



Dr. G. NAGARAJAN, M.V.Sc., Ph.D.

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Abstract:

- ✓ Over **10+ Years of Experience** in Biotechnology – Animal Science
- ✓ Currently working as a **Senior Scientist** in Indian Council of Agricultural Research
- ✓ **Doctorate in Animal Biotechnology**
- ✓ Excellent knowledge in **Formulation and Execution of Research Projects**
- ✓ Strong experience in **development of diagnostics and vaccines** against the infectious diseases of animals and human beings
- ✓ Capable of **representing and implementing research solutions**
- ✓ Good experience in **leading a group of scientists** in the team for research works.

Objective:

With good knowledge in **Biotechnology** and experience in research projects, I would like to set my career in **Biotechnology Research profiles**.

Work Experience

- ✓ From May 2014 to till date: **Senior Scientist**, at Southern Regional Research Centre(CSWRI-ICAR),Mannavanur, Kodaikanal ,Tamil Nadu
- ✓ From July 2013 to May 2014: **Senior Scientist**, National Research Center on Camel, Bikaner, Rajasthan
- ✓ From Feb.2004 to July 2013: **Scientist**, National Research Center on Camel, Bikaner, Rajasthan
- ✓ From 1999 – 2000: **Senior Research Fellow**, Dept. of Animal Biotechnology, Madras Veterinary College, Chennai

Education Qualification

- ✓ **Ph.D.**, Indian Veterinary Research Institute, Izatnagar - 2005.
Score : 8.212 out of 10.000(First Class) with specialization in Animal Biotechnology
- ✓ **M.V.Sc.**, Madras Veterinary College, TANUVAS, Chennai – 1999
Score: 9.0 out of 10.0 (First Class) with specialization in Animal Biotechnology

- ✓ **B.V.Sc.**, Veterinary College and Research Institute, Namakkal, TANUVAS, Chennai- 1996
Score: 3.79 out of 4.00 (First Class) with specialization in Veterinary Science
- ✓ **Higher Secondary** – Year of Completion: 1989
First Class, 1054 out of 1200 (87.8%)
- ✓ **S.S.L.C** – Year of Completion: 1987
First Class, 432 out of 500 (86.4 %)

Details of Professional Recognitions/Awards/Fellowships

- ✓ Awarded Jawaharlal Nehru University Fellowship for pursuing M.V.Sc. Degree in Animal Biotechnology at Madras Veterinary College, Chennai, 1996.
- ✓ Qualified “**National Eligibility Test**” (NET) for Lectureship and Assistant Professorship in Animal Biotechnology, conducted by Agricultural Scientists Recruitment Board (ICAR), New Delhi
- ✓ Awarded “**ICAR-Senior Research Fellowship**” conducted by Agricultural Scientists Recruitment Board (ICAR), New Delhi, 2000.

Major Research Projects

- ✓ **As a Principal Investigator**

1. Title of the project : **Molecular cloning and characterization of cameline cytokine gene(s).**
Fund Allotted : Rs.41, 72,300/-
Sponsoring Agency : National Research Center on Camel, Bikaner, Rajasthan
Period : August 2007 – December 2013.
2. Title of the project : **Epidemiology of viral diseases of camels.**
Sponsoring Agency : National Research Center on Camel, Bikaner, Rajasthan
Period : August 2007- December 2013.
3. Title of the project : **Bioprospecting of genes and allele mining for abiotic stress tolerance**
Fund Allotted : Rs. 53.575 lakhs /-
Sponsoring Agency : World Bank
Period : From April 2009 to March 2014
4. Title of the project : **Integrated approaches for maximizing production of broiler rabbits in Southern region**
Fund Allotted : 15.0 lakhs /-
Sponsoring Agency : ICAR- CSWRI
Period : From April 2018 and continuing

