

1. Record Nr.	UNINA9910962019103321
Titolo	Resource sharing in biomedical research / / Committee on Resource Sharing in Biomedical Research, Division of Health Sciences Policy, Institute of Medicine ; Kenneth I. Berns, Enriqueta C. Bond, and Frederick J. Manning, editors
Pubbl/distr/stampa	Washington, D.C., : National Academy Press, 1996
ISBN	9786610192021 9781280192029 128019202X 9780309589659 0309589657 9780585154640 0585154643
Edizione	[1st ed.]
Descrizione fisica	viii, 96 p. : ill
Altri autori (Persone)	BernsKenneth I. <1938-> BondEnriqueta C ManningFrederick J
Disciplina	610/.7/2073
Soggetti	Medicine - Research - United States Medical research personnel - United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Report on a workshop, held in Washington, D.C., January 22-23, 1996" --Pref.
Nota di bibliografia	Includes bibliographical references.
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Policies for Retaining and Discarding Data and Material -- Quality Control -- Well-Defined Policies for Function of Research and Service at the Facility -- Sophisticated Information Retrieval and Transfer Systems -- Issues and Problems -- One Uniform Policy on Resource Sharing is Not Possible -- Incentives and Rewards for Resource Sharing are Not Fully Developed -- Methods for Enforcing Existing Policies on Resource Sharing are Inadequate -- There are Many Private and Public Stakeholders in Any Major Resource Sharing Attempt, Often with Conflicting Goals -- Who Pays and What Do They Pay for? -- Regulatory Requirements and Documentation Can Be Unnecessarily Complex and Burdensome -- Education of Scientists Covers Neither the Ethos of Sharing Nor Intellectual and Tangible Property Issues -- Resource Sharing Can Have National and International Implications -- There is a Gap in Leadership -- Partnerships in Resource Sharing May Be Unequal -- Monopolies Can Be Good or Bad -- RECOMMENDATIONS -- 1 Introduction -- COMPETITION FOR FUNDS -- INCENTIVES FOR SCIENTISTS -- NATIONALISM -- METHODS AND GOALS OF THIS STUDY -- A Member Survey -- The Committee. The Workshop -- The Report and Its Recommendations -- REFERENCES -- 2 The American Type Culture Collection -- GENERAL FACILITIES -- PROGRAMS -- Collection, Research, and Services Program -- Professional Services Program -- Education Services Program -- Information Services Program -- OWNERSHIP AND ACCESS ISSUES -- COST ISSUES -- OTHER ISSUES AND PROBLEMS -- 3 The Multinational Coordinated Arabidopsis Thaliana Genome Research Project -- PROJECT ELEMENTS -- OWNERSHIP AND ACCESS ISSUES -- COST ISSUES -- OTHER ISSUES AND PROBLEMS -- 4 The Jackson Laboratory -- ANIMAL RESOURCE PROGRAMS -- Production, Sale, Derivation, and Maintenance of Mice -- Preservation -- Derivation -- Surgery -- Bioinformatics -- OWNERSHIP AND ACCESS ISSUES -- COST ISSUES -- OTHER ISSUES AND PROBLEMS -- 5 The Washington Regional Primate Research Center -- FACILITIES AND PROGRAMS -- OWNERSHIP AND ACCESS ISSUES -- COST ISSUES -- OTHER ISSUES AND PROBLEMS -- 6 The Macromolecular Crystallography Resource at the Cornell High-Energy Synchrotron Source -- USER FACILITIES FOR PROTEIN CRYSTALLOGRAPHY AT SYNCHROTRONS -- THE MACCHESS RESEARCH RESOURCE -- Core Research Projects -- Collaborative Research Projects -- User Research Projects (Service) -- Training and Dissemination -- Workshops and Symposia -- Training Videos -- CHESS Newsletter -- MacCHESS World Wide Web (WWW) Home Page -- OWNERSHIP AND ACCESS ISSUES -- COST ISSUES -- OTHER ISSUES AND PROBLEMS -- 7 The Human Genome Center: Lawrence Livermore National Laboratory -- LAWRENCE LIVERMORE NATIONAL LABORATORY -- HUMAN GENOME CENTER -- Instrumentation and Technology -- Information -- Biological Materials -- Chromosome 19-Specific Cosmids -- Image Consortium cDNA Clones -- OWNERSHIP AND ACCESS ISSUES -- SUMMARY OF ISSUES AND PROBLEMS -- 8 Conclusions and Recommendations -- FEATURES OF SUCCESSFUL RESOURCE SHARING. Strong Scientific Leadership in Agencies and the Research Community -- Adequate Core Funding -- Marketing and Advertising -- Clear Guidelines about Ownership and Access -- User Fees -- Clear Policies for Retaining and Discarding Data and Material -- Quality Control -- Well-Defined Policies for Function of Research and Service at the Facility -- Sophisticated Information Retrieval and Transfer Systems -- ISSUES AND PROBLEMS -- One Uniform Policy on Resource Sharing is Not Possible -- Incentives and Rewards for Resource Sharing are Not Fully Developed -- Sharing Requires Incentives, Not Disincentives -- The Importance of Material and Data Assets Changes Over Time --

Technologies and Needs are Evolving Very Rapidly -- New Definitions of "Publication" May Have to Evolve to Keep Pace with the New Electronic Information Systems -- Methods for Enforcing Existing Policies on Sharing are Inadequate -- There are Many Private and Public Stakeholders in any Major Resource Sharing Attempt, Often With Conflicting Goals -- Who Pays and What Do They Pay for? -- Regulatory Requirements and Documentation Can Be Unnecessarily Complex and Burdensome -- Education of Scientists Covers Neither the Ethos of Sharing Nor Intellectual and Tangible Property Issues -- Resource Sharing Can Have National and International Implications -- There is a Gap in Leadership -- Partnerships in Sharing Resources May Be Unequal -- Monopolies Can Be Good or Bad -- RECOMMENDATIONS -- Appendix A Workshop on Resource Sharing in Biomedical Research -- Appendix B Acronyms.

Sommario/riassunto

The United States is entering an era when, more than ever, the sharing of resources and information might be critical to scientific progress. Every dollar saved by avoiding duplication of efforts and by producing economies of scale will become increasingly important as federal funding enters an era of fiscal restraint. This book focuses on six diverse case studies that share materials or equipment with the scientific community at large: the American Type Culture Collection, the multinational coordinated *Arabidopsis thaliana* Genome Research Project, the Jackson Laboratory, the Washington Regional Primate Research Center, the Macromolecular Crystallography Resource at the Cornell High-Energy Synchrotron Source, and the Human Genome Center at Lawrence Livermore National Laboratory. The book also identifies common strengths and problems faced in the six cases, and presents a series of recommendations aimed at facilitating resource sharing in biomedical research.
