



## BIO-DATA OF Dr.P.KUMARASAMY



### Designation and address

Professor and Head, Department of Bioinformatics & ARIS Cell,  
Madras Veterinary College, Chennai – 600 007

### Qualifications

M.V.Sc. (Animal Genetics and Breeding)  
Ph.D. (Animal Genetics and Breeding)  
Post Doctoral Fellowship (Biotechnology)

### Contact

**T** +91-44-2530 4000 Ext. 2094  
**F** +91-44-2536 5418  
**M** +91-94442 33349  
**E** kumarasamy[dot]p[at]tanuvas[dot]ac[dot]in

### Fields(s) of specialization

Majoring field : Animal Genetics and Breeding  
Specializing field : Bioinformatics, Molecular Genetics, Gene mapping, Genome Analysis, Marker Assisted Selection, Cytogenetics, Breed Characterization

### Current Project

- Biotechnology Information System (BTIS) Sponsored by Department of Biotechnology, Ministry of Science and Technology, Government of India, New Delhi - as Principal Investigator.

### Completed Projects

Project title	Role in the project	Fund outlay	Funding agency
Central Sector Scheme on Biotech Centre for Fecundity Genes	Principal Investigator	Rs.234 Lakhs	Dept. of Animal Husbandry, Dairying and Fisheries, Govt. of India
National Information System on Agricultural Net Work in India (NISAGENET),	Nodal Officer	Rs.10.0 Lakhs	IASRI-ICAR, New Delhi
Network Project on Sheep Improvement (Madras Red) at PGRIAS, Kattupakkam	Principal investigator	Rs.35.00 lakhs	ICAR, Govt. of India
All India Coordinated Project on Pigs (AICRP on Pigs) at PGRIAS, Kattupakkam	Principal investigator	Rs.35.00 lakhs	ICAR, Govt. of India
NADP Project on Popularizing model fodder seed bank at farmers' field to augment fodder production, PGRIAS, Kattupakkam	Principal investigator	Rs.19.40 lakhs	NADP Govt. of India through Govt. of TN
Technology Research Farm – Livestock Research Station, Kattupakkam	Principal investigator	Rs. 80.00 Lakhs	Govt. of Tamil Nadu
ICAR Scheme on "Modernization of Agricultural University Farms	Co-Principal investigator	Rs. 90.00 Lakhs	ICAR, Govt. of India
Homestead rabbit farming to improve the livelihood of rural women self-help groups in Tamil Nadu as a Principal Investigator	Principal investigator	Rs. 19.82 Lakhs	DBT, Govt. of India
ICAR-NBAGR Network Project Scheme "Core Laboratory" – Principal Investigator at AGB, MVC, Chennai	Principal investigator	Rs.189.00 lakhs	ICAR, Govt. of India
Andrological Laboratory for Certified Semen Services, AGB, MVC, Chennai	Principal investigator	Rs.43.50 lakhs	TNLDA, Govt. of TN
Funds for Improvement of Infrastructure in Higher Education	Co-Principal investigator	Rs. 21.00 Lakhs	DST, Govt. of India



## Recent Research Publications

1. Lavu V, Venkatesa V, Venugopal P, Lakkakula BV, Paul SF, **Peria K**, Rao SR, 2017. Clinical Relevance of Cytokines Gene Polymorphisms and Protein Levels in Gingival Cervical Fluid from Chronic Periodontitis Patients. *Iran J Immunol*. 2017 Mar;14(1):51-58. doi: IJIV14i1A5.
2. Wilfred Ruban., R.Narendra Babu., Robinson J.J. Abraham., T.M.A. Senthilkumar., **P.Kumarasamy**., V. Appa Rao and Porteen, K. 2017. Prevalence of Panton Valentine Leukocidin (pvl) Gene in Methicillin Resistant *Staphylococcus aureus* Isolated from Market Samples of Chicken Meat. *Int. J. Curr. Microbiol. App. Sci*. 6(4): 2459-2466
3. Vamsi Lavu., Vettriselvi Venkatesan., Lakakula VKS Bhaskar., Venugopal Priyanka., **P.Kumarasamy**., Solomon Franklin Durairaj Paul and Suresh Ranga Rao. 2016. Polymorphic Regions in Fc Gamma Receptor and Tumor Necrosis Factor - $\alpha$  Genes and Susceptibility to Chronic Periodontitis in a Cohort From South India. *Journal of Periodontology*, 87(8); 1-9 (doi:10.1902/jop.2016. 150743)
4. Priyadarshini Emayavaramban, Kalpana Kalaivanan, Jagan Kalivarathan, Sujatha P. Loganathan, **Kumarasamy Peria Gounder** and Anuradha Carani Venkatraman. 2016. An in silico study on the interaction between RU486, a glucocorticoid antagonist and some regulatory proteins of lipid metabolism. *Journal of Chemical and Pharmaceutical Research*, 8(2): 789-799.
5. Ganesan, R., Dhanavanthan,P., Kiruthika, C., **Kumarasamy,P.**, Murugan, M. and Jayashankar, S. 2016. Evaluation of artificial neural network model as an alternative to linear mixed model for longitudinal growth data of pigs. *International Journal of Clinical and Biological Sciences*. 1(1): 63-75.
6. Sujatha,P.L., **Kumarasamy,P.**, Preetha,S.P., Balachandran,C. and Karthick Jayaram. 2016. Nanomedicine: Fate and fortune in future to tailor a device at a billionth of a meter, about half the width of a DNA. *International Journal of General Medicine and Pharmacy (IJGMP)*. 5(3): 19-24.
7. Krishnan,G., A.Thangvel., K.Loganathasamy., C.Veerapandian., **P.Kumarasamy** and M. Karunakaran. 2016. The presence of heparin binding proteins and their impact on semen quality of Holstein Friesian bulls. *Indian Journal of Animal Sciences*, 86 (4): 392-396.
8. Krishnan,G., A.Thangvel., K.Loganathasamy., C.Veerapandian., **P.Kumarasamy** and M. Karunakaran. 2016. Sperm mitochondrial membrane potential and motility pattern in the Holstein bull semen positive for heparin binding proteins. *Indian Journal of Animal Sciences*, 86 (5): 528-534.

