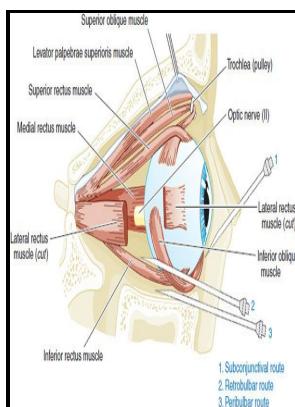


# Ocular pharmacology

**Mosby - Ocular pharmacology — Johns Hopkins University**



Description: -

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Eye diseases -- Drug therapy

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Notes: Includes bibliographical references and index.

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## Ocular pharmacology

Treatment of the posterior segment eg. vitreous, retina, choroid, and optic nerve is more challenging due to additional barriers. Several approaches have been tried in an effort to increase solubility and drug bioavailability while limiting toxicity, including methyl esterification and combination with liposomes and other vehicular compounds. Phase I reactions are carried out by a heterogeneous group of microsomal enzymes called cytochrome P 450 , of which various forms exist.

## Ocular Pharmacology Conferences

Intravenous and intramuscular administration of a drug result in high drug availability. This tetraene polyene is the only antifungal agent commercially available in the United States for use as an ophthalmic preparation. Ophthalmic gels eg, pilocarpine 4% gel release drugs by diffusion following erosion of soluble polymers.

## Ocular Pharmacology & Therapeutics

Attention has focused on agents that would disrupt the cell wall or interfere with metabolic processes within the fungal cell. Topical ocular administration is typically through the use of eye drops. It can be stored at room temperature or refrigerated, but it should not be frozen or exposed to light or high temperatures.

## Ocular pharmacology — Johns Hopkins University

Systemic ocular administration is medication taken orally to treat eye conditions.

## Ocular Pharmacology

In one study, the use of topically applied liposome-encapsulated amphotericin B was not associated with significantly increased corneal drug concentration. The final sections examine contact lens care systems, nutritional supplements and adverse effects of systematically administered drugs into the eye. The basic aspects of pharmacology have been presented in light of the natural physiology.

## **Ocular Pharmacology & Therapeutics**

For this reason, close drug monitoring is required e.

## **Ocular Pharmacology & Therapeutics**

**Drug absorption** For a drug to reach the site at which it produces its effect, it must first be absorbed from its site of administration. Recently, intravitreal injections have become a standard of care with biologics for the treatment of macular degeneration and other diseases. Many drugs also affect the function of microsomal enzyme systems.

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