

**ICAR-Central Avian Research Institute
Izatnagar-243122**

List of Completed projects 2019-20 to 2025-26

Institute Projects

Sl.	Project Title	PI
1.	Augmenting gut health and welfare of poultry through dietary approaches	Dr. A.B. Mandal
2.	Studies on interaction of certain dietary micronutrients in poultry	Dr.Chandra Deo
3.	Exploring natural polyphenol as alternative to antibiotic growth promoters (AGP's) in poultry production	Dr. (Mrs) Divya
4.	Shelf-life extension of selected traditional meat products prepared from spent chicken using natural antioxidant and antimicrobial compounds	Dr.A shim K. Biswas
5.	Feed-cost reduction through utilization of alternate feed resources in poultry	Dr Pramod K. Tyagi
6.	Improvement in Guinea fowl-pearl variety through genetic and physiological interventions	Dr Simmi Tomar
7.	Development of enzyme based biomarkers for rapid differentiation of fresh and frozen thawed meat of diversified poultry species.	Dr.Ashim K. Biswas (till 22.11.2019) Dr.C.K. Beura (23.11.2019 to 05.06.2020) Dr. A.S. Yadav (w.e.f. 06.06.2020)
8.	Assessment of Impact of Training Programmes and Germplasm on Poultry Farmers	Dr. M.P. Sagar
9.	Maintenance and Evaluation of native chicken and their utilization for family poultry production	Dr Chandrahas
10.	Improvement of Rhode Island Red for development of strains for rural poultry production	Dr. S.K. Bhanja
11.	Genetic improvement of broiler (CARI UTTAM) and Layer (CARI SUNEHERI/CARI BROWN) type Japanese Quail	Dr. Raj Narayan
12.	Technology development for green energy and manure production from poultry wastes and its dissemination	Dr. Chandrahas
13.	Ameliorating mycotoxicosis in broiler chickens through dietary herbal supplementation.	Dr. Avishek Biswas
14.	Conservation of elite layer stock and their comparison with RIR and indigenous chicken vis-à-vis analysis of genes linked with productivity traits	Dr Sanjeev Kumar (till 05.01.2023) Dr S. K. Bhanja (06.01.2023-14.06.2023)
15.	Achieving reproductive rejuvenation in spent hens of commercial and desi varieties through convergence of physiological and nutritional manipulations	Dr. M. Sirajudeen
16.	Optimization the welfare of broiler chickens with special emphasis on transport	Dr. Jaydip Rokade
17.	Studies on certain dietary antioxidants and their interaction in poultry	Dr.Chandra Deo

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18.	Genetic improvement and genomics in pearl variety of Guinea fowl	Dr(Mrs.) Simmi Tomar
19.	Exploring herbs, essentials oils, plant and plants natural compounds for development of natural growth promoter	Dr.(Mrs) Divya
20.	Identification and evaluation of locally available unconventional feed resources for poultry production and nutrigenomic studies in NEH region	Dr. Avishek Biswas (till 27.10.2023) Dr Chandra Deo (w.e.f. 28.10.2023)
21.	Applications of safe alternatives to antibiotics as prophylactic agents in diversified poultry species to reduce AMR burden of Escherichia Coli	Dr. S. K. Bhanja (till 14.06.2023) Dr. Gautham Kolluri (w.e.f. 15.06.2023)
22.	Establishing feed efficient turkey (<i>Meleagaris gallopavo</i>) line using metabolism related candidate gene polymorphism and gut microbiome information	Dr. S.K. Bhanja (till 14.06.2023) Dr(Mrs.) Simmi Tomar (w.e.f. 15.06.2023)
23.	Socio-economic empowerment of tribal population in selected districts of Uttar Pradesh and Uttarakhand through intervention of poultry technologies	Dr Sanjeev Kumar (till 05.01.2023) Dr S. K. Bhanja (06.01.2023-14.06.2023) Dr Divya (w.e.f. 15.06.2023)
24.	Genetic improvement and genomics in pearl variety of Guinea fowl (completed)	Dr. Simmi Tomar
25.	Establishing feed efficient turkey (<i>Meleagaris gallopavo</i>) line using metabolism related candidate gene polymorphism and gut microbiome information (merged)	Dr. Simmi Tomar
26.	Identification and evaluation of locally available unconventional feed resources for poultry production and nutrigenomic studies in NEH region (completed)	Dr Chandra Deo
27.	Applications of safe alternatives to antibiotics as prophylactic agents in diversified poultry species to reduce AMR burden of Escherichia Coli (completed)	Dr. Gautham Kolluri
28.	Achieving reproductive rejuvenation in spent hens of commercial and desi varieties through convergence of physiological and nutritional manipulations.	Dr. M. Sirajudeen
29.	Socio-economic empowerment of tribal population in selected districts of Uttar Pradesh and Uttarakhand through intervention of poultry technologies.	Dr Divya
30.	Genetic improvement of three distinguished plumage and egg colours varieties of broiler and layer type domesticated Japanese Quails.	Dr Raj Narayan

