



Quirks of Human Anatomy: An Evo-Devo Look at the Human Body

By Lewis I. Held Jr

Download now

Read Online →

Quirks of Human Anatomy: An Evo-Devo Look at the Human Body By Lewis I. Held Jr

With the emergence of the new field of evolutionary developmental biology we are witnessing a renaissance of Darwin's insights 150 years after his Origin of Species. Thus far, the exciting findings from "evo-devo" have only been trickling into college courses and into the domain of non-specialists. With its focus on the human organism, Quirks of Human Anatomy opens the floodgates by stating the arguments of evo-devo in plain English, and by offering a cornucopia of interesting case studies and examples. Its didactic value is enhanced by 24 schematic diagrams that integrate a host of disparate observations, by its Socratic question-and-answer format, and by its unprecedented compilation of the literature. By framing the "hows" of development in terms of the "whys" of evolution, it lets readers probe the deepest questions of biology. Readers will find the book not only educational but also enjoyable, as it revels in the fun of scientific exploration.

↓ [Download Quirks of Human Anatomy: An Evo-Devo Look at the H...pdf](#)

📖 [Read Online Quirks of Human Anatomy: An Evo-Devo Look at the...pdf](#)

Quirks of Human Anatomy: An Evo-Devo Look at the Human Body

By Lewis I. Held Jr

Quirks of Human Anatomy: An Evo-Devo Look at the Human Body By Lewis I. Held Jr

With the emergence of the new field of evolutionary developmental biology we are witnessing a renaissance of Darwin's insights 150 years after his Origin of Species. Thus far, the exciting findings from "evo-devo" have only been trickling into college courses and into the domain of non-specialists. With its focus on the human organism, Quirks of Human Anatomy opens the floodgates by stating the arguments of evo-devo in plain English, and by offering a cornucopia of interesting case studies and examples. Its didactic value is enhanced by 24 schematic diagrams that integrate a host of disparate observations, by its Socratic question-and-answer format, and by its unprecedented compilation of the literature. By framing the "hows" of development in terms of the "whys" of evolution, it lets readers probe the deepest questions of biology. Readers will find the book not only educational but also enjoyable, as it revels in the fun of scientific exploration.

Quirks of Human Anatomy: An Evo-Devo Look at the Human Body By Lewis I. Held Jr Bibliography

- Rank: #1287020 in Books
- Brand: Brand: Cambridge University Press
- Published on: 2009-05-29
- Original language: English
- Number of items: 1
- Dimensions: 9.96" h x .67" w x 8.46" l, 1.25 pounds
- Binding: Paperback
- 274 pages

 [Download Quirks of Human Anatomy: An Evo-Devo Look at the H ...pdf](#)

 [Read Online Quirks of Human Anatomy: An Evo-Devo Look at the ...pdf](#)

Download and Read Free Online **Quirks of Human Anatomy: An Evo-Devo Look at the Human Body** By Lewis I. Held Jr

Editorial Review

Review

"I heartily recommend this book and found it a joy to read...The rich array of evo-devo research that is brought to bear in *Quirks of Human Anatomy* provides another independent line of evidence for our connection to the tree of life."

- Andrew J. Petto, *Evolution: Education and Outreach*

"The book is indeed a great success as it enables a simple and pleasing introduction to the field of evolutionary biology and Darwinian medicine...I strongly recommend reading it because it may inspire many future students to be engaged in various aspects of evolutionary studies. It is also a good read for the general public curious about evolution."

- Israel Hershkovitz, *The Evolution & Medicine Review*

"*Quirks of Human Anatomy: An Evo-Devo Look at the Human Body*, by Lewis I. Held, Jr. is a lively romp through the evolution of the human body - with particular attention to traits that do not work so well, which he calls 'quirks.' The book is well written, with humor and a real passion for the subject. The illustrations are clear and informative, and, as the text, packed with details."

- Anne Buchanan, *BioEssays*

"...Bridges the gap between basic research and comparative anatomy, but does so in a delightful and engaging manner that anyone can understand.... Despite the light touch of the author's prose, this is a serious book, supplemented by dozens of excellent illustrations and nearly 3,000 references, that has lots to offer anyone interested in evolution."

