MONDAY FEB. 13, 2012

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Better Late Than Never

Science, Rare Disease Push **Help Developmental Disorders**

Bv Anette Breindl Science Editor

In its last issue of the year. Science – one of the premier journals for peer-reviewed scientific research - published both what it considers to be the biggest breakthrough of the past year, and areas to watch for the next year. For 2012, one of those hopeful areas was "treating intellectual disability."

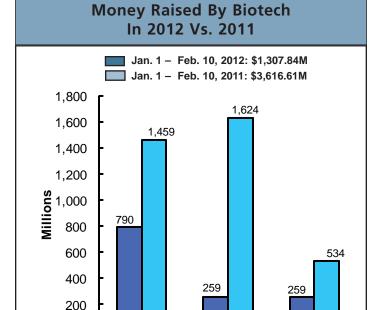
According to the story, "the cognitive deficits and behavioral problems caused by Rett, Fragile X and Down syndromes have long been considered irreversible. In each syndrome, a genetic glitch causes brain development to go awry even before birth. But recent work with mouse models of those conditions suggests, remarkably, that some cognitive and behavioral symptoms may be reversible."

For Rett syndrome, Monica Coenraads traces the realization that developmental disorders do not necessarily mean a lifetime of disability, to a paper published almost exactly five years ago, in the Feb. 8, 2007, issue of Science. In that paper, researchers reported that when they replaced the mutated MeCP2 protein with a normal one in adult mice with full-blown Rett syndrome - animals whose life expectancy without medical intervention could be measured in days - the mice could be rescued, and many of their symptoms reversed.

2007: A Sea Change

Those results "changed the perspective, not just for Rett syndrome, but for other developmental disorders," Coenraads told BioWorld Insight. She is the executive director of the Rett Syndrome Research Trust.

Because the data showed that the deficits in Rett syndrome "have more to do with maintenance than



* Includes financings of public biotech firms with the exceptions of public offerings and certain investments from corporate partners.

Public/

Other*

Public

Offerings

development," they also showed that there was a much larger time window for treatment than had previously been appreciated - which, in turn, makes the logistics of treatment a lot less daunting. From a therapeutic standpoint, "you don't want to have to think about prevention, or treatment in the first year at the most, to have an effect," Coenraads said.

Though there are as yet no industry programs for

See Science, page 4

Private

Biotechs

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Raising Capital in the 21st Century

R&R's DirectMarkets Links **Companies with Investors**

By Brian Orelli

BioWorld Insight Contributing Writer

Since the beginning of the biotech industry, finding capital has always been a major factor in the success of a company. Without cash, it's hard to develop drugs.

Over the years, a wide variety of ways to raise capital have come in and out of favor: venture capital, initial public offerings, secondary offerings, private investment in public equity (PIPE) and at the market offerings (ATMs). But they all have one thing in common: investors interested in parting with their cash in hopes of reaping rewards.

Rodman & Renshaw Capital Group Inc. hopes to link investors looking for a place to invest with public companies that are in need of cash through its new automated electronic transaction platform called DirectMarkets, while improving transaction time and decreasing costs.

Companies that have completed a shelf registration can sell shares through DirectMarkets, which will launch next month. Selling directly into the public markets to unknown investors is already an option through an ATM, but Kevin Lupowitz, CEO of DirectMarkets, said that while his platform can serve this purpose, its real benefit is that it allows companies to attract new investors and then interact with them directly through a bid solicitation process that culminates in the company choosing which investors to accept.

DirectMarkets will provide a website where the company can put information typically presented at non-deal road shows, making it easier for the investors to learn about the company.

"They'll be able to raise awareness of their name and brand," Lupowitz told *BioWorld Insight*.

Once a company signals its interest in selling shares, investors will bid on shares, removing the manual effort of sourcing investors that's typically carried out by investment bankers. The company can then choose the bids its most

interested in pursuing further.

By soliciting bids, companies might be able to get better terms than they could selling into the public markets. Lupowitz said investors might be willing to pay a premium to acquire a large number of shares, which might be difficult in the public markets for companies with thinly traded shares. The investors also will know that their cash is going directly to the company's coffers.

Investors will have the option of contacting companies through DirectMarkets and expressing their interest in purchasing shares.

By choosing the investors, companies have some control over who buys their shares, potentially favoring investors looking to become long-term shareholders. "The advantage to issuers is they're empowered," Lupowitz said. "Investment banks usually source from their usual suspects; more often than not, they're looking to make a auick buck."

