

---

## BIBLIOGRAPHY

---

- Alesina, Alberto, and Eliana Ferrara, "The Determinants of Trust," National Bureau of Economic Research, NBER Working Paper 7621, Cambridge, Massachusetts, March 2000.
- American Council on Education, *Working Together, Creating Knowledge: The University-Industry Initiative*, Item No. 309142, Washington, D.C., 2001.
- BankBoston Economics Department, *MIT: The Impact of Innovation*, Boston, Massachusetts, 1997.
- Behrens, Teresa R., and Denis O. Gray, "Unintended Consequences of Cooperative Research: Impact of Industry Sponsorship on Climate for Academic Freedom and Other Graduate Student Outcome," *Research Policy*, Vol. 30, 2001, pp. 179–199.
- Bloom, Gordon F., "A Note on Hicks's Theory of Invention," *The American Economic Review*, Vol. 36, No. 1., March 1946, pp. 83–96.
- Bordogna, Joseph, presentation at the National Science Foundation Partnerships for Innovation Planning Workshop, Arlington, Virginia, March 10, 2000.
- Borrus, Michael, and Jay Stowsky, "Technology Policy and Economic Growth," in Lewis M. Branscomb and James H. Keller (eds.), *Investing in Innovation: Creating a Research and Innovation Policy That Works*, Harvard University Press, Cambridge, Massachusetts, 1998, pp. 40–63.
- Branscomb, Lewis M., "From Science Policy to Research Policy," in Lewis M. Branscomb and James H. Keller (eds.), *Investing in Innovation: Creating a Research and Innovation Policy That Works*,

Harvard University Press, Cambridge, Massachusetts, 1998, pp. 112–142.

Carrincazeaux, Christophe, Yannick Lung, and Alain Rallet, “Proximity and Localisation of Corporate R&D Activities,” *Research Policy*, Vol. 30, 2001, pp. 777–789.

Cozzens, Susan E., *Assessment of Fundamental Science Programs in the Context of the Government Performance and Results Act (GPRA)*, RAND, MR-707.0-OSTP, Santa Monica, California, October 1995.

David, Paul A., and Bronwyn H. Hall, “Heart of Darkness: Modeling Public-Private Funding Interactions Inside the R&D Black Box,” *Research Policy*, Vol. 29, 2000, pp. 1165–1183.

De Graaf, Adriann M., “Government, University, and Industry Linkages,” in National Research Council, Board on Science, Technology, and Economic Policy, *A Review of the Sandia Science and Technology Park Initiative*, National Academy Press, Washington, D.C., 1999, pp. 59–60.

Ember, Lois, “Encouraging Entrepreneurship: Caltech Facilitates High-Tech Start-Up Companies; Pasadena, Private Incubators Nurture Their Developments,” *Chemical and Engineering News*, Vol. 78, No. 32, August 7, 2000, pp. 17–29.

Feller, Irwin, “Discussant,” in National Research Council, Board on Science, Technology, and Economic Policy, *A Review of the Sandia Science and Technology Park Initiative*, National Academy Press, Washington, D.C., 1999, pp. 41–43.

Florida, Richard, “The Role of the University: Leveraging Talent, Not Technology,” *Issues in Science and Technology*, Vol. XV, No. 4, Summer 1999, pp. 67–73.

Fox, Marye Anne, “A University Perspective on Partnerships,” presentation at a National Science Foundation workshop, Partnerships: Building a New Foundation for Innovation, Arlington, Virginia, June 18–19, 2001.

Fountain, Jane E., “Social Capital: A Key Enabler of Innovation,” in Lewis M. Branscomb and James H. Keller (eds.), *Investing in Inno-*

- vation: Creating a Research and Innovation Policy That Works*, Harvard University Press, Cambridge, Massachusetts, 1998, pp. 85–111.
- Freeman, C., “Network of Innovators, A Synthesis of Research Issues,” *Research Policy*, Vol. 20, No. 5, 1991, pp. 499–514.
- Ganz-Brown, C., “Patent Policies to Fine Tune Commercialization of Government-Sponsored University Research,” *Science and Public Policy*, Vol. 26, No. 6, December 1999.
- Glaeser, Edward L., David Laibson, Jose A. Scheinkman, Christine L. Soutter, “What is Social Capital? The Determinants of Trust and Trustworthiness,” National Bureau of Economic Research, NBER Working Paper 7216, Cambridge, Massachusetts, July 1999.
- Good, Mary, “International View,” presentation at a National Science Foundation workshop, Partnerships: Building a New Foundation for Innovation, Arlington, Virginia, June 18–19, 2001.
- Government-University-Industry Research Roundtable, *Overcoming Barriers to Collaborative Research: Report of a Workshop*, National Academy Press, Washington, D.C., 1999.
- Griliches, Zvi, “The Search for R&D Spillovers,” NBER Working Paper 3768, Cambridge, Massachusetts, 1991.
- Griliches, Zvi, “R&D and Productivity: Econometric Results and Measurement Issues,” in Paul Stoneman (ed.), *Handbook of the Economics of Innovation & Technological Change*, Basil Blackwell Ltd., Oxford, 1995, pp. 52–89.
- Guston, David H., “Technology Transfer and the Use of CRADAs at the National Institutes of Health,” in Lewis M. Branscomb and James H. Keller (eds.), *Investing in Innovation: Creating a Research and Innovation Policy That Works*, Harvard University Press, Cambridge, Massachusetts, 1998, pp. 221–249.
- Hanushek, Eric A., and Byung Nak Song, “The Dynamics of Postwar Industrial Location,” *The Review of Economics and Statistics*, Vol. 60, No. 4, November 1978, pp. 515–522.

