

**USDA, ARS, BELTSVILLE AGRICULTURAL RESEARCH CENTER, ANIMAL
PARASITIC DISEASES LABORATORY**

DR. HYUN LILLEHOJ

**“DEVELOPMENT OF SAFE AND DRUG-FREE CONTROL STRATEGIES FOR
POULTRY MUCOSAL PATHOGENS”**

Animals account for 51% of the monetary value of U.S. agricultural products, exceeding \$100 billion per year according to ERS analysis. Poultry meat production accounts for a significant proportion of agricultural meat production and is estimated to exceed 35 billion pounds by 2008. As such, there are increasing concerns over the economic losses sustained by the poultry industry due to diseases. Avian coccidiosis, the most important parasitic disease of poultry, costs the industry greater than \$3 billion in annual losses worldwide. Dr. Hyun Lillehoj developed and transferred novel technologies to control avian coccidiosis using hyperimmune IgY antibodies and *in ovo* DNA vaccines. These technologies advanced the development of drug-free control strategies against coccidiosis. Both Trust Fund Cooperative Agreements (TFCA) and Cooperative Research and Development Agreements (CRADA) were used to transfer this technology to commercial partners. One of the major outcomes of the technology transfer was the development of commercial product Supracox^R for the control of avian coccidiosis.