

1. Record Nr.	UNINA9910863166203321
Titolo	Drug Delivery Challenges and Novel Therapeutic Approaches for Retinal Diseases // edited by Christopher L. Cioffi
Pubbl/distr/stampa	Springer International Publishing, 2020 Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-56619-6
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (IX, 272 p. 1 illus.)
Collana	Topics in Medicinal Chemistry, , 1862-247X ; ; 35
Disciplina	615.19
Soggetti	Medicinal chemistry Ophthalmology Pharmaceutical chemistry Medical genetics Medicinal Chemistry Pharmaceutics Clinical Genetics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	An Overview of Retinal Diseases and Current Ocular Drug Discovery -- Ocular Pharmacokinetics and Drug Delivery Challenges -- Models of Pathologies Associated with Age-related Macular Degeneration and Their Utilities in Drug Discovery -- Recent Developments in Agents for the Treatment of Age-Related Macular Degeneration and Stargardt Disease -- Targets and Strategies toward the Development of Therapeutics for Diabetic Retinopathy and Diabetic Macular Edema -- Recent Developments for the Treatment of Glaucoma -- Emerging Gene Therapy Treatments for Retinal Degenerative Diseases. .
Sommario/riassunto	This book reviews the current state of ocular drug therapy and future therapeutic opportunities for a wide variety of conditions, including Age-related Macular Degeneration, Diabetic Retinopathy and Macular Edema, Glaucoma, and Inherited Retinal Diseases. Retinal diseases are major contributors to moderate or severe vision impairment in adults aged 50 years and older. The respective patient populations for many

of these indications is expected to significantly increase as the world population continues to grow older. An improved understanding of the etiological underpinnings of ocular degenerative diseases over the past decade has significantly bolstered ophthalmic drug discovery. In this volume, contributions from leading experts explore the unique challenges faced for ocular drug discovery and delivery providing the reader with detailed information on ocular pharmacokinetics, in vitro, ex vivo and in vivo models for retinal disease pathology and emerging gene therapy treatments. The book is intended for all researchers and clinicians who wish to increase their knowledge on the latest findings in ocular drug therapy.
