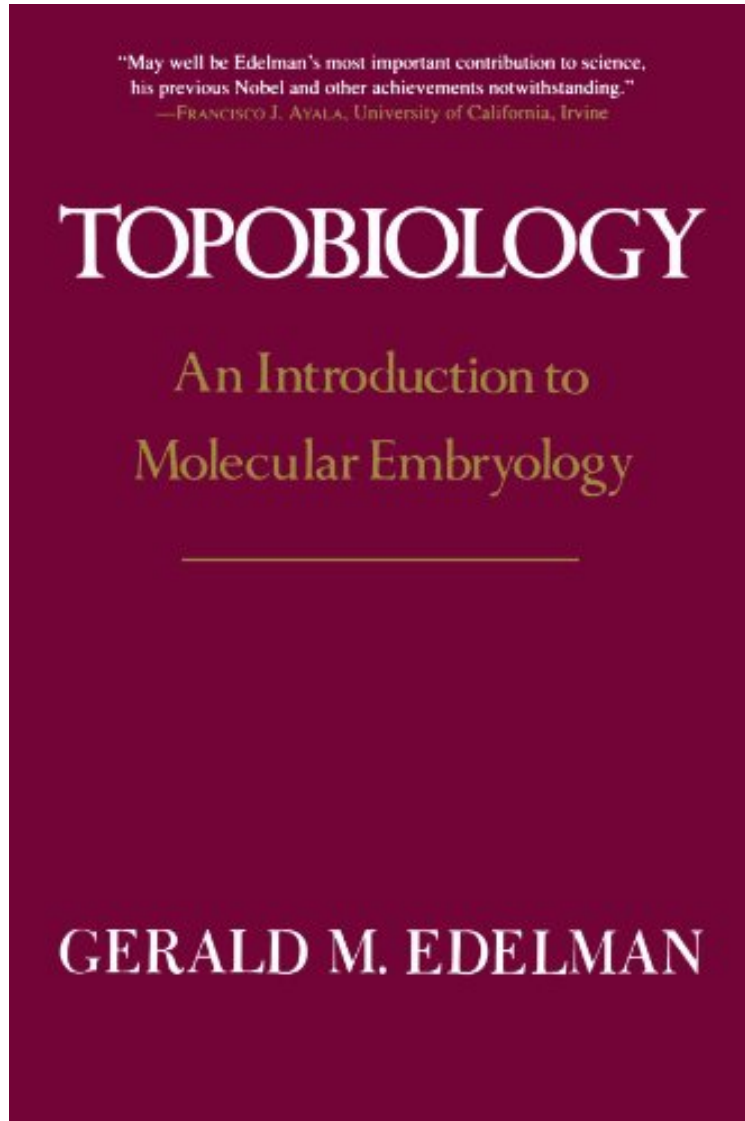


(Download) Topobiology: An Introduction To Molecular Embryology

Topobiology: An Introduction To Molecular Embryology

Gerald Edelman

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Gerald Edelman : Topobiology: An Introduction To Molecular Embryology before purchasing it in order to gage whether or not it would be worth my time, and all praised Topobiology: An Introduction To Molecular Embryology:

9 of 9 people found the following review helpful. Thick going, but worth the effort By A Customer Edelman's Topobiology provides an excellent introduction to the field of molecular embryology. In the book you will be

introduced to CAMs (cell adhesion molecules), SAMs (substrate adhesion molecules), and CJMs (cell junction molecules) that are produced and used by the body to keep itself organized and literally stuck together as it develops and grows. The processes of development and growth are extremely complex, and involve interactions among many different entities in the body. As the header suggests, this book is not an easy read; it presents abstract concepts, and the author uses extremely complex sentence constructions to tell his story. This is not a book for the faint of heart, it is written with the professional biologist in mind. If you have the strength and the courage, I suggest that you give this book a try.

3 of 3 people found the following review helpful. **TIMING AND LOCATION, LOCATION, LOCATION** By NeuroSplicer As a scientist more often than not I find it faster, when stepping into a new topic of interest, to first read one or two broader books on it, to get the rough map of the territory, before diving into more tightly focused research papers. Developmental Biology is a field I was only exposed to while an undergraduate but now find myself re-approaching with renewed interest as my research in synaptic competition take me into parallel paths. After about two generations of DNA and genes being the center of our attention, focus has now shifted to Epigenetics, the way the products of gene expression interact with one another and can eventually loop-back to regulate the functioning of the genes. And nowhere are epigenetic phenomena more prominent than during development. One thing to always remember about Developmental Biology: a cell's location and neighbors will determine its fate. And with that in mind, Edelman tries to complete Schrodinger's answer to the age old question: What is Life? This book is not for casual reading and although short (only 211 pages) it is packed with information. Not to be dishearten though, it comes with references, Glossary and Index to make it a great foundation-laying tool. This is an excellent book written by one of the giants of modern science. The only reason I withheld the fifth star is because this is almost a twenty years old book - and in science that is too long to still be considered current.

6 of 7 people found the following review helpful. **Heavy going, big payoff** By Alan R. Holyoak Edelman's Topobiology provides an excellent introduction to the field of molecular embryology. In the book you will be introduced to CAMs (cell adhesion molecules), SAMs (substrate adhesion molecules), and CJMs (cell junction molecules) that are produced and used by the body to keep itself organized and literally stuck together as it develops and grows. The processes of development and growth are extremely complex, and involve interactions among many different entities in the body. As the header suggests, this book is not an easy read; it presents abstract concepts, and the author uses extremely complex sentence constructions to tell his story. This is not a book for the faint of heart, it is written with the professional biologist in mind. If you have the strength and the courage, I suggest that you give this book a try. P.S. I am the "reader" from Manchester College in the previous review -- I didn't get my name on that one though.

If you had a complete copy of a dinosaur's DNA and the genetic code, you still would not be able to make a dinosaur or even determine what one looked like. Why? How do animals get their shape and how does shape evolve? In this important book, Nobel laureate Gerald M. Edelman challenges the notion that an understanding of the genetic code and of cell differentiation is sufficient to answer these questions. Rather, he argues, a trio of related issues must also be investigated: the development of form, the evolution of form, and the morphological and functional bases of behavior. Topobiology presents an introduction to molecular embryology and describes a comprehensive hypothesis to account for the evolution and development of animal form.

About the Author Gerald M. Edelman is director of the Neurosciences Institute and chairman of the Department of Neurobiology at the Scripps Research Institute. He received the Nobel Prize for Physiology or Medicine in 1972. He is also the author of *Bright Air, Brilliant Fire*; *Tobiology*; and *The Remembered Present*.