

Dr. Bhanu Telugu
Department of Animal Sciences
Office: 2121 Animal Sciences Center
Lab: Bldg 230, ABBL, USDA
Email: btelugu@umd.edu

Course Title: Advanced Animal Biotechnology: Perspectives from Current Literature

I believe that sustainability should be an integral part of the Animal agriculture. Sustainable practices in animal agriculture will not only serve to improve the environment but also will have an impact on animal and human health.

In the “**Advanced Animal Biotechnology: Perspectives from Current Literature**” class offered next semester, four classes will be dedicated towards the use of transgenics in large animal species for agricultural applications. The students are then requested to submit a term grant proposal, on the uses of genetic engineering applications towards reducing environmental impact and/or sustainable agriculture. The title of the proposed exercise will be: “***Applications of Animal Biotechnology in Sustainable Agriculture***”. This term proposal will constitute 40% of the total grade for the class. Additionally, the students are required to discuss their research proposals formally in the class.

In a second class, “**Mammalian Reproductive Physiology**” that is going to be offered every fall semester; the students will be exposed to the environmental impacts including the endocrine disruptors and other chemicals that are a standard practice in agriculture on reproductive performance and developmental defects.