

Rajiv Gandhi Institute of Veterinary Education and Research
Puducherry-605 009



Annual Report 2017-18

The Rajiv Gandhi Institute of Veterinary Education and Research (RIVER), Puducherry has since its inception in 1994, made a spectacular progress. Eighteen academic departments have been established as per the mandatory stipulations of the Veterinary Council of India (VCI) and the current faculty strength is 53 with the Dean as Head of Faculty. The faculty are from reputed colleges and institutions of the country.

In recognition of its dedicated services in the area of veterinary education and research, the University Grants Commission has awarded 2(F) and 12(B) status to the institute under the UGC Act of 1956. This recognition would enable the institute to get funds from the UGC under the Five-Year Plan and from other funding agencies. Also, the National Assessment and Accreditation Council (NAAC), an autonomous institution of the UGC awarded 'A' Grade to the institute valid for a period of five years from 10.07.2014.

Academics

Each year the college admits 60 students, of which 30 are admitted through the Centralized Admission Committee (CENTAC), Government of Puducherry. The remaining seats are allotted as follows: Veterinary Council of India candidates (9) admitted based on NEET scores, Goa(5), Nagaland(5),

NRI/NRI sponsored (9) and foreign nationals (2). There are 314 students (305 UG and 9 PG) students currently enrolled in the college.

The Institute offers Master of Veterinary Science program in eleven disciplines namely Livestock Products Technology, Veterinary & Animal Husbandry Extension, Veterinary Biochemistry, Veterinary Microbiology, Veterinary Pathology , Veterinary Surgery & Radiology , Veterinary Gynaecology & Obstetrics , Veterinary Medicine, Veterinary Public Health and Epidemiology, Veterinary Parasitology and Livestock Production and Management. Nine post-graduate theses were submitted during the period under report.

The various awards for academic excellence endowed in this institute include the Chief Secretary's Cash Award, Intas Best Student Award, Prof. B. Nandakumaran Memorial Gold Medal, Prof. Y. B. B. Gangadhara Rao Memorial Gold Medal, Prof. K. V. Subba Reddy Award, Esharani-Arabinda Gold Medal, Duvvurukamamma-Venga Reddy Memorial Award and Tmt. V. Geetha Endowment Award.

This academic year, the faculty have published 56 research articles in national/international journals, 16 popular articles, participated in about 20 workshops, presented 9 papers in seminars/workshops, delivered 5 invited lectures, written 4 books and contributed to 3 book chapters.

Research Projects

1. Centrally Sponsored Scheme for Poultry Development: A unit funded by the Department of Animal Husbandry, Dairying and Fisheries ,Govt of India is in operation .Parent stock unit of Giriraja birds is maintained and day old chicks are hatched and sold to Government of Puducherry, farmers and entrepreneurs.

2. Capacity building through skill development of farmers for sustainable dairy production for income enhancement and increased milk production in Puducherry by FSPF-NABARD. Grant 9.96 lakhs .
3. Collaborating centre of the All India Coordinated Research Project on Foot and Mouth Disease sanctioned by PDFMD, Mukteshwar (ICAR). Grant INR 3.5 lakhs.
4. DST-SERB, N-PDF Program: Characterization and comparison of the constitutive expression levels of TLRs in the peripheral blood mononuclear cells of buffalo and crossbred cattle. Grant INR19.2 lakhs.
5. Scientific breeding management of dairy cows for economic empowerment and social well-being of the rural women in Puducherry. Sponsored by DST& E, Puducherry. Grant Rs.62000/-

Symposia/Workshops/Training Programmes Organized

- The Department of Veterinary Microbiology conducted a workshop on Molecular and Seroepidemiology of Canine Parvovirus circulating in Puducherry and India and on Anti Microbial Resistance in Livestock for veterinarians of Department of Animal Husbandry and Animal Welfare, Govt. of Puducherry on 11.4.2017 and 20.1.2018 respectively.
- The Department of Animal Genetics and Breeding conducted a one day workshop on “Statistical Data Analysis using SPSS Software” on 18.05.2017 for postgraduate students.
- Department of Public Health and Epidemiology organized workshops on World Environment Day (5th June), World Zoonosis Day (6th July) and Clean Milk Production for Farmers (13th to 15th February).
- The seventh Vijaya Bank Endowment Lecture was delivered by Dr N. S. Rathore, Deputy Director General (Education), ICAR, Govt. of India on Agricultural Education in India on the 6/11/2017.

Clinical Activities

1. The Teaching Veterinary Clinical Complex (TVCC): The TVCC has ultra sound scanners, theloresectoscope, endoscopy unit, X-ray unit and well equipped air-conditioned operation theatres to perform minor and major surgeries on small animals and large animals. The total number of animals treated were 21,338 including 192 surgeries and 717 Artificial Inseminations. Total revenue earned was Rs 18, 56,820/-.
2. Veterinary Ambulatory Clinic: Treatment of animals is made available at the doorstep of the livestock owners spread over 5 villages of Puducherry region for 5 days a week. Number of animals treated was 3509.
3. Pet animal Vaccination Unit: Vaccinations administered during period under report : 3406
4. Veterinary Laboratory Diagnosis: Number of clinical samples examined was 3473.

