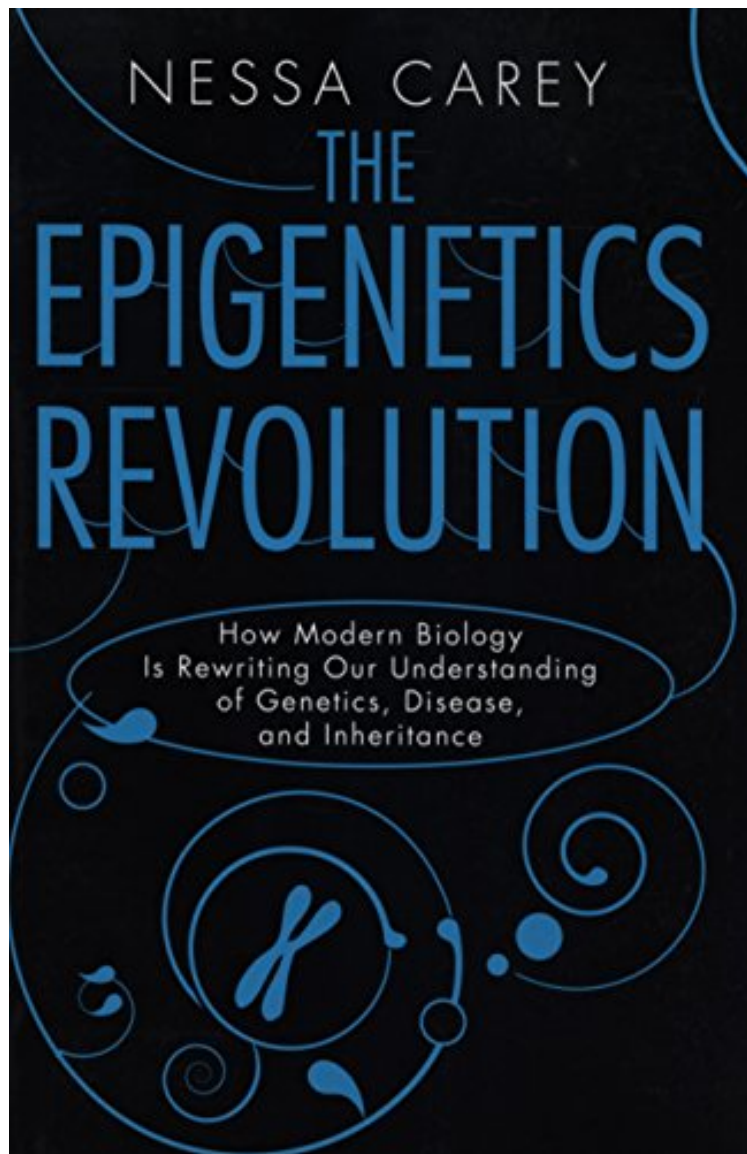


[Mobile ebook] The Epigenetics Revolution: How Modern Biology Is Rewriting Our Understanding of Genetics, Disease, and Inheritance

# The Epigenetics Revolution: How Modern Biology Is Rewriting Our Understanding of Genetics, Disease, and Inheritance

*Nessa Carey*

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**Nessa Carey : The Epigenetics Revolution: How Modern Biology Is Rewriting Our Understanding of Genetics, Disease, and Inheritance** before purchasing it in order to gage whether or not it would be worth my time, and all praised The Epigenetics Revolution: How Modern Biology Is Rewriting Our Understanding of Genetics, Disease, and

## Inheritance:

4 of 5 people found the following review helpful. Worth reading twice, at least. By Andrew K. Galloway I obtained this book via interlibrary loan. After reading and a couple days reflection, I ordered the book from . Oscar Wilde once said that a book not worth reading twice is probably not worth reading once. I strongly feel this book passes the OW test with flying colors. I did not understand everything I read but, so what? I understood the general idea and since I have followed the so-called Human Genome revolution, it has certainly modified and vastly improved my understanding of life, all life. It should also be remembered that science is moving very fast in recent decades and, there will, no doubt, be better and more knowledge via the bio revolution in the years to come. Do not depend on the media and TV to keep you abreast of these developments. TV hype and limited time cannot even scratch the surface if you want even a basic understanding of this and other, complex subjects. Francis Crick boasted of having discovered the "Secret of Life" when he, a physicist, discovered the shape of the DNA molecule. It was a great discovery, but thinking that it, and it alone was the Secret of Life is an exaggeration. Followed, of course by similar claims when the human genome was fully mapped. A note of caution based on such claims might be that, we should not, think, that epigenetics is the final answer to our struggle to understand LIFE, per se, in its totality. We may never get to that point but efforts should never cease and we are lucky indeed to have such writers as Nessa Carey to give us a ring side seat into watching these developments unfold. Thank you Nessa.

