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Nota di contenuto	Part 1. A Century of Advances in Pharmacology -- 1. Perspectives of Pharmacology Over the Past 100 years -- 2. Emergent concepts of receptor pharmacology -- 3. The Evolving Landscape of Cancer Therapeutics -- 4. Monoclonal Antibodies: Past, Present and Future -- 5. 100 years of Drug Delivery to the Lungs -- 6. Exploiting the Diversity of Ion Channels: Ion channel Pharmacology for Pain modulation -- 7. Exploiting the Diversity of Ion Channels: Modulation of Ion Channels for Therapeutic Indications -- Part 2. Recent developments and enabling technologies in pharmacology -- 8. Genetically Encoded Fluorescent Calcium and Voltage Indicators -- 9. Mechanistic Image-Based Modeling: Concepts and Applications of Image-Based Modeling -- 10. Pharmacometabonomics: The Prediction of Drug Effects Using Metabolic Profiling -- 11. The Microbiome and its Potential for Pharmacology -- 12. Harnessing Human Microphysiology Systems as Key Experimental Models for Quantitative Systems Pharmacology -- Part 3. The future of pharmacology -- 13. The future of clinical trial design: The Transition from Hard Endpoints to Value-Based Endpoints -- 14. Placebos and the Placebo Effect in Drug Trials -- 15. Pharmacoepidemiology -- 16. Why are new drugs expensive and how

can they stay affordable? .

Sommario/riassunto

Celebrating 100 years of HEP, this volume will discuss key pharmacological discoveries and concepts of the past 100 years. These discoveries have dramatically changed the medical treatment paradigms of many diseases and these concepts have and will continue to shape discovery of new medicines. Newly evolving technologies will similarly be discussed as they will shape the future of the pharmacology and, accordingly, medical therapy.