

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