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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
