Industry-sponsored Research: A Legal Perspective

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Rogers, Hoge, and Hills, New York

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Perhaps the title of my talk should, more accurately, have been, "The Commercialization of Biomedical Research: A Rambling Discourse in Spotting Legal Issues."

As you know, just a few weeks ago, the Massachusetts General Hospital announced a long-term pact with a German pharmaceutical firm, Hoechst, A.G., to pursue basic research in molecular biology. Earlier, Harvard and Monsanto, and Exxon and MIT had entered into agreements for sponsored research. Other institutions will no doubt follow suit. Indeed, the new links being established between industry and academia have recently been heralded as one of the major scientific developments of the '80's. 3

As with all areas in a state of flux, it is not possible to make categorical statements about how the law is apt to influence the developing relationships between academia and industry. This is especially true with regard to governmental regulation of industry-sponsored biomedical research. Next week a Congressional subcommittee is holding hearings into the whole issue of the commercialization of research.4 Various legislation is being considered or has already been enacted on the state level.5 And even some cities have adopted regulations purporting to restrict the conduct of DNA research.6 These laws and regulations, if adopted, will have a significant impact on privately-funded research; but, for the time being, we will have to abide the event. Accordingly, the most I can hope to do is provide a brief overview of the more significant developments in the area, and point out some of the legal ramifications of the present trend toward a greater commercial presence on campus. Then, if time permits, I will touch upon a few recent regulatory developments affecting research in the groves of academia.

The first point I should like to make is that it is all but inevitable that industry sponsorship of research, in one form or another, will play an increasingly important role in funding university research activities. Since World War II, the great bulk of biomedical research in this country has been carried out in university medical and dental schools and related research institutes, and has been funded principally by the Federal Government. While the Federal spigot has not been turned off, it probably has topped out. at least in real dollar terms, in funding basic research. Federal grants and contracts at one leading university have shrunk from a peak of nearly 40% of departmental operating income in the "hey days" of the Great Society to a present level of about 25%,7 As inflation continues, and operating expenses continue to rise, universities will have to turn to new sources of funding in order to maintain quality and to be able to compete with private industry for the services of top faculty. The most likely source of such additional funding is private capital.

Dr. Bernard Davis, a Harvard professor, recently noted in the New England Journal of Medicine that, "[t] here are surely risks in developing industrial connections, but they must be balanced against increasing financial insecurity of universities today and against a monolithic dependence on an often unsympathetic government." There are unquestioned advantages for the university as well as private industry in industry funding of research. First, such funding provides an invaluable counterbalance to the universities' present near-total dependence on Federal Government funding. Second, it is flexible. The variety of the arrangements possible between corporations and academic institutions is limited only by the imagination of the contracting parties. Third, such research should be comparatively free of the red tape and the mountains of paperwork that increasingly bog down Federally-funded projects. Richard Muller, a Professor of Physics at the University of California at Berkeley, colorfully described this burden in an article entitled, "Innovative and Scientific Funding" in the August, 1980, issue of Science magazine: 9

"When I began research in 1965, our research groupoften received more than the minimum support necessary for our projects. . .by 1972 our proposals were
scrutinized to ensure that we received no more than the
necessary minimum. . .by 1976 few of our proposals
received enough money even to sustain a project, and we
had to obtain support from more than one agency. Much
of the time we had devoted to thinking about new projects was now spent writing and polishing proposals. . .
the most fundamental mistake made by funding agencies
is in assuming that the ability to write good proposals
is equivalent to the ability to accomplish good research."

is equivalent to the ability to accomplish good research."

Private sponsorship of research—according to Adam Smith, at any rate—should turn that equation around and place the emphasis back where it belongs—on good research.

Finally, whatever the problems that arise from the injection of the profit motive into university laboratories, they are not likely to be avoided simply by a university's abstention from privately-sponsored research projects. Faculty members at a number of universities are already involved as investors in, or employees of, private corporations engaged in research-for-profit. Microbiologist Jonathan Beckwith was recently quoted in Time as saying that, "I already know of several. . . universities where people within the same department won't communicate with one another because they are directors of competing companies outside the university."10 The possibilities of conflicts of interest and the dis-incentives to free exchange of information that arise when professors are acting as officers of private corporations (while at the same time continuing to teach) cannot be ignored. Moreover, the association of a professor turned entrepreneur with a prestigious university no doubt adds luster to his new business, which often translates into additional dollars for the professor. The university, however, gets nothing-except, perhaps, a blowto its good name if the new business proves a flop.

Therefore, it is clear that universities have no choice but to deal with these conflict problems. And one commonsense way to do it is for the university itself to articulate a policy and actively promote industry-sponsored research on campus, while at the same time placing some restrictions on faculty use of the university name in connection with private money-making ventures which are not directly sanctioned by the university.

Universities, in order to protect their own interest, may also have to adopt a get-tough policy with respect to the unauthorized commercial use of research data generated

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- 1. Understanding the eBook Sponsored Research In The History Of Art 19851986 And 19861987 006
 - The Rise of Digital Reading Sponsored Research In The History Of Art 19851986 And 19861987 006
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Sponsored Research In The History Of Art 19851986 And 19861987 006
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Sponsored Research In The History Of Art 19851986 And 19861987 006
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Sponsored Research In The History Of Art 19851986 And 19861987 006
 - Personalized Recommendations
 - Sponsored Research In The History Of Art 19851986 And 19861987 006 User Reviews and Ratings

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 - Sponsored Research In The History Of Art 19851986 And 19861987 006 Budget-Friendly Options
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 - Sponsored Research In The History Of Art 19851986 And 19861987 006 Compatibility with Devices
 - Sponsored Research In The History Of Art 19851986 And 19861987 006 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sponsored Research In The History Of Art 19851986 And 19861987 006
 - Highlighting and Note-Taking Sponsored Research In The History Of Art 19851986 And 19861987 006
 - Interactive Elements Sponsored Research In The History Of Art 19851986 And 19861987 006
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - o Following Authors and Publishers Sponsored Research In The History Of Art 19851986 And 19861987 006
- 9. Balancing eBooks and Physical Books Sponsored Research In The History Of Art 19851986 And 19861987 006
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Sponsored Research In The History Of Art 19851986 And 19861987 006
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Sponsored Research In The History Of Art 19851986 And 19861987 006
 - Setting Reading Goals Sponsored Research In The History Of Art 19851986 And 19861987 006
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sponsored Research In The History Of Art 19851986 And 19861987 006
 - o Fact-Checking eBook Content of Sponsored Research In The History Of Art 19851986 And 19861987 006
 - Distinguishing Credible Sources

- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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web 20 makey makey projects for the evil genius written by two school librarians this book provides ideas for physical builds and coding for new and reluctant coders that are easily achieved by middle school and high school aged youth