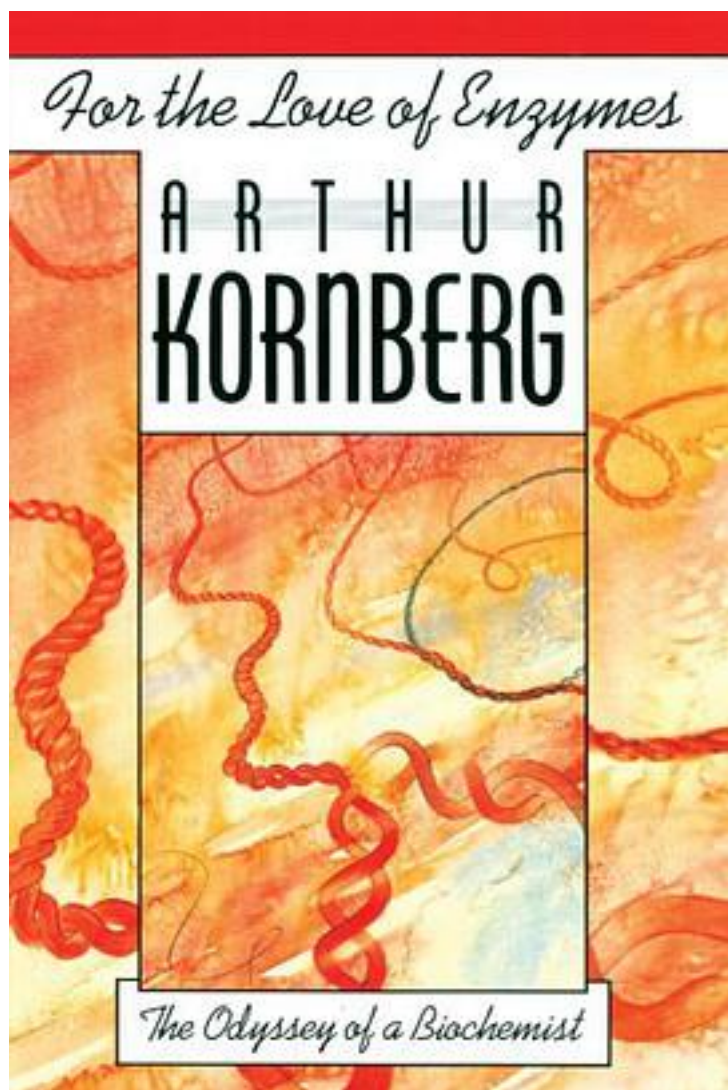


For the Love of Enzymes



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著者:Arthur Kornberg

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In 1645 the Japanese samurai Musashi Miamoto wrote "A Book of Five Rings," which described the attitudes necessary for individual success. Though he was a swordsman, his book was not limited to combat but addressed the much broader question of how to achieve excellence in life through study, discipline, and planning. It is still avidly read in Japan today. Arthur Kornberg's book is a modern-day "Book of Five Rings" that replaces the medium of swordsmanship with that of biochemistry, particularly enzymology. As Kornberg describes his successive research problems, the challenges they presented, and the ultimate accomplishments that resulted, he provides us with a primer in the strategies needed to do scientific work of great significance. Moreover, these strategies are played out in the context of solving some of the great biochemical problems of the twentieth century. The ability to manipulate and alter DNA fired a revolution that forever changed the nature of biology. Arthur Kornberg is a primary architect of that revolution, arguably one of the two or three most important biologists of this time. Prior to Kornberg, genetic information and later DNA were imbued by biologists with an almost vitalistic aura. Kornberg demonstrated that DNA is a molecule synthesized by enzymes, like all other chemical constituents of the cell. More important, he trained a school of scientists who focused on and discovered many of the enzymatic activities that act on DNA. It is these enzymes in particular that allow modern "genetic engineering." "For the Love of Enzymes" does not describe a single lucky or hard-won accomplishment. Rather, it is the story of thirty years of decisive campaigns, nearly all of which led to insights of major significance. In relating his story, Kornberg never avoids the difficult question of "why": why he felt classical nutritional studies had reached a plateau, why he turned to enzymology as a discipline in which the important answers would be found, and why he believes the study of enzymes will grow ever more important as we face the new scientific frontier of brain function. This book will challenge students of biology and chemistry at all levels who want to do important work rather than simply follow popular trends. It will also delight and inform readers who wish to understand how "real" science is done, and to learn of the values that guide one of our greatest researchers.

作者介绍:

阿瑟·科恩伯格 (Arthur Kornberg)，美国生物化学家，1918年3月12日生于纽约。1941年他获得博士学位，1953年任华盛顿大学教授。科恩伯格主要的成就是酶化学。他成功地从大肠杆菌提取液中分离出DNA聚合酶，为此，1959年，科恩伯格与他的老师、西班牙裔美国生物化学家奥乔亚(1905~1993)共同获得了诺贝尔生理学及医学奖。

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A.Kornberg!

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书评

经典生物化学家，也就是如此吧。

1.作为一个天才而睿智的管理者，他创建了生物化学系，这个系的成就无与伦比，并以此证明了一个成见是错误的，那就是今天的科学只有依靠大量的人力和巨大的机器，或者需要其他人的放弃才会取得成绩。 2.科学的时尚与服饰一样变化多端。受政府官...

一直追逐着人类对于自我的最前沿探索，从微生物到维生素到酶到基因再到现在的脑科学！这源自我们对自身的好奇与向往！ Author
Kornberg一位拥有卓越成就的科学家，若不是本书，我真不知生化中那么多记忆负担都来自他的不懈努力。从叶酸到成为酶的钟爱者，这一路不仅让我看到了...

□原业伟
随着酒精灯上的小烧杯淡蓝色的火焰一闪，一片白烟升起，隐没了穿着白大褂的老师。我们知道，这就是中学里做化学试验的经典场景，这也是我们的学校与霍格沃茨魔法学校唯一的共同学科。2011年是联合国宣布的“国际化学年”，随着国际化学年官方网站正式开通，“国...

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