
History and concepts of food quality and safety in organic food production and processing;
Nutritional quality of foods;
Quality assurance, inspection and certification of organic foods;
A new food quality concept based on life processes;
Food consumers and organic agriculture.

Part 2: Organic livestock foods.

Effects of organic and conventional feeding regimes and husbandry methods on the quality of milk and dairy products;
Effects of organic husbandry methods and feeding regimes on poultry quality;
Effect of organic, husbandry and feeding regimes on pork quality;
Organic livestock husbandry methods and the microbiological safety of ruminant;
Reducing antibiotic use for mastitis treatment in organic dairy production systems;
Reducing anthelmintic use for the control of internal parasites in organic livestock systems; Alternative therapies to reduce enteric bacterial infections and improve the microbiological safety of pig and poultry production systems.

Part 3: Organic crop foods

Dietary exposure to pesticides from organic and conventional food production;
Levels of potential health impacts of nutritionally relevant phytochemicals in organic and conventional food production systems;
Improving the quality and shelf-life of fruit from organic production systems;
Strategies to reduce mycotoxins and fungal alkaloid contamination in organic and conventional production systems;
Reducing copper-based fungicide use in organic crop production systems;
Pre-harvest strategies to ensure the microbiological safety of fruit and vegetables from manure-based production systems.

Part 4: The organic food chain: processing, trading and quality assurance

Post-harvest strategies to reduce enteric bacteria contamination of vegetable, nut and fruit products;
Fair trade: a basis for adequate producers’ incomes, farm reinvestment and quality and safety focused production;
Development of quality assurance protocols to prevent GM-contamination of organic crops;
Integration of quality parameters into food safety focused HACCP systems.

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