- John G. Fleagle, *Evolutionary Anthropology*

"An interesting and thoughtful book.... At times, humorous and whimsical but always accurate in addressing the issue, principally from an embryological perspective. It presents numerous tables and illustrations and more than adequate commentary.... Overall, the book is a good read for those interested in evolutionary biology and should be a successful book in the hands of those students Held is aiming to reach."

- James M. Williams, *The Journal of the American Medical Association*

"For graduate students looking for meaningful questions in the biological sciences to investigate, this book will provide an outstanding collection of many such questions, and provide some hints of where to start, with nearly half the book providing appropriate references - places to start the search, all neatly linked to their presentation in the text.... All in all, a fascinating read, presented with delightful humor, many helpful

graphic aids, and a great variety related topics."

- Larry Flammer, Evolution and the Nature of Science Institutes (ENSI)

"The potential readership of this precious little book is wide and diverse. Among those in the trade of Evo-Devo, I doubt there are more than a handful who have ever looked at their own body with professional eyes, as Lewis Held has done so successfully in these pages. Thus, I expect many colleagues will enjoy this book as I did. But for those who need an introduction to the field, this is one of the first titles I would recommend, not simply because it offers a readable and provocative introduction to most of the core concepts and issues in Evo-Devo, but also because it balances so effectively two seemingly opposite, but equally fundamental truths. On the one hand, a great many quirks of animal (not necessarily human) anatomy make sense only when seen through the lens of evolutionary developmental biology. On the other hand, the field of Evo-Devo has just begun to be explored: Held's list of unresolved puzzles, well searchable through the book's analytical index, includes as much as 113 entries."

- Alessandro Minelli, Evolution and Development

Review

"I heartily recommend this book and found it a joy to read...The rich array of evo-devo research that is brought to bear in Quirks of Human Anatomy provides another independent line of evidence for our connection to the tree of life."

- Andrew J. Petto, Evolution: Education and Outreach

"The book is indeed a great success as it enables a simple and pleasing introduction to the field of evolutionary biology and Darwinian medicine...I strongly recommend reading it because it may inspire many future students to be engaged in various aspects of evolutionary studies. It is also a good read for the general public curious about evolution."

- Israel Hershkovitz, The Evolution & Medicine Review

"Quirks of Human Anatomy: An Evo-Devo Look at the Human Body, by Lewis I. Held, Jr. is a lively romp through the evolution of the human body - with particular attention to traits that do not work so well, which he calls 'quirks.' The book is well written, with humor and a real passion for the subject. The illustrations are clear and informative, and, as the text, packed with details."

- Anne Buchanan, BioEssays

"...Bridges the gap between basic research and comparative anatomy, but does so in a delightful and engaging manner that anyone can understand.... Despite the light touch of the author's prose, this is a serious book, supplemented by dozens of excellent illustrations and nearly 3,000 references, that has lots to offer anyone interested in evolution."

- John G. Fleagle, Evolutionary Anthropology

"An interesting and thoughtful book.... At times, humorous and whimsical but always accurate in addressing the issue, principally from an embryological perspective. It presents numerous tables and illustrations and more than adequate commentary.... Overall, the book is a good read for those interested in evolutionary biology and should be a successful book in the hands of those students Held is aiming to reach."

- James M. Williams, The Journal of the American Medical Association

"For graduate students looking for meaningful questions in the biological sciences to investigate, this book will provide an outstanding collection of many such questions, and provide some hints of where to start, with nearly half the book providing appropriate references - places to start the search, all neatly linked to their presentation in the text.... All in all, a fascinating read, presented with delightful humor, many helpful graphic aids, and a great variety related topics."

- Larry Flammer, Evolution and the Nature of Science Institutes (ENSI)

"The potential readership of this precious little book is wide and diverse. Among those in the trade of Evo-Devo, I doubt there are more than a handful who have ever looked at their own body with professional eyes, as Lewis Held has done so successfully in these pages. Thus, I expect many colleagues will enjoy this book as I did. But for those who need an introduction to the field, this is one of the first titles I would recommend, not simply because it offers a readable and provocative introduction to most of the core concepts and issues in Evo-Devo, but also because it balances so effectively two seemingly opposite, but equally fundamental truths. On the one hand, a great many quirks of animal (not necessarily human) anatomy make sense only when seen through the lens of evolutionary developmental biology. On the other hand, the field of Evo-Devo has just begun to be explored: Held's list of unresolved puzzles, well searchable through the book's analytical index, includes as much as 113 entries."