✓ **As a Co-Investigator**

- 1. Title of the project : Development of a cell culture adapted live attenuated camelpox vaccine**
Sponsoring Agency : National Research Center on Camel, Jorbeer, Bikaner, Rajasthan
Period : August 2008 to April 2010.
- 2. Title of the project : Characterization of Toll-like Receptors (TLR) in Camel**
Sponsoring Agency : National Research Center on Camel, Bikaner, Rajasthan
Period : From January 2012 to May 2014
- 3. Title of the project : Bionomics and Molecular characterization of ticks infesting the camels**
Sponsoring Agency : National Research Center on Camel, Bikaner, Rajasthan
Period : September 2010 to December 2012.
- 4. Title of the Project : Genetic Improvement of Bharat Merino Sheep**
Sponsoring Agency : ICAR- Central Sheep and Wool Research Institute, Avikanagar, Rajasthan
Period : From October 2014 and March 2017
- 5. Title of the Project : Integrated Approaches for Improvement of Mutton Sheep Production System in Southern Tamil Nadu and Status Appraisal of Technology Adoption level in Field**
Sponsoring Agency : ICAR- Central Sheep and Wool Research Institute, Avikanagar, Rajasthan
Period : From October 2014 and March 2017
- 6. Title of the Project : Performance Evaluation of Avikalin sheep in sub-temperate region of India**
Sponsoring Agency : ICAR- Central Sheep and Wool Research Institute, Avikanagar, Rajasthan
Period : From April 2017 and continuing
- 7. Title of the Project : Genetic Improvement of Bharat Merino Sheep through selective Breeding**
Sponsoring Agency : ICAR- Central Sheep and Wool Research Institute, Avikanagar, Rajasthan
Period : From April 2017 and continuing

TECHNICAL EXPERIENCE

- ✓ **Molecular biology:** Genomic DNA and RNA isolation; Polymerase chain reaction ; Plasmid isolation; subcloning ; Development of recombinant proteins using bacterial, yeast and mammalian systems
- ✓ **Immunology:** Vaccine trial in guinea pigs and cattle ; Analysis of immune response to

Vaccines in animals using techniques like ELISA, SNT and MTT ; Antisera generation ;
Western blotting

- ✓ **Biochemistry:** Spectrophotometric enzyme assays; protein quantification; ion exchange, and affinity chromatography; SDS-polyacrylamide gel electrophoresis.
- ✓ **Tissue Culture:** Mammalian adherent and nonadherent cell culture; Propagation of viruses in cell lines; transfection studies; cell separation, including Percoll density gradient and centrifugal elutriation; hybridoma culture.

Teaching/Research Experience

Designation: Scientist

Institution: Department of Biotechnology, National Research Center on Camel, Bikaner (from Feb 2004 to May 2014) and Southern Regional Research Centre, Mannavanur, Kodaikanal-3 (from May 2014 to till date)

Total Years: 10 years and continuing

1. Designation: Co-Guide

Institution: Department of Zoology, Maharaja Ganga Singh University, Bikaner

Total Years: 4 Years

Institution: Department of Veterinary Biochemistry, College of Veterinary and Animal Science, Rajasthan University of Veterinary and Animal Sciences, Bikaner

Total Years: 3 Years

Trainings undergone

Title	Duration	Institution	Year
Recent concepts in bull fertility and quality semen production for improving fertility in farm animals	10 days (14 th September 2015 to 23 rd September 2015)	ICAR- National Institute of Animal Nutrition and Physiology, Bangalore	2015
Advanced concepts & techniques to augment reproduction in livestock	21 days (12 th November 2014 to 2 nd December 2014)	ICAR- National Institute of Animal Nutrition and Physiology, Bangalore	2014
New insights in parasite disease epidemiology and control	21 days (6 th February 2006 to 26 th February 2006)	Veterinary College, Bangalore	2006
Foundation course for agricultural research services (78 th FOCARS)	4 months (10 th August 2004 to 7 th December 2004)	National Academy of Agricultural Research & Management, Hyderabad	2004

Additional Qualifications

- ✓ Statistical packages like SPSS and basic statistical programmes
- ✓ Familiar with databases like NCBI, EMBL retrieval of Sequences and Analysis
- ✓ Experience in working with BioEdit, ClustalX, GENE RUNNER, Treecon, tree view, NTYSIS etc.

