

JOURNAL PUBLICATIONS

- Published a paper titled “The effect of herbal concoction on the growth, meat quality and immune response of broilers” on “International Journal of Applied Engineering Research” [ISSN 973 – 4562 volume 10, number 13, 2015]
- Published a paper titled “A Study on the Concept of Reutilization of litter in Broiler Poultry Farms” on “International Journal of Engineering Research and Advanced Sciences” [ISSN 2091 – 2730 Volume 6 Issue 1, 2018]
- Published a paper titled “Methodologies for re-use of poultry litter in broiler poultry farms – A Review” on “ International Journal of Civil Engineering and Technology” [ISSN: 0976-6316 Volume 9 Issue 4, 2018]

ACHIEVEMENTS

- Anna University rank holder at the department of Biotechnology (B.Tech.,) in the 2015-2016 batch.
- Second runner up for Prof. V.N.Srinivasan Award at iQuest – 15 conducted by the Innovative Project Cell at Rajalakshmi Engineering College, for the project titled ‘Herbie’

PROJECTS

I. **Project Title:** A Study on the Concept of Reutilization of litter in Broiler Poultry Farms

Location: Vels Institute of Science Technology and Advanced Studies, Chennai, Tamilnadu

Description: The rapid growth in poultry sector makes it inevitable to address the environmental issues that arise due to it. The inefficient management of wastes from the poultry farms poses serious threat to our environment. Poultry litter is the major solid waste generated from a farm. On reusing litter the solid waste generated from the poultry farms could be minimized. Owing to the inefficiency in the waste disposal methods, the concept of reducing the waste from its point of generation by reusing it is alluring. This study opens a gateway for poultry litter management in India thereby lowering the stress of waste disposal on our environment.

II. **Project Title:** Cloning of pre-MIR 137 in *Rattus norvegicus* to study the regulation of NR2A receptor in schizophrenia

Location: Rajiv Gandhi Centre for Biotechnology, Trivandrum, Kerala

Description: Schizophrenia is a severely challenging and chronic mental disorder, the etiology of which remains a mystery. Regulation of the transcription and translation mechanisms by non-coding RNAs is one of the profound epigenetic mechanisms influencing schizophrenia. The microRNA, miR-137 is quite well known for regulating the phenotype of brain and the receptors involved in signal transduction in the nervous system. Our objective is to clone MIR137 gene into pGEM-T Easy vector which can be used for different assays that will in-turn help in uncovering the mechanism of the interaction of miR-137 with its targets in schizophrenia.

III. Project Title : The effect of herbal concoction on the growth, meat quality and immune response of broilers

Location : Rajalakshmi Engineering College, Chennai

Description : Broiler chickens are one of the cheapest sources of protein that is consumed widely by people all around the world. These broiler chicks due to less resistance are easily susceptible to diseases such as Infectious Bronchitis and Newcastle disease causing great economic loss to farmers. Moreover, consuming broilers that are reared using, artificial growth promoters and antibiotics leads to the development of antimicrobial resistant bacteria in humans, breast cancer in women and abnormal growth in children. This newly devised method of poultry farming involves supplementing the chicks with a herbal concoction through drinking water instead of the vaccines, antibiotics and growth promoters that are used regularly.

INTERNATIONAL CONFERENCES

- Attended 'International Conference on Advances in Biotechnology, Civil and Mechanical Science' at Selvam College of Technology, Namakkal and presented a paper on "The effect of herbal concoction on the growth, meat quality and immune response of broilers".
- Participated in a National Level Technical Symposium on Recent Trends in Biotechnology held at Sree Sastha Institute of Engineering and Technology, Chennai.