Farm Activities

1. Centrally Sponsored Scheme on Poultry Farming: Funded by the Department of Animal Husbandry, Dairying and Fisheries, Govt of India is in progress. Revenue earned: Rs.10, 20,785.

2. The Livestock Farm Complex has the following units

- a) Cattle and Buffalo Production Unit: Six adult crossbred (Jersey) milch cows and one adult buffalo along with their calves and one adult female indigenous breed of cattle (Umblachary) with calf .Revenue earned through sale of 75771 of milk was Rs. 2,65,195/- . Sale proceeds through culling and sale of old and unproductive cattle was Rs. 30,000/- Total amount earned Rs. 2, 95, 195/- .
- b) Vermi-compost / PanchagavyaUnit
- c) Goat Production Unit

- d) Pig Production Unit
- e) Indigenous Dog Breeding Unit
- f) Fresh Water Fish Production Unit
- g) Turkey Production Unit
- h) Broiler Chicken Production Unit
- i) Japanese Quail Production Unit

Total revenue of Rs 3, 73,595 was earned from the various units during the period under the report.

3. Fodder Production Unit: A fodder field with Hybrid Napier - variety CO-5 yielded 132MT green fodder (valued @ Rs. 3, 96,000/-) and was used as fodder for the animals in the Livestock Farm Complex. Also, a Fodder Production Scheme for distribution of green fodder to the needy dairy farmers' has commenced.

Feed Quality Control and Animal/Poultry Feed Plant: The Department of Animal Nutrition has grossed revenue of Rs 6, 31,093/- by feed analysis, sale of animal/poultry feed and mineral mixture.

Value Added Products: The Department of Livestock Products Technology has generated Rs. 1.23 lakhs through sale of meat and meat products.

Inauguration of RIVER Sales Counters: For sale of poultry feed, mineral mixture, meat and meat products and other farm outputs, a sales counter was inaugurated on 4/11/2017 in Zone A and further in addition a second sales counter was inaugurated at TVCC on 19.1.2018.

Extension Activities

- 1) Farm Outreach Programme: Technical advice on the Care and Management of Livestock and Poultry to the local farmers is rendered by the Department of ILFC/LPM.
- 2) A training programme on Poultry Production to farmers was conducted from 22-01-2018 to 27-01-2018, sponsored by the Central Poultry Development Organization (CPDO, GOI), Hessarghatta, Bengaluru.
- 3) The Department of Veterinary and Animal Husbandry Extension (VAE) conducted nine week-long training programmes sponsored by NABARD between 14/9/2017-15/3/2018, training 278 participants in all.
- 4) The Dept. of VAE has also conducted three other training programmes sponsored by the Labour Department, Ponlait and CPDO from the 3-10 July, 3-10 August, 2017 and 22- 27 of January 2018, respectively for 90 participants.
- 5) The Exhibition Hall in the Department of VAE was viewed by livestock owners (400 numbers), veterinary students from other colleges (180), school children (750), trainees and visiting dignitaries.
- 6) Farm Advisory Services: About 133 prospective entrepreneurs and farmers have received advisory services from the Department of VAE.
- 7) Revenue of Rs 1, 75,500 was generated by the Department of VAE through sale of books, fee for training and through logistics for NABARD.
- 8) Two radio talks were given by our faculty in Tamil and which were broadcasted on 24/11/2017 and 22/12/2017 for the benefit of farmers.
- 9) The institute participated in the FARM FEST - 2018 conducted by the Government of Puducherry by putting up a stall. An amount of Rs 66,975/ was raised from the sales of chicks, adult birds, chevon, poultry products, publications, mineral mixture and feed.

Herbal Garden: The herbal garden in the Institute is maintained by the Department of Veterinary Anatomy and Histology where medicinal plants and herbs are raised. A revenue of Rs.3,760/- by sale of saplings was raised.

Library: The library has a collection of 5320 books and has collected Rs. 12,699 from overdue charges.

Computer Centre: A centralized computer facility is present and which also maintains the college website.

Students' Cooperative Stores and Canteen: The Students' Cooperative store is being maintained to provide students with stationery and household items at a reduced cost. The canteen provides food at subsidized rates.

Hostel Facilities: The hostel currently accommodates 172 (90 ladies and 82 men) students in two complexes with separate mess.

International Student Externships

1. Twelve students from the University Malaysia Kelantan, Malaysia underwent an externship program at the institute between 16th July-9th of August, 2017.
2. Ms.Gowri Menon, B.Lavanya and Abishek Madan of final year underwent an externship programme at the College of Veterinary Medicine, Kansas State University (KSU) between 25 Sept-20 Oct, 2017.Two students from the KSU completed their externship at RIVER between 31stJuly- 14th August,2017.
3. A total of 95 students in two batches from the Hajee Mohammed Danesh Science and Technology University, Bangladesh attended a two-week long externship programme between the 9-23 March and 26- Mar- 10 April,2018

All India Study Tour

All India Study Tour for final students was conducted between 7-21 April, 2017 accompanied by two faculty.

