In its work on sleeping sickness, malaria, tuberculosis, and other diseases, the Bill & Melinda Gates Foundation noticed that many of its global health partners were getting promising results from their work with a small biotech company in Palo Alto, Calif. Whereas most biotech companies looked for carbon molecules, Anacor Pharmaceuticals Inc. had found a novel way to develop drugs based on boron and precisely target them in the human body.

In a partnership with the neglected disease initiative of Médecins Sans Frontières, Anacor had developed a promising drug for sleeping sickness, which affects people living in three dozen African countries. All told, a half-dozen Gates Foundation-funded partners, including the Medicines for Malaria Venture, the TB Alliance, and OneWorld Health, had worked with Anacor to evaluate the potential of boron-based compounds.

That progress caught the attention of the Gates Foundation just as its global health team was shifting its drug-discovery strategy away from disease-specific initiatives. Instead, the foundation was looking for partners with the best technology platforms that could be applied broadly across a range of diseases in the hope of finding promising candidates for drug development.

To gain access to the company's unique platform for the benefit of neglected diseases, the Gates Foundation in 2013 reached an agreement with Anacor for a broad research program, ultimately funded with $18.3 million in contracts. The agreement focused the boron platform on developing new drugs for tuberculosis, river blindness, lymphatic filariasis (commonly known as elephantiasis), and other diseases.

Once the research project came into focus, the challenge was structuring the financing. The research funding provided Anacor with non-dilutive capital to expand its early-stage efforts in global health. But the company was also looking for a broader equity investment from the Gates Foundation. Helping seal the deal was an additional $5 million investment in Anacor’s Nasdaq-traded common stock that gave the foundation a 2 percent equity stake in the company. It was the foundation’s first program-related investment (PRI) in a publicly traded company.

GLOBAL ACCESS
The Gates Foundation’s investment came further while addressing the unmet needs of neglected diseases. The partnership would also provide entry to the foundation’s network of researchers.

Under the proposed three-year research agreement, Anacor would focus on developing drugs for tuberculosis, river blindness, and elephantiasis, diseases affecting millions of people in the developing world.
The contract called for the discovery of two preclinical drug candidates for macrofilaricides, an adult worm-killing drug, and one advanced lead compound for tuberculosis. The team would later add another target disease, cryptosporidiosis, a leading cause of pediatric death due to diarrhea in the developing world.

There were opportunity costs to pursuing such research, however. The Gates Foundation’s research proposal would commit Anacor to three years of research that was unlikely to yield profitable products. There are market-based reasons that tuberculosis remains a human catastrophe that has infected nearly a third of the planet and kills 1.5 million people each year.

“Anyone who is familiar with TB research and development realizes there hasn’t been very much activity in the past 40 years because it’s extremely difficult,” says Eric Easom, head of neglected diseases at Anacor. “TB drugs are not often viewed as commercial drivers for large pharmaceutical companies.” Even if a successful tuberculosis drug could achieve revenues meaningful to a biotechnology startup, he says, “It may not be worth the opportunity cost for the major players in the pharmaceutical industry.”

Having the Gates Foundation on board as a shareholder would also send a positive signal to the public markets about the value of Anacor’s technology. Equity would provide a fresh source of financing to the company, and gaining a $5 million commitment from a single investor was an attractive proposition.

“I thought it was important for the Gates Foundation to make an investment. If we didn’t have the equity investment, I didn’t think the company would get over the threshold and do the deal,” says venture capitalist Paul Klingenstein, a founder and managing director at Aberdare Ventures, who was on Anacor’s board at the time of the company’s investment. “We were very slow to embrace any of the non-commercial disease targets, without understanding the benefits to Anacor.”

In the end, says Klingenstein, “The company determined that the transaction was in the best interests of Anacor and its shareholders and we did it.”

From the Gates Foundation’s perspective, an equity investment in Anacor’s core platform would help the foundation secure “global access” rights to any products developed for the neglected diseases. The legally binding rights were outlined in a side-letter agreement that required Anacor to sell the products produced with foundation funding at an affordable price in developing countries. Anacor would also make its expanded library of boron compounds available to the Gates Foundation as well as academic, governmental, and nonprofit researchers. Such rights are often easier to get through an equity investment than through grants, says David Rossow, a program investment officer at the foundation.

“It was our team’s belief that this was a novel platform,” Rossow says. “Anacor also had an interest in and passion for neglected diseases. And because they were a relatively small biotech company, they were willing to work with the foundation.”

“Companies tend to massively overvalue their intellectual property,” he explains. “If we said, ‘We want to license your IP on these targets, in these countries,’ they would likely demand more than the IP is worth.”