3 of 4 people found the following review helpful. A really great place to start. By DeKay's Opinion Most people know a little about DNA, genes and even molecular biology. The question becomes where to go from there. Nessa Carey's Epigenetics Revolution is an excellent place to go. This is one of those books, written for the non-specialist, that shows you how much you didn't know. The style is friendly for the average reader which makes sure the book will be read! There are certain areas of this book that are outstanding: 1. choice of subject and material with a natural development. The chapters flow nicely. 2. the level of detail. A little biochemistry that gives the feeling that you can understand what is really happening. 3. explanations built on Waddington's epigenetic landscape (very intuitive), clear simple figures and yes redundancy which can be useful. I think Dr. Carey benefited from being a teacher and she seems to understand just where the reader can use reminders (redundancy that may irritate the more advanced reader). Dr. Carey seems to understand the areas that are important in this field and is generous in her praise of original researchers. This is actually a good way to highlight what is important in their work. the accuracy of her judgment is supported by her remark that the work of Gurdon and Yamanaka are worthy of a Nobel Prize, which they won shortly after this book was published. I think this book deserves the high rating received on .

1 of 1 people found the following review helpful. On the slightly negative I found some portions of the book more detailed than I would like. The read was very worthwhile. By John T This book is an eye opener. I have known about epigenetics from earlier magazine articles in New Science, but so little was known at that time and I guess it was time to get an update. It seems that genetics only tell some of the story and it takes genes plus epigenes to make phenotypes. It is an unfolding story. The "temporary" modifications to DNA and Histones are a big part of the unfolding story of life. On the slightly negative I found some portions of the book more detailed than I would like. The read was very worthwhile!

Epigenetics can potentially revolutionize our understanding of the structure and behavior of biological life on Earth. It explains why mapping an organism's genetic code is not enough to determine how it develops or acts and shows how nurture combines with nature to engineer biological diversity. Surveying the twenty-year history of the field while also highlighting its latest findings and innovations, this volume provides a readily understandable introduction to the foundations of epigenetics. Nessa Carey, a leading epigenetics researcher, connects the field's arguments to such diverse phenomena as how ants and queen bees control their colonies; why tortoiseshell cats are always female; why some plants need cold weather before they can flower; and how our bodies age and develop disease. Reaching beyond biology, epigenetics now informs work on drug addiction, the long-term effects of famine, and the physical and psychological consequences of childhood trauma. Carey concludes with a discussion of the future directions for this research and its ability to improve human health and well-being.

Anyone seriously interested in who we are and how we function should read this book. (Peter Forbes The Guardian) Nessa Carey takes us on a lively and up-to-date tour of what's known about epigenetic mechanisms and their implications for ageing and cancer. (Laurence Hurst, University of Bath Focus Magazine) [Nessa Carey's] book combines an easy style with a textbook's thoroughness.... A bold attempt to bring epigenetics to a wide audience. (Jonathan Weitzman Nature) Carey's report on the rapidly developing state of epigenetics research may help nonscientists with public-policy, investment, and health-care decisions. (Booklist) An exhilarating exploration of an exciting new field, and a good gift for a bright biology student looking for a career choice. (Kirkus s) An enlightening introduction to what scientists have learned in the past decade about [epigenetics]. (Carl Zimmer The Wall Street Journal) This book provides an excellent introduction to a fascinating new field that may revolutionize our understanding of human health and disease. Highly recommended. (Library Journal) A must-read for every intelligent

person who likes to know what is going on in modern science. (Graham Storrs New York Journal of Books)[Carey] provides an excellent and largely accurate account of a fascinating and fast-moving area of modern biology. (Jonathan Hodgkin Times Literary Supplement)Written in an engaging manner using everyday metaphors to clarify complex concepts and utilizing welldefined diagrams, the author has produced an outstanding book with her wit and expertise. (Rita Hoots NSTA Recommends (National Science Teachers Association))[A] mercifully clear writer. (Katharine Whittemore The Boston Globe)About the AuthorNessa Carey is a visiting professor at Imperial College in London and currently works in the biotechnology and pharmaceutical industries, where she has specialized in epigenetics for nearly a decade. She has strong relationships with leading epigenetics researchers, medical labs in Europe, and with some of the most prestigious institutions in the United States, including the Harvard Medical School, the MD Anderson Cancer Center, and the Wistar Institute.