

**PATENTS, CITATIONS AND INNOVATIONS: A WINDOW ON THE  
KNOWLEDGE ECONOMY**

**MIT PRESS, SUMMER 2002**

**Adam B. Jaffe, Chair, Dept. of Economics, Brandeis University**

**Manuel Trajtenberg, Professor of Economics, Tel Aviv University**

**TABLE OF CONTENTS**

**Foreword** by Paul M. Romer

**The Data Disk:** The book comes with a CD containing the complete  
NBER Patent Citations Database

**I. Introduction**

**II. Conceptual and Methodological Foundations**

2. "A Penny for Your Quotes: Patent Citations and the Value of  
Innovations," Manuel Trajtenberg
3. "University Versus Corporate Patents: A Window on the  
Basicness of Invention," Adam B. Jaffe, Manuel Trajtenberg  
and Rebecca Henderson
4. "How High are the Giants' Shoulders: An Empirical Assessment  
of Knowledge Spillovers and Creative Destruction in a Model  
of Economic Growth," Ricardo J. Caballero and Adam B.  
Jaffe

**III. The Geography of Knowledge Spillovers**

5. "Geographic Localization of Knowledge Spillovers as Evidenced  
by Patent Citations," Adam B. Jaffe, Manuel Trajtenberg and  
Rebecca Henderson
6. "Flows of Knowledge from Universities and Federal Labs:  
Modeling the Flow of Patent Citations over Time and Across  
Institutional and Geographic Boundaries," Adam B. Jaffe  
and Manuel Trajtenberg

7. "International Knowledge Flows: Evidence from Patent Citations," Adam B. Jaffe and Manuel Trajtenberg

#### **IV. Policy-motivated Evaluation of Institutions and Countries**

8. "Universities as a Source of Commercial Technology: A Detailed Analysis of University Patenting, 1965-1988," Adam B. Jaffe, Manuel Trajtenberg and Rebecca Henderson
9. "Evidence from Patents and Patent Citations on the Impact of NASA and Other Federal Labs on Commercial Innovation," Adam B. Jaffe, Michael S. Fogarty and Bruce A. Banks
10. "Reinventing Public R&D: Patent Policy and the Commercialization of National Laboratory Technologies," Adam B. Jaffe and Josh Lerner
11. "Innovation in Israel 1968-97: A Comparative Analysis Using Patent Data," Manuel Trajtenberg

#### **V. The Patents and Citations Data : A Close-up**

12. "The Meaning of Patent Citations: Report on the NBER/Case-Western Reserve Survey of Patentees," Adam B. Jaffe, Manuel Trajtenberg, and Michael S. Fogarty
13. "The NBER Patent Citations Data File: Lessons, Insights and Methodological Tools," Bronwyn H. Hall, Adam B. Jaffe, and Manuel Trajtenberg