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| Nota di contenuto | Cover; About the Editors; Contents; List of Contributors; List of Abbreviations; List of Symbols; Preface; Introduction; Part I: Interaction of Anthropogenic Pressure on the Environment: Global Warming and Biological Stability; Chapter 1: Anthro-Adaptability of Plants as a Basis Component of a New Wave of the "Green Revolution"; Chapter 2: Optimization of the Structurally Functional Changes in the Cultured Phytocoenoses in the Areas with Extreme Edaphic-Climatic Conditions; Part II: Directions of Selection and Evaluation Methods of Breeding of Galega Eastern and Red Clover in Belarus Chapter 3: Source Material for Breeding Varieties of Red Clover for Different Ways to Use Chapter 4: Results of Electrophoretic Analysis of Seed Storage Proteins of Variety Samples of Red Clover and Galega Orientalis; Chapter 5: Use of Genotypic Variability of Galega Orientalis for Identification of Varieties; Part III: Problems of Grain Crops Growing on Acid Soils of the European North; Chapter 6: Problems of Grain Crops Growing on Acid Soils of the European North; Chapter 7: Dynamics of Acidity and the Aluminum Content in Podzolic Soil |

Chapter 8: Role of the Paternal and Maternal Components of Crossing on Resistance of Oats Hybrids to Aluminum Ions
Chapter 9: Experience of Studying of Genetic Control of Barley Aluminum Resistance; Chapter 10: Action of Some Genetic Systems of Plants of Oats and Barley Differing on Resistance to Environmental Abiotic Stressors; Part IV: Scientifically Substantiated Soil and Climatological Regions for the Industrial Cultivation of Crops; Chapter 11: Scientifically Substantiated Soil and Climatological Regions for the Industrial Cultivation of Fruit Crops in Ukraine
Chapter 12: Sugar Beet Productivity Formation Depending on Foliar Application of Microelements
Chapter 13: Market Development Trends of Crop Produce in Ukraine; Chapter 14: Effect of Nutrient Media Containing Natural and Chemically Modified Starches on Haploid Production in Spring Barley Anther Culture in vitro; Part V: Bio-Organic Farming; Chapter 15: Efficient Strain of Slowgrowing Nodulating Bacteria *Bradyrhizobium japonicum* 84KL as a Basis of Biofertilizer Soyarhiz; Chapter 16: Selection of Competitive and Efficient Strains of *Rhizobium galegae*
Chapter 17: Degradation of Triethylamine by Strain *Rhodococcus qingshengii* B-823D
Chapter 18: Strawberry Pollen Breeding for Cold Resistance; Part VI: Innovative Technologies of Cultivation of Agricultural Crops; Chapter 19: Application of Natural Springs of Mountain Zone of North Caucasus for Increase of Selenium Content in Garlic; Chapter 20: Stimulators of Increase of Lucerne Seeds Germination; Chapter 21: Oil Flax in the Foothills of Northern Caucasus; Chapter 22: Improvement of Cultivation and Harvesting of *Festulolium* Seed in the Forest-Steppe of Central Chernozem Zone of Russia
Chapter 23: Elements Cultivation Technology Optimization of *Melilotus albus* Medik. in the Middle Volga Region

Sommario/riassunto

This book discusses theoretical approaches to the taxonomy of biological systems and theory and mathematical approaches to the problem of plant diversity, cultivation, and the environment. Particular attention is given to theoretical and practical problems of soil and the environmental sustainability of phytocoenosis, with the goal to enhance the productivity of agricultural crops: cereals, legumes, vegetables, and fruit. Providing valuable information on the distribution of chemical elements in the soil-plant system and on the migration of chemical elements in the food chain, this book looks a