WIN–WIN
Anacor’s share price, which had been drifting downward, rose modestly on the news of the Gates Foundation’s investment. The subsequent run-up in Anacor’s share price had little to do with the company’s work in global health or with Anacor’s partnership with the foundation.

Anacor made steady progress on the research effort. Six months after the Gates Foundation’s investment, Anacor was designing and adding more than a compound a week to its boron-compound library, ultimately creating 900 new molecules with drug potential. The company worked with technical experts at the foundation to evaluate extremely early in vitro and in vivo data to identify compounds with promise against river blindness and elephantiasis. Last year, Anacor allowed Gates Foundation partners to evaluate much of its boron-compound library to determine whether these molecules have potential against priority target diseases.

Co incidentally, Anacor’s stock market performance in the same period was driven by progress in bringing its late-stage commercial drug assets to market. First, the company got a favorable ruling in its arbitration with Valeant Pharmaceuticals and reached a settlement agreement in which Valeant paid Anacor $814 million. Investors now believed Anacor had the cash to complete its development work and bring Kerydin, its lead product development candidate, to market; its stock rose more than 20 percent in the month following the announcement.

In July 2014, Anacor announced that it had entered into an agreement with a division of Sandoz Inc. to distribute and commercialize Kerydin in the United States. And last year, Anacor announced positive phase 3 clinical results for another product candidate, crisaborole, for the treatment of atopic dermatitis. The stock soared 65 percent the week following the announcement.

The Gates Foundation had stumbled onto a significant financial return.

Since that time, progress has continued on the neglected-disease research work. Anacor has identified molecules for the potential treatment of river blindness and elephantiasis. The company also identified promising antibacterial compounds for the treatment of tuberculosis. Work continues on cryptosporidiosis.

With the charitable goals of the investment ensured, the Gates Foundation was free to sell the bulk of its equity stake, with the exception of a small position that secures access to the firm’s library of boron compounds through 2018. The foundation sold all but 1 percent of its holdings in November 2015.

In selling, the Gates Foundation gained $86.7 million, or approximately 17 times its initial investment. In the two-and-a-half years the foundation held its stake, Anacor’s market value soared from $221 million to roughly $4.5 billion.

UNEXPECTED CHALLENGE
Traditional venture investors typically face
Private Financing for Public Education

Investing in collaboration between public school districts and charter school networks.

BY JESSICA POTHERING

In the back of the auditorium on opening day at Blackstone Valley Prep middle school, a petite woman with closely cropped gray hair seemed an unlikely pioneer of a new model of public school financing.

In the hallways, middle-school students slammed their freshly painted blue lockers and rushed to get into their classrooms before the first bell of the first school year at the newest school in Central Falls, R.I., a down-at-the-heels factory town of fewer than 20,000 people.

Gray skies and drizzling rain didn’t dampen the mood as parents, teachers, administrators, and city and state officials toasted an unprecedented collaboration between a traditional public school district and a network of charter schools. For a moment at least, it seemed that district and charter schools—public schools serving the same families and communities—could not only coexist, but support one another.

Frances Gallo, the former superintendent of Central Falls, did not speak at the opening ceremonies. Under Gallo’s leadership, and against enormous pressure from the teachers’ union, Central Falls became the first school district in the United States to sign a facilities investment agreement as part of a broader District-Charter Compact.

After the event, Gallo explained why she bucked the opposition to welcome charter schools. “I felt I was everyone’s superintendent,” says Gallo, her voice rising. Nearby districts have been attracted to Central Falls’ progress, and more than 20 District-Charter Compacts have been signed across the country, making the vitriol and even death threats she received more tolerable.

The decade-long battle over the expansion of charter schools—public schools operated outside of the supervision and requirements of traditional school districts—has been fueled by competition for scarce education funding. The District-Charter Compacts, supported with $40 million from the Bill & Melinda Gates Foundation, aim instead to share resources and expand the availability of financing while promoting collaboration between the two sectors.

The compacts are the Gates Foundation’s latest strategy in a long quest to improve access to high-quality K-12 education. At the core of the foundation’s facilities strategy are new financing mechanisms to catalyze private financing for public education, strengthening not only the emerging networks of high-performing charter schools, but the resource-strapped public school districts that serve the same communities. In addition to grants, the foundation has provided capital to finance charter school construction on public property and even in former district schools. The compact also obligates charter schools to help the district with teacher training and curriculum and the district to make resources available equitably.

Blackstone Valley Prep is a nonprofit charter school network with 1,400 students that has opened an elementary school and four middle-school campuses in Rhode Island. Its two new facilities in Central Falls are the first schools to open through the new financing strategy. The Gates Foundation made a 10-year, $10 million loan to Civic Builders, a nonprofit charter school facilities developer, to be used for the proj-

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