

## Pharmacology of Ocular Therapeutics

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### Abstrak

This book comprises an integrated review of ocular therapeutics across all relevant fields. It addresses the real-world requirements of ophthalmologists, pharmacists and optometrists, as observed through working alongside these practitioners for two decades. Knowledge surrounding agents used in ophthalmic practice has, historically, been scattered. The book facilitates understanding of ocular drug therapy by compiling all key aspects of the pharmacology, toxicology, pharmaceutical science, ocular biochemistry and cell biology of these agents.

Chapters detail drug transfer across barriers, systemic toxicity of topically applied drugs, autonomic drugs used for diagnostics, as well as anti-inflammatory, antiallergic, glaucoma and antimicrobial therapies, and avenues for the development of new ocular drugs. Applications of extemporaneously prepared formulations are described to inform day-to-day clinical practice. The use of mucoadhesive polymers in tear substitutes, ocular drug delivery systems, stem cell therapy, pharmacogenomics and antiangiogenic ocular chemotherapy are also explored. The book also provides insights from drugs of herbal origin, and a historical perspective on drugs for ocular use.

Practicing and resident ophthalmologists, optometrists, pharmacists, nursing professionals, scholars in ocular drug research and students will equally benefit from this comprehensive guide.