



# Biochemistry of the Eye, 2nd edition

*David R. Whikehart PhD*

Download now

[Click here](#) if your download doesn't start automatically

# Biochemistry of the Eye,2nd edition

*David R. Whikehart PhD*

## **Biochemistry of the Eye,2nd edition** David R. Whikehart PhD

This specialized text presents a review of general biochemistry and an in-depth exploration of biochemistry unique to the eye. As a readable introduction to this challenging topic, it describes the molecular structures and biochemical events that occur in the eye. Specific clinical examples link basic science to clinical practice and provide a concrete basis for understanding complex concepts. This edition includes new, updated information in revised chapters plus two additional chapters on ocular fluids and pathology. General biochemistry is discussed in each chapter, with examples of biochemical pathology and disease processes such as age-related cataract formation and ocular diabetes.

- Well-illustrated content, featuring color inserts with 10 illustrations, shows visual aspects of biochemistry.
- Each chapter features a general review of the subject matter prior to discussing ocular biochemistry.
- Discussions of proteins that are either unique to the eye and/or have special functions in the eye, such as collagen's role in the structure of the cornea, emphasize the importance of these compounds and their many essential cellular and ocular functions.
- Discussions of the nature and function of enzymes, in addition to descriptions of examples of specific enzymes found in the eye, highlight the manner in which many biochemical reactions occur in the eye via enzyme catalysis.
- A chapter on carbohydrates emphasizes the importance of the two roles of carbohydrates in ocular tissue: energy supply (nutrition) and as a source of extracellular structure.
- An explanation of the many different kinds of lipids that exist in the eye features the most up-to-date material on tear film lipids and useful information on dietary Vitamin A requirements.
- A chapter on hormones deals with the role of hormones in general and shows how hormones play roles in ocular functions, including the process of visual transduction as a hormonal function.
- A thorough review of nucleic acid chemistry points out its role in molecular biological functions such as DNA replication, RNA transcription, and protein translation, as well as DNA mutations.
- A chapter on neurochemistry provides an understanding of basic neurochemistry and how neurochemistry can explain the complex functions of the retina.
- The immunochemistry chapter contains basic material on biochemical and cellular immunology, discussing immune privilege in the eye and the importance of immune reactions at the anterior segment.
- A new chapter describes the biochemical pathology of four degenerative conditions (corneal ulcers, chemical burns, glaucoma, and cellular apoptosis) to help the clinician understand pathological processes and the time course of degenerative processes and methods of treatment.
- A new chapter on Water and Ocular Fluids offers unique coverage of the functions of eye fluids and how drug companies must design drugs for the ocular surface, comparing the physical, chemical, and biological properties of water with fluids found in the eye.

 [Download Biochemistry of the Eye,2nd edition ...pdf](#)

 [Read Online Biochemistry of the Eye,2nd edition ...pdf](#)



## **Download and Read Free Online Biochemistry of the Eye,2nd edition David R. Whikehart PhD**

---

### **From reader reviews:**

#### **Ruth Ward:**

Have you spare time to get a day? What do you do when you have far more or little spare time? Yeah, you can choose the suitable activity for spend your time. Any person spent their particular spare time to take a go walking, shopping, or went to the Mall. How about open as well as read a book eligible Biochemistry of the Eye,2nd edition? Maybe it is to get best activity for you. You recognize beside you can spend your time using your favorite's book, you can smarter than before. Do you agree with their opinion or you have additional opinion?

#### **James Robbins:**

Book is written, printed, or illustrated for everything. You can recognize everything you want by a book. Book has a different type. As it is known to us that book is important matter to bring us around the world. Close to that you can your reading expertise was fluently. A guide Biochemistry of the Eye,2nd edition will make you to end up being smarter. You can feel a lot more confidence if you can know about everything. But some of you think that open or reading the book make you bored. It is far from make you fun. Why they are often thought like that? Have you trying to find best book or appropriate book with you?

#### **Junior Price:**

This Biochemistry of the Eye,2nd edition book is simply not ordinary book, you have after that it the world is in your hands. The benefit you receive by reading this book is information inside this reserve incredible fresh, you will get information which is getting deeper an individual read a lot of information you will get. This specific Biochemistry of the Eye,2nd edition without we realize teach the one who examining it become critical in imagining and analyzing. Don't be worry Biochemistry of the Eye,2nd edition can bring whenever you are and not make your tote space or bookshelves' become full because you can have it within your lovely laptop even cellphone. This Biochemistry of the Eye,2nd edition having good arrangement in word along with layout, so you will not experience uninterested in reading.

#### **Sylvia Grable:**

Nowadays reading books be than want or need but also turn into a life style. This reading practice give you lot of advantages. The huge benefits you got of course the knowledge your information inside the book that improve your knowledge and information. The info you get based on what kind of reserve you read, if you want send more knowledge just go with knowledge books but if you want really feel happy read one with theme for entertaining for instance comic or novel. The actual Biochemistry of the Eye,2nd edition is kind of publication which is giving the reader erratic experience.

**Download and Read Online Biochemistry of the Eye,2nd edition  
David R. Whikehart PhD #9S4EWVFB2U**

## **Read Biochemistry of the Eye,2nd edition by David R. Whikehart PhD for online ebook**

Biochemistry of the Eye,2nd edition by David R. Whikehart PhD Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Biochemistry of the Eye,2nd edition by David R. Whikehart PhD books to read online.

## **Online Biochemistry of the Eye,2nd edition by David R. Whikehart PhD ebook PDF download**

**Biochemistry of the Eye,2nd edition by David R. Whikehart PhD Doc**

**Biochemistry of the Eye,2nd edition by David R. Whikehart PhD Mobipocket**

**Biochemistry of the Eye,2nd edition by David R. Whikehart PhD EPub**