Research Guidance (as co-guide)

Student	Title of the thesis	Degree and Year	University
Harish K. Chagal	Molecular Cloning and Characterization of Salivary gland protein genes of <i>Hyalomma dromedarii</i>	Ph.D in Biotechnology - 2010	Maharaja Ganga Singh University, Bikaner
Ramakant Sharma	Role of Protection Provided by Liv -52 against Radiation and Cadmium induced hematological Changes in Swiss Albino Mice	Ph.D in Biotechnology - 2011	Maharaja Ganga Singh University, Bikaner
Dr.Shikha Gupta	Effect of iodine over dosage on blood biochemical indices in Marwari goats	M.V.Sc in Veterinary Biochemistry - 2011	Rajasthan University of Veterinary and Animal Sciences , Bikaner
Dr.Suresh Yadav	Effect of induced hypothyroidism and its effects on some important blood biochemical parameters in Marwari goats	M.V.Sc in Veterinary Biochemistry- 2011	Rajasthan University of Veterinary and Animal Sciences , Bikaner
Dr.Nirmala Meena	Comparative study of thiourea feeding and potassium iodide supplementation on blood thyroid hormone profile on Marwari goats	M.V.Sc in Veterinary Biochemistry - 2012	Rajasthan University of Veterinary and Animal Sciences , Bikaner
Gaurav Sharma	Characterization of integrin gene(s) of Dromedarian camel (<i>Camelus dromedarius</i>)	Ph.D in Biotechnology-2014	Maharaja Ganga Singh University, Bikaner

Contributions to Magazines/Compendium

1. Published four Articles in KARABH (NRCC - National Research Center on Camel Annual Hindi Magazine-ISSN 2319- 8567).
2. Contributed topics in the compendium compiled for the short course on “Camel health and Management.”
 - ✓ Viral diseases of camels: R.K.Singh, **G.Nagarajan**, S.K.Ghorui and S.K.Swami. Page No. 7-9.
 - ✓ Parasitic diseases of Indian dromedary camel: Sanjay, **G.Nagarajan**, Narnaware. Page No. 20-25.
 - ✓ Management of mastitis in camels: F.C.Tuteja, S.K.Ghorui, **G.Nagarajan**, Page No. 26-30.
 - ✓ Fungal diseases of camel: S.K.Ghorui, F.C.Tuteja, S.D.Narnaware, **G.Nagarajan**. Page No. 31-33.
 - ✓ Bacterial diseases of camel: Sanjay Kumar, F.C.Tuteja, Narnaware, **G.Nagarajan**. PageNo.34-37.
3. Published a manual viz., Camel dermal mycoses: a diagnostic pictorial ((NRCC - National Research Center on Camel -ISBN 978-81-927935-0-4) - F.C.Tuteja, N.V.Patil, **G.Nagarajan**, S.D.Narnaware ,S.S.Dahiya, R.K.Singh, K.M.L.Pathak and Sajjan Singh.Page No. 1 to 84.

