

DISTINGUISHED LECTURE

BY

DR. RENUKARADHYA J. GOURAPURA

The Ohio State University

TITLE: “Innovative mucosal vaccine delivery methods to augment cross-protective immunity: pig a biomedical model

Dr. Renukaradhya, Professor, Department of Veterinary Preventive Medicine, Food Animal Health Research Program, The Ohio State University, U.S.A.



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VENUE: NIAB AUDITORIUM

Dr. Gourapura obtained his basic education in veterinary sciences (BVSc & MVSc) from University of Agricultural Sciences, Bangalore. He did his PhD from Indian Institute of Science (IISc), Bangalore, specialising in veterinary immunology. Following PhD, he joined as Post-doctoral fellow at Indiana University School of Medicine, Indianapolis, USA, specializing in viral immunology. Since 2008, he is working at Department of Veterinary Preventive Medicine as Assistant professor followed by Associate Professor and now Professor.

Research interests

His broad areas of research include understanding the host pathogen interactions, microbial pathogenesis, developing pig model to reveal the influence of human microbiome on vaccines and diseases, and understanding immune evasion mechanisms in food animals infected with viral and bacterial pathogens. Other focus of research is on developing large animal models for biomedical, preclinical research in the areas of both infectious and non-infectious diseases to improve human health.

His laboratory research focus is on mucosal immunology in food animals infected with infectious and zoonotic diseases. His group is trying to develop innovative biodegradable and biocompatible polymer based nanoparticle vaccine delivery platforms to administer and target vaccine antigens efficiently to immune cells at mucosal sites. Particularly, focusing on improving the efficacy of inactivated whole pathogen and subunit vaccine antigens of influenza virus and porcine reproductive and respiratory syndrome virus delivered intranasal in pigs, and Salmonella vaccines delivered orally through drinking water in poultry. His group is also evaluating immune modulators, bacterial-based and synthetic adjuvants, different polymers based vaccine carriers targeting toll-like receptors in mucosal immune inductive sites of food animals and poultry.