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Research Policy

Volume 20, Issue 3, June 1991, Pages 237-249

The governance of innovation: Vertical integration and collaborative arrangements in the biotechnology industry

Gary P. Pisano

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[https://doi.org/10.1016/0048-7333\(91\)90054-T](https://doi.org/10.1016/0048-7333(91)90054-T)

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Abstract

This paper analyzes and compares the various governance structures through which new biotechnologies have been developed and commercialized over the past decade and a half. These governance structures include (1) forward vertical integration by new biotechnology firms (NBFs) from R&D into manufacturing and marketing; (2) backward integration by established firms from downstream industries into biotechnology R&D; and (3) various forms of collaboration between NBFs and established firms involving R&D, technology transfer, production, and distribution. The institutional, technological, and organizational forces affecting the incidence of these governance structures over time are discussed and examined with data from several sources.





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The author would like to thank Kim Clark, Therese Flaherty, David Teece, and the reviewers for helpful comments on earlier drafts of this paper and Paul Mang and Mike Stevenson for their able assistance. The financial support of the Harvard Business School Division of Research and the National Science Foundation (grant No. SRS-8410556) is gratefully acknowledged.

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