, Rome.

Editorial Assignments: Dr Rout was Associate Editor of World Research Journal of Veterinary Medicine, Bioinfo Publication (2013-2016), Member of Editorial Board of Journal of Genetic engineering and Biotechnology, Elsevier International (2011-2017), Research Editor, Animal Science Reporter (International Journal of Animal Science Research // ISSN 0974-6307), Member of Editorial Board of Indian Journal of Animal Production since 2010.

Organisational Leadership: Dr Rout had worked as Executive member of Indian Society of Sheep and Goat Production and Utilization (ISSGPU), CSWRI, Avikanagar, Rajasthan (2000-2005) and as member of editorial board of ISSGPU (2005-2008).

Future plan of research: Identification of heat stress susceptible and tolerant phenotypes in goats in semi-arid tropics.

We pray for a hearty, healthy and prosperous career for Dr Rout with the following Vedic hymn from *Isha Upanishad*.

ॐ पूर्णमदः पूर्णमिदं पूर्णात्पूर्णमुदच्यते
पूर्णस्य पूर्णमादाय पूर्णमेवावशिष्यते ॥
ॐ शान्तिः शान्तिः शान्तिः ॥

Om Purnamadah Purnamidam Purnat Purnamudachyate
Purnasya Purnamadaya Purnameva Vashishyate
Om shanti, shanti, shanti

Om That is infinite, this is infinite; From That infinite this infinite comes.
From That infinite, this infinite removed or added; Infinite remains infinite.
Om. Peace! Peace! Peace!

Address for communication

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