List of Publications in International Journals

1. **Nagarajan G**, Ghorui S. K, Kumar S. and Pathak K. M. L. (2010). Complete nucleotide sequence of the envelope gene of pseudocowpox virus isolates from Indian dromedaries (*Camelus dromedarius*). Archives of Virology. 155: 1725-1728. (Springer)
2. Chockalingam, A.K., S. Thiyagarajan, **Nagarajan** Govindasamy, R. Patnaikuni, S. Garlapati, R.R.Golla, D.H. Joyappa, P. Krishnamshetty, V.V.S. Veluvarti (2010). Study of a chimeric Foot-and-mouth disease virus DNA vaccine containing structural genes of serotype O in a genome backbone of serotype Asia 1 in guinea pigs. Acta Virologica 54: pp.189 – 195.
3. **Nagarajan**, G., P. Ravi Kumar, C. Ashok Kumar, G. R Reddy, H. J. Dechamma and V .V. S Suryanarayana(2011). Self replicating gene vaccine carrying P1-2A gene of FMDV serotype O and its effects on the immune responses of cattle. Indian Journal of Virology, 22 :50-58 (Springer)
4. **Nagarajan** G, Swami S. K., Ghorui S. K., Pathak K. M. L., Singh R. K. and Patil N. V. (2011). Cloning and phylogenetic analysis of Interleukin-6 (IL-6) and Tumor necrosis factor- α (TNF- α) from Indian dromedaries (*Camelus dromedarius*). Comparative Immunology, Microbiology and Infectious Diseases. 34: 291-298.(Elsevier)
5. Saravanan, T., C. Ashok Kumar, G. R. Reddy, H. J. Dechamma, G. **Nagarajan**, P. Ravikumar, G. Srinivas and V. V. S. Suryanarayana (2011). Construction of genome-length cDNA for foot-and-mouth disease virus serotype Asia 1 IND 63/72 vaccine strain. International Journal for Biotechnology and Molecular Biology Research Vol. 2(2), pp. 39-45.
6. **Nagarajan** G, Swami S K, Dahiya S. S., Sivakumar G, Narnaware S D, Tuteja F C and Patil N V (2011). Sequence analysis of topoisomerase gene of pseudocowpox virus isolates from camels (*Camelus dromedarius*). Virus Research. 158: 277-280. (Elsevier)
7. Bera B.C, K Shanmugasundaram, Sanjay Barua, G. Venkatesan, T. Riyesh, V Bhanuprakash, B.R. Gulati, R.K. Vaid, Nitin Virmani, N.K Kakker, P Malik, Manish Bansal, S Gadvi, RV Singh, V. Yadav, Sardarilal, G. **Nagarajan**, V. Balamurugan, M. Hosamani, K.M.L. Pathak and R.K. Singh (2011). Zoonotic cases of Camel pox infection in India. Veterinary Microbiology 152, 29–38. . (Elsevier)
8. **Nagarajan** G, Swami, Shelesh Kumar Ghorui, S.K., Pathak, K.M.L., Singh R.K. and Patil. N.V. (2012). Cloning and sequence analysis of IL-2, IL-4 and IFN- γ from Indian Dromedary camels (*Camelus dromedarius*) Research in Veterinary Science: 92, 420-26. (Elsevier)
9. Pervaiz Ahmad Dar, Kondabattula Ganesh, **Nagarajan**. G, Sarika S, Golla R. Reddy and Veluvarthy V. S. Suryanaryana (2012). Sindbis virus replicase-based DNA vaccine construct containing FMDV specific multivalent-epitope gene: Studies on its immune responses in guinea pigs. Scandinavian Journal of Immunology: 76, 345–353.(Wiley)
10. **Nagarajan**, G., Swami, Shelesh Kumar., Dahiya, Shyam Singh, Narnaware, S.D., Tuteja, F.C. and Patil, N.V. (2013). Comparison of Virokine from camel pseudocowpoxvirus (PCPV) with Interleukin 10 of the Dromedary camel (*Camelus dromedarius*). Cytokine 1(2): 356-359. (Elsevier)
11. **Nagarajan**,G., Shelesh Kumar Swami, Shyam Singh Dahiya, G. Sivakumar, Vinay Kumar Yadav, F.C. Tuteja, S.D. Narnaware and N.V. Patil (2013). Phylogenetic analysis of immunomodulatory protein genes of camelpoxvirus obtained from India. Comparative Immunology, Microbiology and Infectious Diseases 36: 415– 424 (Elsevier)
12. Pervaiz A. Dar, Veluvarthy S. Suryanaryana, G. **Nagarajan**, Golla R. Reddy, J. Dechamma, Ganesh Kondabattula (2013). DNA prime-protein boost strategy with replicase-based DNA vaccine against foot-and-mouth disease in bovine calves. Veterinary Microbiology, 163: 62–70. (Elsevier)
13. Narnaware, S.D., G. **Nagarajan**, S.S. Dahiya, G. Sivakumar, F.C. Tuteja and N.V. Patil (2013). Chronological classification of pathomorphological lesions in dromedary contagious ecthyma infection. Journal of Camel Practice and Research 20 (1): 1-6.

