

TABLE OF CONTENTS

Preface <i>by Giuseppe Berton</i>	IX
-----------------------------------	----

AGRICULTURE AND HUMAN FEEDING

LAURA ROSSI - MARINA CARCEA	
Food, nutrition and malnutrition: a global vision	3
PAOLA DEL GIACOMO - ENRICO MARIA TRECARICHI - PIER SANDRO COCCONCELLI - ROBERTO CAUDA	
Safety of water and food: a key factor for development	27
ANDREA SONNINO	
Meeting the growing global demand for food and nutrition: current situation and outlook	55
MASSIMO IANNETTA - LAURA MARIA PADOVANI	
The Agro-food industry, 'from fork to farm'	73

AGRICULTURE: GENERAL ASPECTS

ALFONSO PASCALE	
The territory and the interaction between agricultural and environmental, socio-economical and cultural changes	97
MARCO MARZANO DE MARINIS - LUISA VOLPE	
Family farming and the sustainable use of natural resources around the world	117
MARIA GEMMA GRILLOTTI DI GIACOMO	
The role of women into modern agriculture	129
MARCO PELLIZZONI - MARCO TREVISAN	
The impact of agriculture on natural resources (water, soil and biota)	161

CATELLO MASULLO	
Water: availability and rational use (agricultural, industrial, civil)	191
NICOLA COLONNA - LUIGI ROSSI	
Agriculture and energy: a tight nexus	203
MICHELE PISANTE	
Multifunctional Agriculture	229
ROBERTO PINTON	
Organic agriculture	253
GIUSEPPE BERTONI - ANDREA MINARDI	
Agriculture and animals: different roles and ethical considerations	275
 AGRICULTURE AND SUSTAINABILITY IN DEVELOPED AND DEVELOPING COUNTRIES	
LUIGI ROSSI	
Innovation and sustainability of the agro-food system	307
MATTEO BUSCONI - MARIANGELA MARUDELLI - ADRIANO MAROCCO	
Genomics and biotechnology for plant breeding	325
VINCENZO TABAGLIO - CRISTINA GANIMEDE - GIUSEPPE BERTONI	
The soil and field crop production	347
OSVALDO FAILLA	
Fruit tree production	375
MATTEO ANACLERIO - MARCO PELLIZZONI - MARCO TREVISAN	
Protection of plants and agricultural products	393
G. MATTEO CROVETTO	
Poultry and pig production systems in developing countries	437
MIRCO CORAZZIN - ANNA ZULIANI - STEFANO BOVOLENTA - EDI PIASENTIER	
Ruminant production	457

TABLE OF CONTENTS	VII
SERGIO GATTI	
Processing and preservation of plant and animal products	481
GIOVANNI GUASTELLA - PAOLO SCKOKAI	
The role of agricultural cooperatives and producers' organizations in improving food and nutrition security	501
Conclusions <i>by Giuseppe Bertoni</i>	523
Authors	541