**Emerging Agricultural Technologies**

**Animal Technology**

• Genetic Engineering in Animal Agriculture and Aquaculture

• Reproduction and Embryo Transfer

• Transgenic Poultry

• Transgenic Fish

• Transgenic Swine

• Transgenic Ruminants

• Animal Health

• Steroid-like Growth Promotants

**Plant Technology**

• Genetic Engineering in Crop Agriculture

• Genetic Technology for Resistance to Insect Pests

• Genetic Modification for Weed Control

• Genetic Modification for Disease Resistance

• Biocontrol for Weeds

• Pathogens for Insect Control

• Use of Parasites and Predators to Control Insect and Mite Pests in Agriculture

• Microbial Biocontrol of Plant Diseases

• Temperature and Water Stress

• Evolution of Resistance by Weeds and Pests to Herbicides and Pesticides

• Genetic Exchange between Genetically Engineered Crops and Close Relatives

**Emerging Computer and Systems Technology**

• Knowledge-based Systems for Agriculture

• Use of Expert Systems in Animal Agriculture

• Sensor Technology

• Robotics and Intelligent Machines

• Nanotechnology

**Food Safety and Quality**

• Biotechnology in Food Processing

• Assessing the Safety of Genetically Engineered Foods and Feeds

**Bioenergy**

• Algae Fuels

* Biomass Fuels