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Nota di contenuto	1-The potential of resistant starch type 1 for nutritional food security -- 2-Evaluation of bioaccumulation of heavy metals in some fish species from the rice farms' channels of Pouss (Far-North, Cameroon) -- 3-Evaluation of the levels of nine heavy metals in five crops using AAS and XRF -- 4-The role of food in the health management of geriatrics -- 5-Genetically modified crops: perspectives and safety concerns in Africa -- 6-Indigenous leafy vegetables and health management in South Western Nigeria: A review based on Osun State -- 7-Combined application of subsurface drainage and fertilization, a method to reduce the effects of iron and sulfide toxicities in irrigated rice fields in Burkina Faso -- 8-Is food medicine? Lessons from a household survey on plants used to manage anaemia in Kilifi County, Kenya -- 9-Plantain bioactives: An underutilised food resource in Africa -- 10-New perspectives in the utilization of African leafy vegetables -- 11-The uptake of farming technological innovationsfor food security in

Kejom Ketinguh of the North West region of Cameroon. A contribution to anthropology of food production -- 12-Food and nutrition insecurity in Africa: The primary drivers and sustainable strategies to improve the current status -- 13-Marker-assisted selection (MAS): Untapped potential for enhancing food and nutrition securities in Sub Saharan Africa -- 14-Harnessing the opportunities for sustainable small-scale rural farming towards attaining food security in Southern Africa -- 15-Improving food security in Africa through sustainable utilization of selected climate smart emerging crops: A case of Botswana and Namibia -- 16-Essentials of nutraceuticals and probiotics -- 17-Phenotypic characterisation of nine accessions of okra -- 18-Long-term restorative farming effects on soil biological properties for carbon stock, soil quality and yield in a Nigerian northern guinea savanna alfisols -- 19-Climate change: impact on food security for health management and its adaptation strategies for sustainability among households in Southeast, Nigeria -- 20-Climate change, growth in agriculture value added, food availability and economic growth nexus in the Gambia: A Granger causality and ARDL modeling approach -- 21-Adoption of genomics and breeding strategies to improve goat productivity in Southern Africa.

Sommario/riassunto

Sustainable food production is a global challenge with respect to climate change and an ever-increasing world population. Conventional crop production using agrochemicals presents human health and environmental challenges. Rising concerns about environmental sustainability have increased attention toward improved, efficient, and sustainable means of crop production. Various strategies are employed in enhancing crop production to adapt and mitigate climate change and ensure food security. The future of food production relies on improving productivity without compromising long-term productivity and environmental sustainability. Feeding the ever-increasing world population would require concerted efforts by all stakeholders to combat the impact of climate change and numerous ecological challenges facing food production. Hence, innovative technologies and methods are indispensable in mitigating the effects on food security. The book looks at the current challenges and solutions, from an African perspective, regarding food safety and health management, food security and nutrition, climate change and sustainable food production, and forest resources and food security. The target audience is scientists, graduate students, researchers, academicians, and professionals in food production for sustainable development and ecosystem management. This book will also be helpful to policymakers and specialists in framing future feasible agro-ecosystem policies.