## Honours & Awards

- University :
  - TANUVAS MERIT SCHOLARSHIP for (M.V.Sc) postgraduate program during 1990-92.
- State :
  - Winner as Captain in CATTLE JUDGING COMPETITION held at Palghat during 1998
- National :
  - ICAR - SENIOR FELLOWSHIP 1993-94 for Ph.D. program.
  - CSIR - SENIOR RESEARCH FELLOWSHIP for Ph.D. program.
  - DBT-POSTDOCTORAL FELLOWSHIP IN BIOTECHNOLOGY AND LIFE SCIENCES during 2002-03, at CCMB, Hyderabad for one year.
  - Best Poster Presentation Award for DETECTION OF GENETIC BOTTLENECK IN BARGUR CATTLE OF TAMILNADU USING MICROSATELLITE MARKERS in X Annual Conference of ISAGB held at Madras Veterinary College, Chennai during 27-18, November, 2009.
  - Best Poster Presentation Award for NON-GENETIC FACTORS AFFECTING THE BODY WEIGHT GAIN IN MADRAS RED BREED OF SHEEP IN SEMI-INTENSIVE SYSTEM OF MANAGEMENT in XII National Symposium on Harmonizing Phenomics and Genomics for sustainable Management of Livestock for Upliftment of Rural Masses conducted during 6-7, February 2014 by SOCDAB at NBAGR, Karnal.
  - Best Paper Presentation Award for PREDICTION OF MOLECULAR INTERACTION OF CATENIN- $\beta$  AGAINST NATURALLY OCCURRING HERBAL COMPOUNDS TO IDENTIFY NEW DRUG TARGETS FOR THE TREATMENT OF LIVER CANCER USING IN- SILICO TOOLS. in Dhanapalan College of Arts and Sciences, OMR, Kelambakkam-603103, Chennai on 27th Feb 2014.
  - Best Poster Presentation Award for HIGH RESOLUTION MELTING CURVE ANALYSIS FOR RAPID MUTATION SCREENING OF FEC-B GENE IN SHEEP BREEDS OF TAMILNAD. Presented in an International Symposium on Sustainable Management of Animal Genetic Resources for Livelihood Security in Developing Countries organized by the SOCDAB and TANUVAS during February 13-14, 2015 at MVC, Chennai, Tamil Nadu.
  - Prof. R. Natarajan Award to Dr.Sindhu Kuberappa in recognition of her excellent work and its presentation titled "ANTI-HYPERGLYCEMIC ACTIVITY OF FLACURTIA MONTANA FRUIT JUICE AND INSILICO DOCKING OF ISOLATED ACTIVE COMPOUNDS - AN AMALGAMATION OF ETHNO-PHARMACOLOGY WITH MOLECULAR MODELLING" at ICAR-NDRI, Karnal during 14-16th January, 2016.



- Best Paper Presentation Award for FIRST REPORT OF METHICILLIN RESISTANT S.AUREUS HARPORING NOVEL MECA HOMOLOGUE-MECC FROM RETAIL MEAT IN CHENNAI. Wilfred Ruban, S., R.Narendra Babu., Rabinson. J.J.Abraham., T.M.A. Senthilkumar., P.Kumarasamy., K.Porreen and P.Raja. 2016. In Second Convention of Association of Meat Scientists and Technologists and National Seminar on Food: Safety Health and Environment held at Madras Veterinary College, Chennai during 25-26th February, 2016.
- International :
  - INTERNATIONAL TRAINING ON MARKER ASSISTED SELECTION under the guidance of Dr. Zihua Jiang, Associate Professor, Department of Animal Sciences, Washington State University, Pullman, USA from 13/07/2009 to 12/10/2009 sponsored by NAIP, ICAR, New Delhi.
  - As an Organizing Secretary, organized an International Symposium on Sustainable Management of Animal Genetic Resources for Livelihood Security in Developing Countries organized by the Society for Conservation of Domestic Animal Biodiversity (SOCDAB) and Tamil Nadu Veterinary and Animal Sciences University (TANUVAS) during February 13-14, 2015 at Madras Veterinary College, Chennai, Tamil Nadu, India as per the USO No. 20721/A3/2014; Rc.No. 22770/A3/2013 dated 8/12/2014 of the Registrar, TANUVAS, Chennai – 600051.

\*\*\*\*\*