Implementation of Career Advancement Scheme

Under the Career Advancement Scheme, fifteen faculties were promoted from the post of Associate Professor to Professor with retrospective effect in the year under report.

RIVER Achievements

1. Dr P. X. Antony was member of FAO funded ICMR-ICAR project meet entitled, “To build capacity for integrated surveillance of antimicrobial resistance (AMR) in pathogen/commensals in food producing animals, food of animal origin and their environment and foodborne pathogens in humans” on 15/3/2018.
2. Dr. U.K.Pal attended the Research Advisory Committee of National Research Centre on Meat, Hyderabad on 8.08.2017. He was Resource Person for IRC Project, “Carcass characteristics and physicochemical properties of Mithun meat” in National Research Center on Mithun, Nagaland 13-15 Nov 2017.
3. Dr.R.Srinivasan, Assistant Librarian obtained his PhD in Library Sciences from Pondicherry University.
4. The Department of Veterinary Anatomy and Histology won First Prize for the Best Herbal Garden under the Govt. institutions category for the year 2018 in the FarmFest.
5. Dr V. Bhanu Rekha received the Best Paper in the National Seminar on Food Adequacy and Climate Change: Strategies for Sustainable Food Production organized by KVASU, First Best Oral Presentation in XV Biennial Conference and National Symposium by Indian Association of

- Women Veterinarians, P. V. Narasimha Rao Telangana Veterinary University, Hyderabad and the IAAVR Merit Award in the 18th Veterinary Congress and National Symposium by Indian Association for the Advancement of Veterinary Research, SVVUT.
6. Dr V. Ajay Kumar won the Best Paper Award for the poster presentation on “Food habits of nomadic tribals settlers in Puducherry, India” from the Association of Meat Scientists and Technologists, KVASU and the Second Best Paper presentation at the one day national seminar organized by RIVER on the occasion of World Zoonosis Day.
 7. Dr.S.Kantharaj was awarded Gold Medal for having secured the highest grade point average in Ph.D degree programme in Veterinary Gynaecology and Obstetrics by the Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar.
 8. Dr. M. Rajalakshmi received the Second Best Paper Award in 15th Biennial National Conference and National Symposium on “Role of women veterinarians in enhancement of livestock productivity health and welfare”, at PV. Narasimharao Telengana Veterinary University, Hyderabad on 21-22 Nov, 2017.
 9. Dr K. Vijayalakshmy won the Best Poster Award for ‘Differential expression of fertility associated genes in high and sub-fertile buffalo bulls spermatozoa and their transmission to embryos generated through *in vitro* fertilisation’ at the symposium on “Reaching the Unreached through Science & Technology” conducted by Indian Science Congress Association – Pondicherry chapter on 8/3/2018.
 10. Best Paper (Oral) Presentation: Lakshmi, R., Jayavardhanan, KK, Thanislass, J. Comparison of innate immunity related genes expression in sub-clinical and clinical cases of bovine mastitis. National Symposium on "Innovative and emerging biochemical and biotechnological tools to augment animal health and production" held on 2-3 June, 2017, Veterinary College, Hebbal, Bengaluru.

11. Dr. D. Venkata Sivaji, received the third prize for the Best Innovation conducted by Entrepreneurship Development Cell, Puducherry.
12. Best Paper(Poster) Presentation Kiruthiga, R., Thanislass, J., Antony, PX., Lydia DC., Uma Maheswari, D., Venkatesa Perumal, S. Comparative study of SSCP pattern of V3 and V4-V5 region of 16s rRNA of goat rumen metagenomic DNA. National Symposium on "Innovative and emerging biochemical and biotechnological tools to augment animal health and production" held on 2-3 June 2017, Veterinary College, Hebbal, Bengaluru.
13. Anuradha Pai, Aayushi. P. Shetye, Dr.Ameena, B., Denise Almeida, Dr.Chikkala Premsairam., Bhargavi Chidambaram., Sathya Priya Parthiban, Karthiga Kesaven and Brindha Sundar attended TANUVAS 9th Clinical Case Conference on Farm and Companion Animal Practice for veterinary students at TANUVAS, Chennai between 3-4th, August 2017 (No. of papers presented: 25) and were awarded prizes in their respective categories. Other student participants were Anugraha Mercy Easaw, Seshuram Posina, Habbu Aishwarya Sunder, Sri Nithya Dasari, Kaviselvi S., Hariharan Ram., Poonguzhali Ramachandran., Sasha L. Pinto, Sivasankary Ragavan, David S., Arrivukkarasi N, Akshaya Murali, Charmaine Sara Pinto, Kavibharathy Sivakozhundan, Dr. Subash Bose and Dr Subramaniam B.