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Nota di contenuto	From the Contents: Part I Animal Breeding and Genetics for Food.- Animal Breeding and Genetics, Introduction -- Animal Breeding Methods and Sustainability -- Animal Breeding, Foundations of Animal Breeding, Long-Term Challenges -- Animal Breeding, Modeling in -- Animal Genetic in Environment Interaction -- Part II Crop Science and Technology -- Abiotic Stress Tolerant Crops: Genes, Pathways and Bottlenecks -- Biomass Crops for Biofuels and Bio-based Products -- Biotechnology and Nutritional Improvement of Crops -- Part III Ocean Farming and Sustainable Aquaculture Science and Technology -- Aquaculture and Renewable Energy Systems, Integration of --

Aquaculture, Ecological -- Aquaculture, Integrated Multi-trophic (IMTA) -- Part IV Transgenic Livestock for Food Production -- Avian Specific Transgenesis -- Disease-Resistant Transgenic Animals -- Livestock Somatic Cell Nuclear Transfer -- Nuclear Transfer to Produce Transgenic Mammals.

Sommario/riassunto

Population growth in the coming decades will put severe pressure on human food, animal feed, and fiber production from both land and ocean ecosystems. Environmental sustainability and social justice are increasingly important elements in debates on how to ensure adequate food for a growing global population. Gathering approximately 90 peer-reviewed entries from the Encyclopedia of Sustainability Science and Technology, Sustainable Food Production provides comprehensive coverage of this vital area of current research. Sections on animal breeding and genetics for food, crop science and technology, ocean farming and sustainable aquaculture science and technology, and transgenic livestock for food discuss state-of-the-art scientific advances, and place them in their proper scientific, environmental, ethical, socio-economic, and political contexts.