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Michael D. Griffin; Richard C. Henry; Robert T. Herres; Robert Jastrow; Lyndon B. Johnson; John F. Kennedy; George A. Keyworth; James R. Killian Jr.; George Kistiakowsky; Hans M. Mark
Neil H. McElroy; Robert S. McNamara; John B. Medaris; Thomas S. Moorman Jr.; Richard M. Nixon; Barack H. Obama; Thomas O. Paine; Samuel C. Phillips; John L. Piotrowski; Donald A. Quarles; Ronald W. Reagan; Donald H. Rumsfeld; Bernard A. Schriever; Wernher von Braun; Caspar W. Weinberger; Thomas D. White; Jerome B. Wiesner; 6 Data and Documents; Documents; NSC-5520, "Draft Statement of Policy on U. S. Scientific Satellite Program,"; National Aeronautics and Space Act of 1958; Department of Defense Directive 5160.32, "Development of Space Systems,"; National Security Decision Memorandum "Development of Anti-Satellite Capability," Department of Defense Directive 3100.10, "Space Policy," "Fact Sheet: U.S. Commercial Remote Sensing Policy,"; "Fact Sheet: U.S. Space-Based Positioning, Navigation, and Timing Policy,"; "National Space Policy of the United States of America," 7 Directory of Organizations; U.S. Organizations; 8 Resources; Books, Chapters in Books, and Monographs; Journal Articles; Periodicals; Congressional Hearings and Reports; Government Documents, Studies, and Technical Reports; Documents from NSC Box at National Archives, Washington, D.C.; Newspaper Articles
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List of Acronyms; Index; About the Author

Sommario/riassunto

Two-and-a-half years before Russia launched the first Sputnik satellites in 1957, the United States had already established a secret policy that emphasized peaceful applications of space technology and set the precedent of using satellite overflight for reconnaissance collection. Almost all of the organization and management structures that were created in the 1950s continue to affect U.S. national security space policy today.

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Titolo	Accelerated Path to Cures // edited by Josep Bassaganya-Riera
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Descrizione fisica	1 online resource (88 pages)
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Introduction to Accelerated Path to Cures and Precision Medicine in Inflammatory Bowel Disease -- Chapter 2: Computer-Aided Drug Discovery -- Chapter 3: Preclinical Studies: Efficacy and Safety -- Chapter 4: From Nutritional Immunology to Drug Development -- Chapter 5: Development of Synthetic Patient Populations and In Silico Clinical Trials.
Sommario/riassunto	Accelerated Path to Cures provides a transformative perspective on the power of combining advanced computational technologies, modeling, bioinformatics and machine learning approaches with nonclinical and clinical experimentation to accelerate drug development. This book discusses the application of advanced modeling technologies, from target identification and validation to nonclinical studies in animals to Phase 1-3 human clinical trials and post-approval monitoring, as alternative models of drug development. As a case of successful integration of computational modeling and drug development, we discuss the development of oral small molecule therapeutics for inflammatory bowel disease, from the application of docking studies to

screening new chemical entities to the development of next-generation in silico human clinical trials from large-scale clinical data. Additionally, this book illustrates how modeling techniques, machine learning, and informatics can be utilized effectively at each stage of drug development to advance the progress towards predictive, preventive, personalized, precision medicine, and thus provide a successful framework for Path to Cures. .
