

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Record Nr.           | UNINA9910815052503321                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Titolo                  | Collaborative innovation in drug discovery : strategies for public and private partnerships // edited by Dr. Rathnam Chaguturu ; Nobel Laureate Ferid Murad, foreword ; contributors Khusru Asadullah [and sixty four others]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Pubbl/distr/stampa      | Hoboken, New Jersey : , : Wiley, , 2014<br>©2014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ISBN                    | 1-118-77816-2<br>1-118-77815-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Descrizione fisica      | 1 online resource (760 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Collana                 | Wiley Series on Technologies for the Pharmaceutical Industry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Disciplina              | 615.1/9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Soggetti                | Drug Discovery<br>Public-Private Sector Partnerships<br>Drug development<br>Public-private sector cooperation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Lingua di pubblicazione | Inglese                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Formato                 | Materiale a stampa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Note generali           | Description based upon print version of record.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Nota di bibliografia    | Includes bibliographical references at the end of each chapters and index.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Nota di contenuto       | Cover; Title page; Copyright page; Dedication; Collaborative Drug Discovery Ethos; Contents; Foreword; Preface; About the Book; About the Editor; Contributors; Part I: Perspectives on Collaborative Innovation; 1: Productive Relationships in Research and Development between Government, Industry, and Universities; Universities, Government, and Industry: Historical Beginnings in Prussia; Refinement and Broad Adoption: the United States; Land Grants; Investments in Research; Intellectual Property; Impact on U.S. Economy; General Principles for Success; Governments; Universities; Industry 2: Divided We Fall Challenges; Collaboration Models; Examples of Successful Biomedical Collaborations; Biomarkers Consortium; Predictive Safety Testing Consortium; SNP and SAEC Consortia; Principles of Collaboration; Governance, Administration, and Autonomy; Human Factors; Conclusion; References; 3: Innovation: Open Source and Nonprofit Models in Drug Discovery; Why Do People |

Innovate?; How Do We Encourage Innovation?; Why Is Innovation Important?; Warnings Regarding Innovation in Drug Discovery; Open Source Models; Nonprofit Models; Recommendations; References  
4: The Changing Face of Innovation in Drug DiscoveryIntroduction; Core Objectives of the Drug Discovery Process; Major Innovations in Technology Have Advanced Drug Discovery; Target Identification and Target Validation; Hit Identification: The First Stage in Drug Hunting; Lead Optimization: A Field to Which Companies Must Commit Major Amounts of Human and Financial Resources; Preclinical Assessment: Select the First-in-Class and/or Best-in-Class Drug Candidate for Clinical Development; An Important Trend: Academic and Pharmaceutical Organizations Are Collaborating in Support of Drug Discovery  
Future Perspectives: Where Is Innovation Leading?References; 5: Current Trends in Collaborative Drug Discovery and Strategies to De-Risk Precompetitive Initiatives; Pharmaceutical Industry's Perspective; Academia's Perspective; Open (Collaborative) Innovation: A New Business Model; Drug Discovery through Collaborations; Drug Discovery through Consortia; Drug Discovery through Repurposing Strategies; Probe Discovery in Public Domain; Effective Management of Academia-Pharma Collaborations; Concluding Remarks; References  
6: A Perspective on the Evolution of Collaborative Drug Discovery and Future ChallengesEvolution of Collaborative Drug Discovery; Challenges for Collaborative Drug Discovery; Conclusion; References; Part II: Governmental Initiatives Accelerate Precompetitive Collaboration; 7: The Value of University-Industry Partnerships; Guiding Principles for University-Industry Collaborations; The Johnson Continuum; Role of Cocreation: Companies, Government, and Universities; Maryland Industrial Partnerships (MIPS) Program; Funding for Collaborations with Academia  
New Initiatives to Transform University-Industry Collaborations

---

Sommario/riassunto

Can academia save the pharmaceutical industry? The pharmaceutical industry is at a crossroads. The urgent need for novel therapies cannot stem the skyrocketing costs and plummeting productivity plaguing R&D, and many key products are facing patent expiration. Dr. Rathnam Chaguturu presents a case for collaboration between the pharmaceutical industry and academia that could reverse the industry's decline. Collaborative Innovation in Drug Discovery: Strategies for Public and Private Partnerships provides insight into the potential synergy of basing R&D in academia while leaving d

---