

Biotech Funding Trends

Insights from Entrepreneurs and Investors



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The Author

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For my parents who were the most important teachers during much of my own development

"It is not the strongest of the species that survive, nor the most intelligent, but the ones most responsive to change." (Charles Darwin)

Preface

The European biotech industry has long lagged behind its US counterpart. For most of Europe, the same holds true for private equity and venture capital (VC) spending on innovative start-ups. In recent years, however, the European biotech industry has improved its competitive position vis-à-vis the US, and so has the development of the private equity and VC market. Despite this positive trend, only a small fraction of available capital is invested in biotech start-ups – probably because there is hardly an area more complex, more globally oriented, more time-consuming, and more risky than biotech. As a result, many biotech start-ups are still struggling for survival, particularly in cultures that are less entrepreneurially and private-equity driven.

Has venture capital indeed developed into the dominant financing form for biotech, as it had for other start-up industries, such as information technology? How do above trends affect the interaction between European entrepreneurs, venture capitalists, and other investors? Is the value of venture capital perceived differently between entrepreneurs and investors? Are there any other important financial tools for biotech start-ups? What are the most important advantages and shortcomings of the different financing forms available? What makes the ideal entrepreneur or investor? Why do so many biotech start-ups fail? Can improved communication between entrepreneurs and their investors as well as among investors themselves help foster mutual understanding and lead to more successful long-term partnerships?

Answers to these and other questions about the interpersonal and financial aspects of starting a biotech company were obtained by conducting qualitative interviews with three groups of interview partners, i.e., entrepreneurs, venture capitalists, and other investors. The results of this prospective research study are reported in this book. Entrepreneurs and venture capitalists both inhabit two complex and differing ecosystems with many important, but often opaque, rules and interactions. In view of their different backgrounds, entrepreneurs and investors need to first find a way to understand – and begin to use – the language spoken by their respective counterparts. Interests between different groups of investors, too, can differ substantially. It is therefore nothing short of a challenge to reconcile the often diverging interests of all key players involved in starting a biotech company.

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By describing the characteristics, beliefs, and expectations of each of these groups, this book intends to support both entrepreneurs and investors in getting along more successfully with each other. At the end of the day, finding the most suitable partner and building a relationship based on mutual understanding greatly increases the chances of a biotech start-up to succeed in a fiercely fought-over market.

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on this book, I was able to follow their recommendations in so many different ways.

Therefore, dear reader, please consider this piece of work a heartfelt thank you to my instructor, to my many interview partners, and to my family and friends. Thank you all – and please enjoy reading!

Vienna, July 2008

Alexandra Carina Gruber

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Executive Summary

The European biotech industry has long lagged behind its US counterpart. For most of Europe, the same was true for private equity and venture capital spending on innovative start-ups. In recent years, however, the European biotech industry has improved its competitive position vis-à-vis the US, and so has the development of the private equity and venture capital market. Despite this positive trend, only a small fraction of available capital is invested in biotech – probably because there is hardly an area more complex, more globally oriented, more time-consuming, and more risky. As a result, many biotech start-ups today are still struggling for survival, particularly in cultures that are less entrepreneurially and private-equity driven, such as Austria and Germany, where there is still an evident gap between seed and early-stage financing. Considering the long lead times involved in biotechnological research and development, the unwillingness of venture capitalists to fund early development may largely be due to start-ups being unable to propose viable exits. At the same time, it has become tougher for companies to raise venture capital, as consolidation has thinned the ranks of venture capital firms.

This book focuses on two counteracting trends: One is the private equity and venture capital spending boom and the increasing number of biotech start-ups with strong product pipelines. At the same time, compared to other industries, the amount of venture capital spent on biotech start-ups is still limited.

In general, each development phase of a young company is financed by specific types of investors. In the preseed and seed phases, financing in many cases starts with the 'three Fs' – family, friends, and fools. After that, it is usually the government that steps in with grants and loans, followed by business angels and early-stage venture capitalists. In later development stages and as capital requirements increase, strategic alliances with corporate companies are key to success, as are deals with late-stage venture capitalists or banks. The last link in the financing chain of a biotech start-up is its exit, usually in form of an initial public offering (IPO), trade sale, or management buy-out.

Based on the general financing matrix for start-up companies and given the complexity of biotech development, the primary question of this survey was whether a biotech start-up went through the same development phases and was financed by

Biotech Funding Trends: Insights from Entrepreneurs and Investors. Alexandra Carina Gruber Copyright © 2009 WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim ISBN: 978-3-527-32435-4 the same types of investors as other innovative start-up companies, such as IT or industrial product companies. Do all biotech companies share the same financing model? What do investors think about the relative importance of available financing options? Which financing models are used in early-stage start-ups, and which are used in later stages? What do biotech entrepreneurs and investors consider to be the major advantages and drawbacks of available financing sources? How can the gap between seed and follow-on financing be closed? Are there any new and creative financing approaches available to young biotech companies? What do entrepreneurs and investors think about the different exit scenarios available?

Another focus of this project was to determine what the interpersonal relationships and alliances in the field of biotechnology looked like, what the characteristics of the individual key players were, and how they interacted with one another. How can early-and late-stage alliances be set up most successfully and what is expected of an investor to best support a young biotech company? How can networking between the individual players be intensified and how significant are such networks? Why have many biotechnology start-ups failed?

To answer these questions, standardized qualitative interviews were carried out with three groups of interview partners, i.e., entrepreneurs, venture capitalists, and investors other than venture capitalists. The third group of other investors was considered a control group of sorts, because they are usually good observers of the relationship between the entrepreneur and venture capitalist. Analysis of the available funding and networking options and their relative importance from the perspectives of the major players in this industry finally enabled practical guidelines for new entrepreneurs and investors to be developed, giving insight into the lessons learned by their peers who had gone before them and helping improve mutual understanding between the parties involved in the successful launch of a biotechnology company.

In terms of the strengths and abilities required of an entrepreneur, views across groups were surprisingly homogeneous, considering that entrepreneurs and investors come from two different worlds - science and business - potentially making communication between the two something of a challenge. The most important attributes of an entrepreneur were leadership and interpersonal skills, followed by experience, knowledge, and conviction. When starting a company, it will be beneficial for the entrepreneur to acquire management skills to better understand the mechanisms behind a business plan and the interplay of the various forces driving an enterprise, such as market, competition, and pricing. From the very outset, the vision of the entrepreneur should be to establish a business which fulfils an underserved market need and which is global and sustainable. Later on, as the company structure becomes more diversified, complex, and demanding, additional staff with complementary skills will have to come on board to lead the company into the next development phase. Different development stages call for different skill sets to have the company value increase in the most effective and sustainable manner. Failure of any member of the management team to understand this may at times require tough personnel decisions to be taken and management to be reshuffled. Delaying such decisions may put the success of the entire company on the line.