Externally Funded Projects

Sl.	Project Title	PI/CCPI
1.	Enhancing gut health and immunological functions in broilers through convergence of biotechnological and nutritional interventions	Dr. Gopi M.

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2.	Detection and control bacterial pathogens in poultry by developing chemical genomic strategies to combat multiple antibiotic resistance	Dr A.S. Yadav
3.	Genome editing of primordial germ cells (PGCs) using CRISPR/Cas9 system and production of myostatin knock out chicken	Dr Renu Singh
4.	Improving rural livelihood security of tribal and resource constrained farmers of North Bihar through low cost technology of Animal Husbandry and allied sector	Dr Sanjeev Kumar
5.	Enhancing the reproductive and productive efficiencies of chicken and alternate poultry species using artificial insemination	Dr Jag Mohan
6.	Model project and demonstration unit for backyard poultry, livestock, vermi-farming and moringa integration	Dr Raj Narayan
7.	Identification of key molecular players specially lncRNAs involved in response to NDV challenge in indigenous and exotic chicken breeds using RNA-seq analysis	Dr Gautham Kolluri
8.	Enhancing the reproductive and productive efficiencies of chicken and alternate poultry species using artificial insemination	Dr Jagmohan
9.	Identification of key molecular players specially lncRNAs involved in response to NDV challenge in indigenous and exotic chicken breeds using RNA-seq analysis	Dr Gautham Kolluri
10.	Model project and demonstration unit for backyard poultry, livestock, vermi-farming and moringa integration	Dr Raj Narayan
11.	Development of gene edited chicken with enhanced resilience to avian influenza (H5N1)	Dr Gautham Kolluri
12.	Production of broiler livestock and poultry using CRISPR technology.	Dr Simmi Tomar

Contract Research Projects

Sl.	Project Title	PI
1.	Effects of dietary supplementation of multi-strain probiotic (<i>Bacillus coagulans</i> Unique IS2 + <i>Bacillus subtilis</i> UBBS-14 + <i>Saccharomyces boulardii</i> Unique-28) on production performance, immune response, gut health and carcass traits of broiler chickens (Sponsored by M/s Unique Biotech Pvt. Ltd, Hyderabad, Telangana).	Dr Avishek Biswas
2.	Investigating the pathogenic and immunogenic potentials of selected vaccine isolates of Fowl Adenovirus-4 (Fadv-4) in chicken (Sponsored by M/s Srikara Biologicals Private Limited, Hyderabad).	Dr Gautham Kolluri

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3.	Assessment of biomass as a novel feed resource and its economic feasibility in broiler chicken (Sponsored by M/s Indian Oil Corporation Ltd, Faridabad (Haryana)).	Dr Jaydip Rokade
4.	Effects of “Aquaritin all in one supplement” in water on production performance, immune response other parameters in broiler and layer chickens (Sponsored by M/s J S Aquaritin Global Private Limited, Gurgaon)	Dr Avishek Biswas
5.	Field assessment of biomass form as a novel feed resource in commercial broiler chickens (Sponsored by M/s Indian Oil Corporation Ltd, Faridabad (Haryana))	Dr Jaydip Rokade