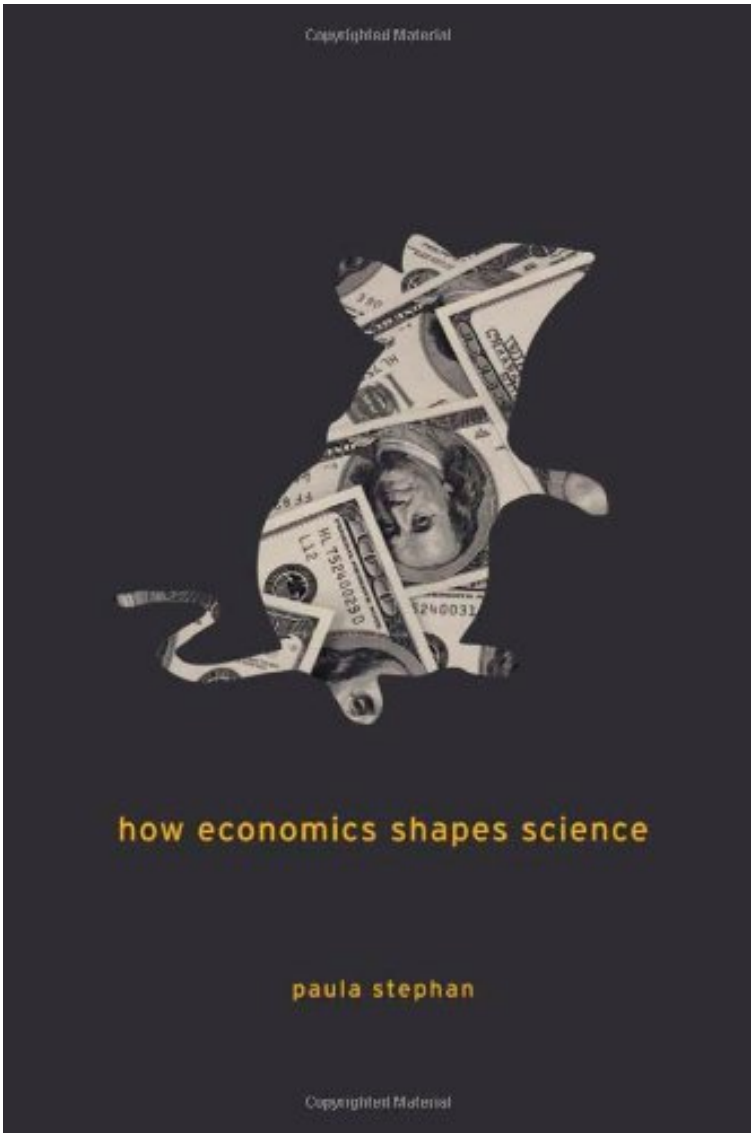
How Economics Shapes Science



Par Paula Stephan
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Par Paula Stephan : How Economics Shapes Science before purchasing it in order to gage whether or not it would be worth my time, and all praised How Economics Shapes Science:

Description :

Prsentation de l'diteurAt a time when science is seen as an engine of economic growth, Paula Stephan brings a keen understanding of the cost-benefit calculations made by individuals and institutions as they compete for resources and reputation in scientific fields. She highlights especially the growing gap between the biomedical sciences and physics/engineering.Revue de presse20120106 A big biomedical lab spends 18 cents a day to keep one lab mouse, amounting to hundreds of thousands of dollars for animals each year. Economist Paula Stephan takes an exhaustive look at how publicly funded science pays such bills, and how this affects research, researchers and the economy. She argues that expanding universities and stagnant budgets have made funders and scientists more risk-averse, and stunted the development of young investigators. Nature 20120209 How Economics Shapes Science should be required reading for all scientists

and students of science, who are increasingly called upon to adopt the language and logic of economics and engage in policy discussions. Paula Stephan (an economist at Georgia State University) makes her case in simple, easy-to-follow language, using timely examples...The book starts by summarizing the case that private industry alone will not invest in the socially optimal level of research, which will ultimately decrease the rate of innovation and lower economic growth. The logic is worth repeating at a time when there are calls for limiting government support for research and researchers face pressures to engage in lower-risk projects. Stephan convincingly argues that monetary incentives increasingly determine the behavior of researchers at the expense of scientists' desire to participate in the joy of solving problems, receive recognition, and obtain a good reputation. -- Maryann Feldman Science 20120309 This volume provides a useful summary of how economics shapes science that is accessible to students and researchers in a variety of disciplines and to policy makers. -- R. B. Emmett Choice 20120401 [An] original and engaging book...Informed, authoritative and thoughtful, Stephan's book will be an invaluable resource for scientists, policymakers and all those working to improve the "science of science and innovation policy" in the U.S., Europe and further afield. -- James Wilsdon Times Higher Education 20120412 [A] rich, data-driven, and nuanced discussion of science and economics...[A] excellent book. Stephan addresses how RD spending is often driven by politics--either geo-politics (the Cold War) or personal politics (biomedical research), and how jobs in the sciences respond accordingly (and how competitive options for smart people have affected job uptake). She also talks about how difficult science and research spending is to measure from an economic efficiency perspective--essentially, because payback on investments can be quite indirect and take decades, choosing between investment options is fraught with the chance for mistakes. And the emerging trend showing that higher-impact science comes from funding entities that evaluate people instead of projects and provides longer-term funding is also covered...This book will have a special place on my shelf, as one of a handful of books that demand to be revisited, referenced, and re-read because there is so much clear and important information to be had, and some definite criticisms of the current system policy --Kent Anderson Scholarly Kitchen 20120411Prsentation de l'diteurAt a time when science is seen as an engine of economic growth, Paula Stephan brings a keen understanding of the cost-benefit calculations made by individuals and institutions as they compete for resources and reputation in scientific fields. She highlights especially the growing gap between the biomedical sciences and physics/engineering.