14. Tuteja, F.C., N.V. Patil, S.D. Narnaware, **G. Nagarajan** and S.S. Dahiya (2013). Primarily human pathogenic fungi causing dermatophytosis in camel. *Journal of Camel Practice and Research*. Vol. 20 No 2, p 1-5
15. Tuteja, F.C., N.V. Patil, S.D. Narnaware, **G. Nagarajan** and S.S. Dahiya (2013). Camel Dermal Mycoses 4: Camel dermal mycoses caused by dermatophytes. *Journal of Camel Practice and Research*, Vol. 20 No 2, p 157-165
16. Tuteja, F.C., N.V. Patil, S.S. Dahiya, S.D. Narnaware and **G. Nagarajan** (2014). Dimorphic fungi isolated from camel dermal mycoses. *Journal of Camel Practice and Research*, Vol 21 No 1, p 1-6
17. Narnaware, S.D., S.S. Dahiya, **G. Nagarajan**, F.C. Tuteja and N.V. Patil (2014). Congenital diaphragmatic hernia in dromedary foetuses. *Journal of Camel Practice and Research*, Vol 21, No 1, p 1-4
18. **Nagarajan.G**, Shelesh Kumar Swami, Shyam Singh Dahiya, G.Sivakumar, F.C.Tuteja, S.D.Narnaware, S.C.Mehta, Raghvendar Singh and N.V.Patil (2014). Comparative sequence analysis of double stranded RNA binding protein encoding gene of parapoxviruses from Indian camels. *Journal of Advanced Research*, 5; 271–276. (Elsevier)
19. Shyam S. Dahiya, Govindasamy **Nagarajan**, Vijay K. Bharti , Shelesh K. Swami, Sharat C. Mehta, Fateh C. Tuteja, Shirish D. Narnaware and Nitin V. Patil (2014). Sequence analysis of the Toll-like receptor 2 gene of old world camels. *Journal of Advanced Research* (2014) 5, 695–704. (Elsevier)
20. Harish K.Changal, **G. Nagarajan**, R.K.Purohit, Shelesh Kumar Swami, S. C. Mehta and K.M.L. Pathak (2014). Molecular Characterization of *Hyalomma dromedarii* from Bikaner, India. *Banat's Journal of Biotechnology*, 10; 52-58.
21. **Nagarajan.G**, Shelesh Kumar Swami, Shyam Singh Dahiya, S.D.Narnaware, S.C.Mehta, P.K.Singh, Raghvendar Singh, F.C.Tuteja, and N.V.Patil (2015). Characterization of GM-CSF-inhibitory factor and Uracil DNA glycosylase encoding genes from camel pseudocowpoxvirus *Research in Veterinary Science*, 100: 291–296
22. Narnaware Shirish Dadarao , Shyam Singh Dahiya , Fateh Chand Tuteja , **Govindasamy Nagarajan** , Kashi Nath & Nitin Vasantrya Patil (2015) . Pathology and diagnosis of Mycobacterium bovis in naturally infected dromedary camels (*Camelus dromedarius*) in India. *Tropical Animal Health and Production* , 47:1633–1636 : DOI 10.1007/s11250-015-0905-5
23. Shelesh Kumar Swami, Anushri Vijay, **Govindasamy Nagarajan**, Ramneek Kaur & Meera Srivastava (2016). Molecular Characterization of Pro-Inflammatory Cytokines Interleukin-1 β and Interleukin-8 in Asian Elephant (*Elephas maximus*). *Animal Biotechnology* , 27:1, 66-76, DOI: 10.1080/10495398.2015.1088449
24. Tuteja.F.C., S.S.Dahiya,**G.Nagarajan**, S.D.Narnaware and N.V.Patil (2016). Filamentous fungi isolated from cases of camel skin lesions. *Journal of Camel Practice and Research*, 23(2); 223-225
25. Sivakumar, G., Shelesh Kumar Swami, **Govindasamy Nagarajan**, S.C.Mehta, F.C.Tuteja, M.Ashraf and N.V.Patil (2018). Molecular Characterization of *Hyalomma dromedarii* from North Western Region of India based on the gene sequences encoding Calreticulin and Internally Transcribed Spacer Region 2. *Gene Reports*, 10: 141–148
26. **Govindasamy Nagarajan**, Shelesh Kumar Swami, Fateh C.Tuteja, Gaurav Sharma Sharat C. Mehta, Nirmala Saini and Nitin V.Patil. Cloning and sequence analysis of 163R and 201R genes of camelpoxvirus from Indian Dromedaries (*Camelus dromedarius*) (2018). *Virology & Immunology Journal*, 2(1): 000139.

