

<<中国至2050年农业科技发展路线图>>

图书基本信息

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内容概要

本书的主要目的是明确至2050年全球和我国农业发展面临的挑战与机遇,预测我国未来对农业科技的重大需求,提出至2050年我国农业科技领域发展战略目标、分阶段目标,提出各阶段农业科技发展的主要方向及可突破的重大科学技术问题,形成未来农业科技发展的总体路线图,并提出为实现以上目标所需要的体制、资源、人才等方面的政策建议。

报告中的研究内容主要包括:至2050年农业发展展望及对科技需求、中国农业科技总体和分阶段目标及总体路线图、植物种质资源与现代育种科技发展路线图、动物种质资源与现代育种科技发展路线图、资源节约型农业科技发展路线图、农业生产与食品安全科技发展路线图、农业现代化与智能化农业科技发展路线图及未来农业科技发展体质和政策保障。

书籍目录

Abstract

1 Outlook of Agricultural Development to 2050 and the Demand for Science and Technology

1.1 Outlook for Global Agriculture Development to 2050

1.2 Outlook of Agricultural Development in China to 2050

1.3 Outlook for Demand of Major Agricultural Technology in China to 2050

Main References

2 Roadmap and Goals of Agricultural Science and Technology in China

2.1 The General Goal

2.2 Target Phases

2.3 General Roadmap

3 Roadmap of Plant Germplasm Resources and Modern Plant Breeding Science and Technology Development

3.1 Requirements and Trends for Future Development.

3.2 Scientific and Technological Goals

3.3 Roadmap for Scientific Development

Main References

4 Roadmap of Animal Germplasm Resources and Modern Breeding Science and Technology Development

4.1 The Requirements, Significances and Trends of Development

4.2 Biotechnology Development Goals

4.3 Roadmap of the Scientific and Technological Advance

Main References

5 Roadmap of Resource Saving Agricultural Science and Technology Development

5.1 Development Requirement, Significance and Tendency

5.2 Technological Development Goal

5.3 A Roadmap to Technological Development

Main References

6 Roadmap of Agricultural Production and Food Safety Science and Technology Development

6.1 The Demand and Significance of Development

6.2 Status and Trend of Technology Development

6.3 Technology Development Goal

6.4 Technology Development Roadmap

Main References

7 Roadmap of Agricultural Modernization and Intelligentization Science and Technology Development

7.1 Development Needs, Significance and Tendency ..

7.2 The Goal of Scientific Development

7.3 Technological Development Roadmap

8 The Institutions and Policy Support for Agricultural Science

and Technological Development in the Future

8.1 Deepen the Reform of Agricultural Science and Technology, Establishing a National Innovation System for Agricultural Science and Technology

8.2 Establish National Agricultural Long-term Technology Investment Mechanism and Improve the Investment Structure of Agricultural Science and Technology

8.3 Train a Large Number of Talents and Innovative Teams, and Enhance the Ability of Independent Innovation of Agricultural Science and Technology

Main References

Epilogue

章节摘录

插图：2) In the field of animal germplasm resource and modern breeding science and technology, we mainly use integration of multidisciplinary research methods in the fields of life science and biotechnology such as systems biology, bioinformatics, genomics and proteomics, genetic engineering, etc, with major product-oriented research & development strategy, and develop healthy and sustainable development of animal aquaculture, including marine fisheries, in order to cultivate livestock, poultry and aquatic products with security, quick growth, high protein-content, high meat yield, high feed transformation or resistance to diseases. 3) In the field of resource saving agricultural science and technology, it is to develop high-efficient utilization mechanisms and methods on water, nutrients, and artificial assistance resources. Main investigations focus on arable land nourishing and substitution technology, engineering-biology-chemistry water saving technology, watershed water resource management technology, water-fertility-energy integrated management, precision mechanized implement technology, and intelligent fertilizer. It is to establish three agriculture production technology systems, e.g., land-saving agriculture, water-saving agriculture, fertilizer- and energy-saving agriculture. It is to realize agriculture production intensification, mechanization, large-scale operation and industrialization. It is to realize the enhancement of sustainable agriculture production and the utilization of resources.

编辑推荐

《中国至2050年农业科技发展路线图(英文版)》：As one of the eighteen field-specific reports comprising the comprehensive scope of the strategic general report of the Chinese Academy of Sciences, this sub-report addresses long-range planning for developing science and technology in the field of agriculture. They each craft a roadmap for their sphere of development to 2050. In their entirety, the general and sub-group reports analyze the evolution and laws governing the development of science and technology, describe the decisive impact of science and technology on the modernization process, predict that the world is on the eve of an impending S&T revolution, and call for China to be fully prepared for this new round of S&T advancement. Based on the detailed study of the demands on S&T innovation in China's modernization, the reports draw a framework for eight basic and strategic systems of socio-economic development with the support of science and technology, work out China's S&T roadmaps for the relevant eight basic and strategic systems in line with China's reality, further detail S&T initiatives of strategic importance to China's modernization, and provide S&T decision-makers with comprehensive consultations for the development of S&T innovation consistent with China's reality. Supported by illustrations and tables of data, the reports provide researchers, government officials and entrepreneurs with guidance concerning research directions, the planning process, and investment. 《Agricultural Science & Technology in China——A Roadmap to 2050》 Includes the following content: Founded in 1949, the Chinese Academy of Sciences is the nation's highest academic institution in natural sciences. Its major responsibilities are to conduct research in basic and technological sciences, to undertake nationwide integrated surveys on natural resources and ecological environment, to provide the country with scientific data and consultations for government's decision-making, to undertake government-assigned projects with regard to key S&T problems in the process of socio-economic development, to initiate personnel training, and to promote China's high-tech enterprises through its active engagement in these areas.

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