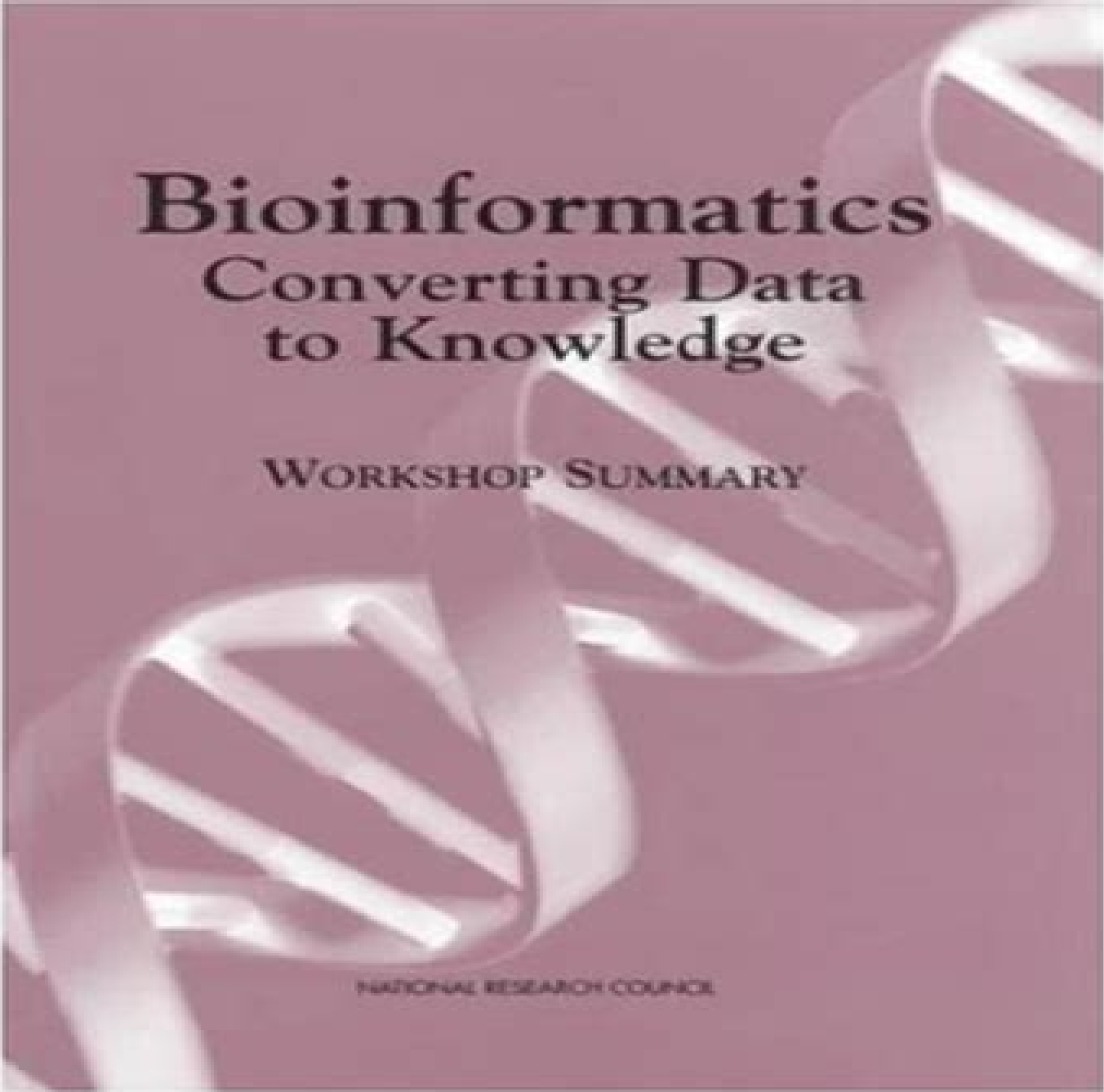




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Bioinformatics National Research Council, Commission on Life Sciences, Board on Biology, Joan Esnayra, Robert Pool, 2000-12-01 The goal of this workshop was to bring together bioinformatics stake holders from government academe and industry for a day of presentations and dialogue Fifteen experts identified and discussed some of the most important issues raised by the current flood of biologic data Topics explored included the importance of database curation database integration and interoperability consistency and standards in terminology error prevention and correction data provenance ontology the importance of maintaining privacy data mining and the need for more computer scientists with specialty training in bioinformatics Although formal conclusions and recommendations will not come from this particular workshop many insights may be gleaned about the future of this field from the context of the discussions and presentations described here

Ensuring the Integrity, Accessibility, and Stewardship of Research Data in the Digital Age Institute of Medicine, National Academy of Engineering, National Academy of Sciences, Committee on Science, Engineering, and Public Policy, Committee on Ensuring the Utility and Integrity of Research Data in a Digital Age, 2009-11-17 As digital technologies are expanding the power and reach of research they are also raising complex issues These include complications in ensuring the validity of research data standards that do not keep pace with the high rate of innovation restrictions on data sharing that reduce the ability of researchers to verify results and build on previous research and huge increases in the amount of data being generated creating severe challenges in preserving that data for long term use Ensuring the Integrity Accessibility and Stewardship of Research Data in the Digital Age examines the consequences of the changes affecting research data with respect to three issues integrity accessibility and stewardship and finds a need for a new approach to the design and the management of research projects The report recommends that all researchers receive appropriate training in the management of research data and calls on researchers to make all research data methods and other information underlying results publicly accessible in a timely manner The book also sees the stewardship of research data as a critical long term task for the research enterprise and its stakeholders Individual researchers research institutions research sponsors professional

societies and journals involved in scientific engineering and medical research will find this book an essential guide to the principles affecting research data in the digital age **Medical Informatics** Hsinchun Chen, Sherrilynne S. Fuller, Carol Friedman, William Hersh, 2006-07-19 Knowledge Management and Data Mining in Biomedicine covers the basic foundations of the area while extending the foundational material to include the recent leading edge research in the field The newer concepts techniques and practices of biomedical knowledge management and data mining are introduced and examined in detail It is the research and applications in these areas that are raising the technical horizons and expanding the utility of informatics to an increasing number of biomedical professionals and researchers These concepts and techniques are illustrated with detailed case studies **Translational Bioinformatics in Healthcare and Medicine** ,2021-05-13

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Encyclopedia of Bioinformatics and Computational Biology, 2018-08-21. Encyclopedia of Bioinformatics and Computational Biology. ABC of Bioinformatics. Three Volume Set combines elements of computer science, information technology, mathematics, statistics, and biotechnology, providing the methodology and in silico solutions to mine biological data and processes. The book covers Theory, Topics, and Applications with a special focus on Integrative omics and Systems Biology. The theoretical, methodological underpinnings of BCB including phylogeny are covered, as are more current areas of focus such as translational bioinformatics, cheminformatics, and environmental informatics. Finally, Applications provide guidance for commonly asked questions. This major reference work spans basic and cutting edge methodologies authored by leaders in the field, providing an invaluable resource for students, scientists, professionals in research institutes, and a broad swath of researchers in biotechnology and the biomedical and pharmaceutical industries. Brings together information from computer science, information technology, mathematics, statistics, and biotechnology. Written and reviewed by leading experts in the field, providing a unique and authoritative resource. Focuses on the main theoretical and methodological concepts before expanding on specific topics and applications. Includes interactive images, multimedia tools, and crosslinking to further resources and databases.

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