List of Publications in National Journals

1. Gracious Ross, R., **G.Nagarajan**, S.Selvasubramanian and S.Jayasundar. (2003). Restoration of phagocytic function of the reticuloendothelial system by levamisole in dexamethasone treated rabbits. *Indian Journal of Animal Sciences*, vol 73 (2) pp-178-179

2. **Nagarajan, G.**, C.Ashok Kumar, H.J.Dechamma, G.R.Reddy, K.Ganesh and VV.S. Suryanarayana.(2008). Cloning and expression of FMDV-VP1 immunoreactive peptide in trivalent form and its application as immunogen. *Indian Journal of Biotechnology*, Vol .7, pp - 472-477.
3. Dechamma,H.J., C.Ashok Kumar **G.Nagarajan** and VV.S.Suryanarayana(2008). Multimer form of Foot-and-mouth disease virus VP1-2A proteins expressed in E.coli and was processed into monomers. *Indian Journal of Experimental Biology*, Vol.46, pp-760- 763
4. Dechamma, H.J., C.Ashok Kumar **G.Nagarajan** ,G.R.Reddy and VVS.Suryanarayana (2008). Production of high titred immune reactive serum against FMDV. *Indian Journal of Animal Sciences*, Vol.78 (11).pp-1179-1182.
5. **Nagarajan G.**, Ghorui S. K, Kumar S, Dixit S. K., Sena D. S., Tuteja F. C, Pathak K. M. L. (2010). Incidence of contagious Ecthyma in Indian dromedaries, *Indian Veterinary Journal*. 87: 1146-1147
6. Tuteja, F.C., Patil, N.V. Narnaware, S.D., Dahiya, S.S., **Nagarajan, G.**, Sivakumar, G. and Nath, K. (2012). Mortality of a neonatal camel calf due to paecilomycosis infection of the lungs. *Veterinary Practitioner*: 13: 319-321.
7. Narnaware, S.D.,F.C. Tuteja, S.S. Dahiya, **G. Nagarajan**, S. K. Ghorui and N. V.Patil (2013). Primary epicardial haemangiosarcoma in a dromedary camel (*Camelus dromedarius*) . *Veterinary Practitioner*, Vol.14 No. 2 (Supple. 1):530-532.
8. Narnaware, S.D., Dahiya, S.S., **Nagarajan, G.** and Tuteja, F.C. (2014). Lung abscesses in a dromedary camel (*Camelus dromedarius*). *Indian Journal of Veterinary Pathology*, 38(4) : 278-280.
9. Ashraf,M., Meera Srivastava, S.K.Ghorui,**G.Nagarajan**, and Sanjay Kumar (2015). Cloning and sequence analysis of beta tubulin gene of Trypanosoma evansi isolates from Indian dromedaries (*Camelus dromedarius*).*Indian Journal of Animal Research*. DOI:10.5958/0976-0555.2015.00152.1
10. Narnaware, S.D., **G. Nagarajan** and S.S. Dahiya (2015) . Hemato-biochemical studies in Indian camel (*Camelus dromedarius*) affected with contagious ecthyma. *Indian Journal of Veterinary Pathology*, 39(2): 168-170.
11. Mallick,P.K.,S.M.K. Thirumaran, R. Pourouchottamane, S Rajapandi, R Venkataramanan, **G. Nagarajan**, G.Murali and A.S. Rajendiran(2016). Genetic trend for growth and wool performance in a closed flock of Bharat Merino Sheep at sub temperate region of Kodai hills, Tamil Nadu. *Veterinary World*, Mar; 9(3):276-80. doi: 10.14202/vetworld.2016.276-280. Epub 2016 Mar 16.
12. Pourouchottamane, R., Rajendiran, A.S., Mallick, P.K., **Nagarajan, G.**, Murali, G., Thirumaran, SMK., Rajapandi, S. and Pankaj, P.K. (2014 Published on 23/03/2017) Deciphering Influence of Micro Climate on Productive and Reproductive Performance of Broiler Rabbits reared under Sub-Temperate Climate of Kodai Hills, Tamil Nadu. *Journal of agro meteorology* Vol 16 (Special Issue 1):186 – 192.
13. Mallick,P.K., R. Pourouchottamane, A.S. Rajendiran, S. Rajapandi, S.M.K. Thirumaran, **G. Nagarajan** and P.K.Pankaj (2014 Published on 23/03/2017). Influence of Season of Birth on Productive and Reproductive Performances of Bharat Merino Sheep in Sub-Temperate Rain-fed Conditions of Tamil Nadu. *Journal of Agro meteorology*Vol 16 (Special Issue 1): 42 - 47
14. Mallick,P.K., R. Pourouchottamane, S. Rajapandi, S.M.K. Thirumaran, R. Venkataramanan, **G.Nagarajan**, G.Murali and A.S. Rajendiran, (2016).Influence of genetic and non-genetic factors on growth traits of Bharat Merino sheep in sub temperate climate of Kodai hills, Tamil Nadu. Online published *Indian Journal of Animal Research*. DOI:10.1805/ijar.10979