- Alessandro Minelli, Evolution and Development

About the Author

Dr Lewis I. Held earned his BS in Life Sciences from the Massachusetts Institute of Technology in 1973. On completion of his PhD in molecular biology from the University of California, Berkeley in 1977, he became a Postdoctoral Fellow at the University of California, Irvine's Developmental Biology Center from 1977 to 1980. Following a 6-year period as an Assistant Professional Research Biologist at the University of California, Irvine, he joined Texas Tech University as an Associate Professor of Biology in 1987. He was awarded the President's Excellence in Teaching Medal from Texas Tech University in 1995 and is the author of *Models for Embryonic Periodicity and Imaginal Discs: The Genetic and Cellular Logic of Pattern Formation*.

Users Review

From reader reviews:

Mary West:

Book is definitely written, printed, or illustrated for everything. You can recognize everything you want by a e-book. Book has a different type. As you may know that book is important thing to bring us around the world. Adjacent to that you can your reading talent was fluently. A reserve *Quirks of Human Anatomy: An Evo-Devo Look at the Human Body* will make you to be smarter. You can feel much more confidence if you

can know about everything. But some of you think in which open or reading a book make you bored. It's not make you fun. Why they might be thought like that? Have you looking for best book or acceptable book with you?

Lucille Grant:

Reading a book can be one of a lot of task that everyone in the world adores. Do you like reading book so. There are a lot of reasons why people love it. First reading a publication will give you a lot of new data. When you read a book you will get new information mainly because book is one of numerous ways to share the information or even their idea. Second, reading through a book will make anyone more imaginative. When you reading through a book especially tale fantasy book the author will bring that you imagine the story how the character types do it anything. Third, you can share your knowledge to some others. When you read this Quirks of Human Anatomy: An Evo-Devo Look at the Human Body, you may tells your family, friends and soon about yours e-book. Your knowledge can inspire the others, make them reading a publication.

Duane Harden:

The publication with title Quirks of Human Anatomy: An Evo-Devo Look at the Human Body posseses a lot of information that you can learn it. You can get a lot of help after read this book. This book exist new information the information that exist in this e-book represented the condition of the world at this point. That is important to yo7u to be aware of how the improvement of the world. This specific book will bring you with new era of the glowbal growth. You can read the e-book in your smart phone, so you can read this anywhere you want.

Earl Quintana:

Quirks of Human Anatomy: An Evo-Devo Look at the Human Body can be one of your nice books that are good idea. We recommend that straight away because this e-book has good vocabulary that may increase your knowledge in vocabulary, easy to understand, bit entertaining but nevertheless delivering the information. The author giving his/her effort that will put every word into satisfaction arrangement in writing Quirks of Human Anatomy: An Evo-Devo Look at the Human Body nevertheless doesn't forget the main place, giving the reader the hottest and also based confirm resource info that maybe you can be certainly one of it. This great information can easily drawn you into new stage of crucial thinking.

Download and Read Online Quirks of Human Anatomy: An Evo-Devo Look at the Human Body By Lewis I. Held Jr
#MZY6BW4FP8X

Read Quirks of Human Anatomy: An Evo-Devo Look at the Human Body By Lewis I. Held Jr for online ebook

Quirks of Human Anatomy: An Evo-Devo Look at the Human Body By Lewis I. Held Jr 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 Quirks of Human Anatomy: An Evo-Devo Look at the Human Body By Lewis I. Held Jr books to read online.

Online Quirks of Human Anatomy: An Evo-Devo Look at the Human Body By Lewis I. Held Jr ebook PDF download

Quirks of Human Anatomy: An Evo-Devo Look at the Human Body By Lewis I. Held Jr Doc

Quirks of Human Anatomy: An Evo-Devo Look at the Human Body By Lewis I. Held Jr Mobipocket

Quirks of Human Anatomy: An Evo-Devo Look at the Human Body By Lewis I. Held Jr EPub