Henderson, R., A. Jaffe, and M. Trajtenberg, "Universities as a Source of Commercial Technology: A Detailed Analysis of University Patenting, 1965–88," *The Review of Economics and Statistics*, Vol. LXXX, No. 1, February 1998, pp. 119–127.

Hicks, Diana, Tony Breitzman, Dominic Olivastro, and Kimberly Hamilton, "The Changing Composition of Innovative Activity in the U.S.—A Portrait Based on Patent Analysis," *Policy Research*, Vol. 30, 2001, pp. 681–703.

Hill, Christopher T., "The Advanced Technology Program: Opportunities for Enhancement," in Lewis M. Branscomb and James H. Keller (eds.), *Investing in Innovation: Creating a Research and Innovation Policy That Works*, Harvard University Press, Cambridge, Massachusetts, 1998, pp. 144–173.

Hurt, John, "Overview of the Partnerships for Innovation Program," presentation at a National Science Foundation workshop, Partnerships: Building a New Foundation for Innovation, Arlington, Virginia, June 18–19, 2001.

Industrial Research Institute, Government-University-Industry Research Roundtable, and Council on Competitiveness, *Industry-University Research Collaborations: Report of a Workshop*, National Academy Press, Washington, D.C., 1996.

Jaffe, Adam B., "Measurement Issues," in Lewis M. Branscomb and James H. Keller (eds.), *Investing in Innovation: Creating a Research and Innovation Policy That Works*, Harvard University Press, Cambridge, Massachusetts, 1998, pp. 64–84.

Kaufmann, Alexander, and Franz Todtling, "Science-Industry Interaction in the Process of Innovation: The Importance of Boundary-Crossing Between Systems," *Research Policy*, Vol. 30, 2001, pp. 791–804.

Keller, Wolfgang, "The Geography and Channels of Diffusion at the World's Technology Frontier," National Bureau of Economic Research, NBER Working Paper 8150, Cambridge, Massachusetts, March 2001.

Kelley, Maryellen, "Lessons from the Advanced Technology Program," in National Research Council, Board on Science, Technol-

- ogy, and Economic Policy, *The Small Business Innovation Research Program: Challenges and Opportunities*, National Academy Press, Washington, D.C., 1999, pp. 93–95.
- Love, James H., and Stephen Roper, “Location and Network Effects on Innovation Success: Evidence for UK, German and Irish Manufacturing Plants,” *Research Policy*, Vol. 30, 2001, pp. 643–661.
- Luger, Michael, “The Research Triangle Experience,” in National Research Council, Board on Science, Technology, and Economic Policy, *A Review of the Sandia Science and Technology Park Initiative*, National Academy Press, Washington, D.C., 1999, pp. 35–38 and 92–101.
- Luger, M. I., and H. A. Goldstein, *Technology in the Garden: Research Parks and Regional Economic Development*, University of North Carolina Press, Chapel Hill, North Carolina, 1991.
- Malecki, Edward J., *Technology and Economic Development: The Dynamics of Local, Regional and National Competitiveness*, 2d Edition, Addison Wesley Longman, London, 1997.
- Malecki, Edward J., “The Conditions for Success,” National Research Council, Board on Science, Technology, and Economic Policy, *A Review of the Sandia Science and Technology Park Initiative*, National Academy Press, Washington, D.C., 1999, pp. 56–58.
- Mansfield, Edwin, “Academic Research and Industrial Innovation,” *Research Policy*, Vol. 20, No. 1, February 1991a, pp. 1–12.
- Mansfield, Edwin, “Social Returns from R&D: Findings, Methods, and Limitations,” *Research, Technology, and Management*, Vol. 34, No. 6, November–December 1991b, pp. 24–27.
- Mazzoleni, R., and R. Nelson, “The Benefits and Costs of Strong Patent Protection: A Contribution to the Current Debate,” *Research Policy*, Vol. 27, 1998, pp. 113–124.
- Milbergs, Egils, “Industry Perspective on Partnerships,” presentation at a National Science Foundation workshop, Partnerships: Building a New Foundation for Innovation, Arlington, Virginia, June 18–19, 2001, available at <http://www.rand.org/scitech/stpi/Partnerships/milbergs.pdf>.

Mowery, David C., "The Roles and Contributions of R&D Collaboration: Matching Policy Goals and Design," prepared for hearings of the National Science Policy Study, Committee on Science, U.S. House of Representatives, Washington, D.C., March 11, 1998.