dated 11/07/2016.

15. P.K. Mallick., R. Venkatraman, SMK Thirumaran, S Rajapandi, **G. Nagarajan**, G.Murali and A.S. Rajendiran (2018). Population structure and effect of inbreeding on lamb growth in closed flock of Bharat Merino sheep. (Accepted by *The Indian Journal of Small Ruminants*)

Paper/ Posters presented at International / National Conferences/ Seminars

- ✓ Presented poster entitled “Cloning and Sequencing of the Envelope Gene of Indian Camel Contagious Ecthyma Virus Isolates” in National Seminar on Frontiers in Biotechnology-2009, Organized by Bharathiar University, Coimbatore – 641 046 from July 22nd -24 th 2009.
- ✓ Presented paper on “Cloning and Sequence Analysis of Haemagglutinin gene of Indian Camelpox Virus (CMLV) isolates” in VIROCON 2010 ;XIX National Conference ,Indian Virological Society (IVS), Silver Jubilee Year March 18-20, 2010, Organized by Department of Virology Sri Venkateswara University, Tirupati- 517 502.
- ✓ Presented posters entitled “Amplification and cloning of schlafen-like protein gene of Indian Camelpoxvirus (CMLV) isolates” and “Amplification and cloning of the topoisomerase gene of pseudocowpoxvirus isolates from Indian dromedarian camel” in International symposium on “Role of Biotechnology in conserving biodiversity and livestock development for food security and poverty alleviation” & XVII Annual Convention of Indian Society of Veterinary Immunology and Biotechnology, 29-31 December 2010, Bikaner, Rajasthan.
- Presented paper on “Cloning and Sequence Analysis of interleukin- 8 encoding gene from Dromedary camel (*Camelus dromedarius*)” in International symposium on “Latest trends in Immunodiagnosis, immunopathology and immunomodulation & VI convention of society for immunology and immunopathology” held at College of veterinary and animal sciences, Bikaner, December 22-24, 2013.
- ✓ Presented paper on “Analysis of leukocyte transcriptomes of the Dromedary camel (*Camelus dromedarius*)” in international symposium on “Livestock diseases affecting livelihood options and global trade-strategies and solutions” & XXI Annual Convention of Indian Society of Veterinary Immunology and Biotechnology, at Dept. of Animal Biotechnology, Madras Veterinary College, Chennai-600 007 on 17th to 19th July 2014

