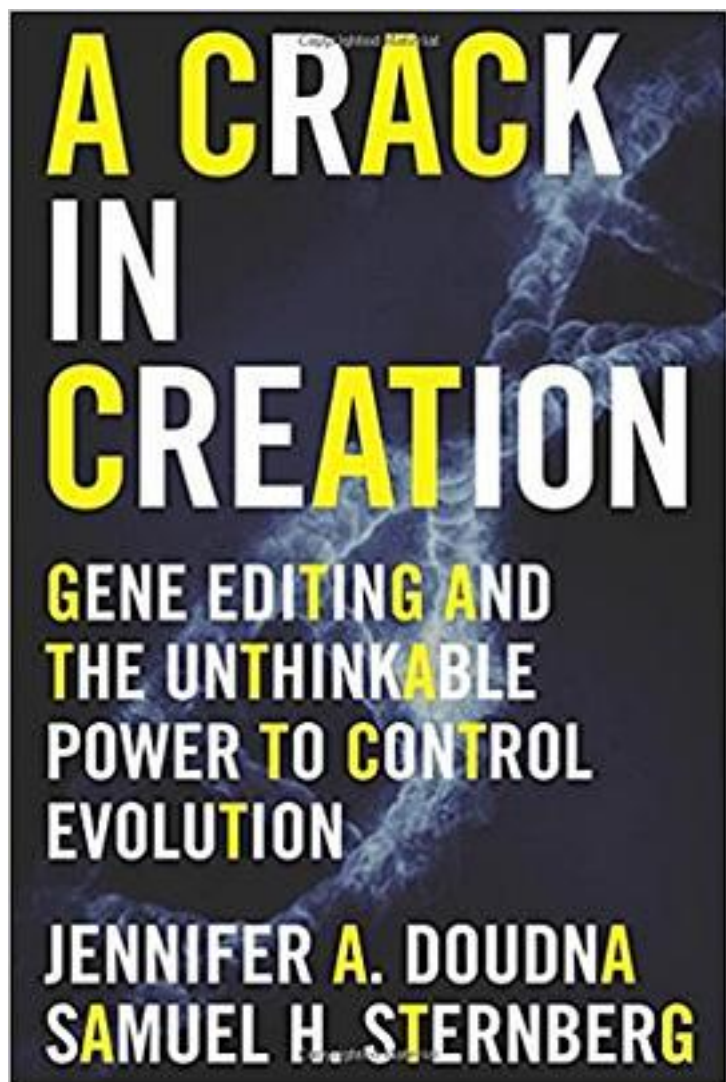


# A Crack in Creation



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Not since the atomic bomb has a technology so alarmed its inventors that they warned the world about its use. That is, until 2015, when biologist Jennifer Doudna called for a worldwide moratorium on the use of the gene-editing tool CRISPR—a revolutionary new technology that she helped create—to make heritable changes in human embryos. The cheapest, simplest, most effective way of manipulating DNA ever known, CRISPR may well give us the cure to HIV, genetic diseases, and some cancers. Yet even the tiniest changes to DNA could have myriad, unforeseeable consequences—to say nothing of the ethical and societal repercussions of intentionally mutating embryos to create “better” humans. Writing with fellow researcher Sam Sternberg, Doudna shares the thrilling story of her discovery and describes the enormous responsibility that comes with the power to rewrite the code of life.

## 作者介绍:

JENNIFER A. DOUDNA, Ph.D. is a professor in the Chemistry and the Molecular and Cell Biology Departments at the University of California, Berkeley, investigator with the Howard Hughes Medical Institute, and researcher in the Molecular Biophysics and Integrated Bioimaging Division at the Lawrence Berkeley National Laboratory. She is internationally recognized as a leading expert on RNA-protein biochemistry, CRISPR biology, and genome engineering. She lives in the Bay Area. SAMUEL H. STERNBERG, Ph.D., is a biochemist and author of numerous high profile scientific publications on CRISPR technology. He is starting his own laboratory at Columbia University, as assistant professor in the Department of Biochemistry and Molecular Biophysics, beginning in 2018. He lives in New York City.

SAMUEL H. STERNBERG, Ph.D., is a biochemist and author of numerous high profile scientific publications on CRISPR technology. He is starting his own laboratory at Columbia University, as assistant professor in the Department of Biochemistry and Molecular Biophysics, beginning in 2018. He lives in New York City.

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## 标签

基因编辑

CRISPR

伦理

基因

科普

医学

30天认知训练

进化论

## 评论

想了解CRISPR必看的科普读物

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前半本聊学术，后半本谈三观，权当英文阅读，前半本告诉我们，苦逼实验最后有多牛逼要看造化看运气，后半本告诉我们，别以为自己比老天爷牛逼，你想改人类基因组随便改好了，大不了改瞎了不敢瞎改，play god 那么容易？表动不动就禁止新技术，那真是特别二逼的想法。

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虽然如此，我也支持张峰团队。他们并不是两个对立面。

-----  
后面写伦理的部分有点太长了 而且有些忘我而不顾及读者感受。

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写得不错。

-----  
Low efficient, high off-target rate.

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杜姨拿奖的预备回忆录，基因编辑终究故事，科学的发现一开始其实是如此平淡无奇的

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## 书评

人类和其他生物一样，一直以来受到自然选择和随机突变的影响，正如理查德道金斯所说，大多数突变都是有害的，少部分突变对生物有益，这部分过程由自然选择进行挑选。  
。现在我们从自然之手手中第一次移交到我们人类手上，基因编辑技术CRISPR，发明人杜德纳和张锋，通过基因编辑我...

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