Mowery, D., R. Nelson, B. Sampart, and A. Ziedonis. "The Growth of Patenting and Licensing by U.S. Universities: An Assessment of the Effects of the Bayh-Dole Act of 1980," *Research Policy*, in press.

National Research Council, Board on Science, Technology, and Economic Policy, *The Small Business Innovation Research Program: Challenges and Opportunities*, National Academy Press, Washington, D.C., 1999.

National Research Council, Board on Science, Technology, and Economic Policy, *A Review of the Sandia Science and Technology Park Initiative*, National Academy Press, Washington, D.C., 1999.

National Research Council, Committee on Visionary Manufacturing Challenges, Board on Manufacturing and Engineering Design, Commission on Engineering and Technical Systems, *Visionary Manufacturing Challenges for 2020*, National Academy Press, Washington, D.C., 1998.

National Science Board, "Total Expenditures for Industrial R&D (Financed by Company, Federal, and Other Funds), by Industry and Size of Company: 1985-97," *Science and Engineering Indicators 2000*, Washington, D.C., 2000.

National Science Foundation, *Retention of the Best Science and Engineering Graduates in Science and Engineering*, NSF 99-321, Washington, D.C., January 1999.

National Science Foundation, Office of Legislative and Public Affairs, "NSF Recommends Funding for 24 Partnerships to Foster Local Innovation," news release No. NSF PR-00-68, September 29, 2000.

National Science Foundation, *FY 2002 GPRA Performance Plan*, Washington, D.C., April 2001.

Norling, Parry, "Structuring and Managing R&D Work Processes—Why Bother?" *CHEMTECH*, October 1997, pp. 12-16.

- O'Brien, Thomas, and Terry Fadem, "Identifying New Business Opportunities," *Research-Technology Management*, September-October 1999, pp. 15-19.
- Popper, Steven W., *Economic Approaches to Measuring the Performance and Benefits of Fundamental Science*, RAND, MR-708.0-OSTP, Santa Monica, California, October 1995.
- Popper, Steven W., Caroline S. Wagner, and Eric V. Larson, *New Forces at Work: Industry Views Critical Technologies*, RAND, MR-1008-OSTP, Santa Monica, California, 1998.
- Popper, Steven W., and Caroline S. Wagner, *New Foundations for Growth: The U.S. Innovation System Today and Tomorrow; An Executive Summary*, RAND, MR-1338.0/1-OSTP, Santa Monica, California, January 2001.
- Porter, Michael, *The Competitive Advantage of Nations*, Free Press, New York, 1990.
- Roberts, Edward, and Charles Berry, "Entering New Businesses: Selecting Strategies for Success," *Sloan Management Review*, Spring 1985, pp. 3-17.
- Salter, Ammon J., and Ben R. Martin, "The Economic Benefits of Publicly Funded Basic Research: A Critical Review," *Research Policy*, Vol. 30, 2001, pp. 509-532.
- Saxenian, AnnaLee, *Regional Advantage: Culture and Competition in Silicon Valley and Route 128*, Harvard University Press, Cambridge, Massachusetts, 1996.
- Schmandt, Jurgen, "The Austin Experience," in National Research Council, Board on Science, Technology, and Economic Policy, *A Review of the Sandia Science and Technology Park Initiative*, National Academy Press, Washington, D.C., 1999, pp. 39-40.
- Shapira, Philip, "Manufacturing Extension: Performance, Challenges, and Policy Issues," in Lewis M. Branscomb and James H. Keller (eds.), *Investing in Innovation: Creating a Research and Innovation Policy That Works*, Harvard University Press, Cambridge, Massachusetts, 1998, pp. 250-275.

- Stein, Jeremy C., "Waves of Creative Destruction: Firm-Specific Learning-by-Doing and the Dynamics of Innovation," *The Review of Economic Studies*, Vol. 64, No. 2, April 1997, pp. 265–288.
- Sternberg, Rolf, "The Impact of Innovation Centres on Small Technology-Based Firms: The Example of the Federal Republic of Germany," *Small Business Economics*, Vol. 2, No. 2, 1990, pp. 105–118.
- Stevens, Gregory, and John Burley, "3000 Raw Ideas = 1 Commercial Success," *Research-Technology Management*, Vol. 40, No. 3, May–June 1997, pp. 16–27.
- Stokes, Donald, *Pasteur's Quadrant*, Brookings Institution Press, Washington, D.C., 1997.
- Swann, G. M., M. Prevezer, and D. Stout, "The Dynamics of Industrial Clustering; International Comparisons in Computing and Biotechnology," Oxford University Press, Oxford, 1998.
- Wallsten, Scott J., "The Effects of Government-Industry R&D Programs on Private R&D: The Case of the Small Business Innovation Research Program," *RAND Journal of Economics*, Vol. 31, No. 1, Spring 2000, pp. 82–100.
- Wasserman, Ed, "Academic Entrepreneurs," *Chemical and Engineering News*, Vol. 78, No. 47, November 2000, p. 56.
- "What Is the State of the New Economy," *Fast Company*, Issue 50, September 2001, p. 100.