Professional Affiliation

1. Life member, Indian Immunology Society
2. Life member of Indian Society of Veterinary Immunology and Biotechnology,
3. Life member, International Society of Camelid Research and Development (ISOCARD)
4. Member, Animal Ethical Committee of NRC on Camel, Bikaner from 2009 – 2012
5. Member of the committee constituted for planning and execution of interactive meeting with entrepreneurs for NRC on Camel, Bikaner, 2010
6. Member secretary of Animal Ethics committee of NRC on Camel, Bikaner 2012-2013
7. Member of Institutional Technology Management Committee of NRC on Camel, Bikaner

2013-14

8. Member, management committee ATMA training to 30 farmers of Jhunjhunu district of Rajasthan held at NRC on Camel, Bikaner, from 14th to 18th January 2013
9. Member of Institutional Management Committee of NRC on Camel, Bikaner 2014

Journal Peer Reviewer

Served as Reviewer for the manuscript submitted to the Journal of Advanced Research (JARE)-Elsevier journal-Year 2013
Served as Reviewer for the manuscript submitted to the Journal Proceedings of the National Academy of Sciences, Biological Sciences (NASB) -Year 2013 & 2014

- Served as Reviewer for the manuscript submitted to the Journal of Veterinary Medicine and Animal Health -Year 2013
- Served as Reviewer for the manuscript submitted to the Open veterinary journal -Year 2013
- Served as Reviewer for the manuscript submitted to the Indian Journal of Small Ruminants - Year 2014
- Served as Reviewer for the manuscript submitted to the Veterinary World journal -Year 2015
- Served as Reviewer for the manuscript submitted to the Virologica Sinica journal -Year 2015
- Served as Reviewer for the manuscript submitted to the Medical Sciences journal (OMICS group) -Year 2015
- Member of the Editorial board of International Journal of Veterinary Science and Research
- Member of the Editorial board of Virology & Immunology Journal
- Member of the Editorial board of Vaccines & Vaccination Open access Journal

○ **Extension Activities**

- Participated in Ambulatory clinic for the purpose of affording the free veterinary services to the ailed camels and consultancy to the camel keepers dwelling in Jaimalsar village of Bikaner district, Rajasthan, 2010.
- Organized (collaborative) short course on “Camel health and management” to the staff of Department of Animal husbandry, Gujarat at NRC on Camel ,Bikaner from 19th April to 28th April 2010.
- Participated as an expert for holding a consultation meeting on Abiotic stress management on 22nd November 2010 at National Institute of Abiotic Stress Management, Baramati.
- Participated in the meeting” Interface between scientific and people engaged in camel husbandry” held at NRC on Camel, Bikaner on 29-12-2011.
- Participated and delivered lecture on Management of viral diseases of camels on Farmer Innovators day held on 11-09-12 at NRC on Camel, Bikaner.
- Participated in Ambulatory clinic for the purpose of affording the free veterinary services to

the ailed camels and consultancy to the camel keepers dwelling in Gigasar village of Bikaner district, Rajasthan, 2012.

- Participating in Ambulatory clinic for the purpose of affording the free veterinary services to the ailed camels and consultancy to the camel keepers dwelling in Jaimalsar village of Bikaner district, Rajasthan, 2013. rganized the camps at Shakarkan, Pratapgarh district, Rajasthan on 17-18th February 2014 and at Dingri Ki Dhani, Udaipur district, Rajasthan on 19-20th February 2014 under TSP Tribal Sub Plan).

Research Interests

Molecular Virology; Immunology; New Generation vaccines

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DECLARATION

I hereby declare that the particulars furnished above are true to the best of my knowledge and belief.

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