Todd Wyche, founder of Brinson Patrick Securities, an investment banking boutique specializing in ATMs where the buyers of the shares aren't known, worries that there's still a conflict of interest with DirectMarkets representing both the buyer and seller. "People in the middle might favor the buyer side," he pointed out.

DirectMarkets expects to maintain low costs by keeping everything electronic. An electronic closing room is "meant to be as simple as a checkout process on Amazon," Lupowitz said.

Companies will pay a subscription fee to use the service, but then sales of shares will be in line with trading fees – on the order of a penny or two per share – rather than investment banking fees.

For that cost savings, DirectMarkets appears to be a little more do-it-yourself than a typical capital raise through an investment bank. Brinson Patrick's Wyche wonders if saving a little money is worth the effort. "We think companies should spend energy on running their business instead of figuring out the intricacies of the capital markets," Wyche said.

BIOWORLD® INSIGHT (ISSN 1541-0579) is published every Monday by AHC Media, 3525 Piedmont Road, Building Six, Suite 400, Atlanta, GA 30305. Subscriber Information

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Patients Seek Regulatory Voice

CF Patient Power Fuels Early Kalydeco Approval

By Mari Serebrov Washington Editor

Early approval of a new drug is usually valued by the dollars that will be made through additional sales.

But for Vertex Pharmaceuticals Inc.'s cystic fibrosis (CF) team, the benefit of getting Kalydeco (ivacaftor) approved three months before its PDUFA date is calculated by what it means to patients.

That focus comes from almost daily contact with CF patients, their families and care centers as the biotech worked with Cystic Fibrosis Foundation Therapeutics Inc. (CFFT) to develop the drug, Eric Olson, Vertex vice president and lead of the CF franchise, told *BioWorld Insight*.

The involvement with patients "really motivates the team . . . and infuses a sense of urgency," he said, telling of one family he met that lost all three kids to CF within a few years.

Because of that urgency, the Cystic Fibrosis Foundation years ago harnessed the power and experience of CF patients to begin pioneering venture philanthropy by partnering with various drug companies, picking up a portion of development costs, providing researchers with insights about the patient population and helping to recruit patients for clinical trials.

Since 1998, the foundation's patient-powered model has yielded dozens of collaborations with leading biotechs and a "pipeline of promise" with more than 30 therapies in development for CF. As of last year, it had invested \$315 million in collaborations with drug companies. (See *BioWorld Today*, July 17, 2008.)

One of the biggest chunks of that investment, \$75 million, helped fund Vertex's R&D of CFTR modulators, and CFFT has made an additional commitment to the Cambridge, Mass.-based biotech of \$75 million through 2016. In addition to the funding, Vertex benefited from patient input into trial design for Kalydeco and the foundation's trial recruitment efforts.

Now that it's time to launch Kalydeco, Vertex also could benefit from the nonprofit's patient registry, which includes the genotype mutation of CF patients. Because of that registry, the patients and care centers know who could be helped by Kalydeco, which was approved to treat the G55ID mutation.

With patient-fueled drug discovery and development proving successful, patient organizations are looking for new avenues to exert their influence. The latest quest is getting a seat at the regulatory table.

A number of patient organizations recently submitted a proposal to the FDA on how the patient community can weigh in as the agency makes risk tolerance and other decisions regarding specific drug applications or policy decisions.

In testimony before the first House subcommittee hearing

on PDUFA reauthorization, Diane Edquist Dorman, vice president of the National Organization for Rare Disorders, stressed the importance of patient communication beyond the current confines of a testimonial at an advisory committee meeting or public workshop.

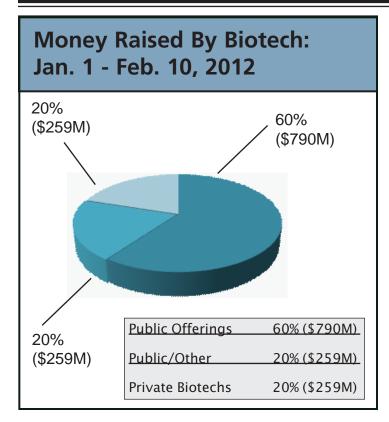
"As the FDA commits to a more patient-centric posture, and as patients themselves become more knowledgeable and sophisticated about diseases and their treatment options," Dorman said, "we advocate that more systematic processes be established at FDA to enable contributions from the patient community at the time that critical decisions on risk tolerance are being made, and from a representative sample of patient views."

The patients don't want to add to the burden of the regulatory system, but they have a unique perspective the FDA, and drugmakers, need to hear. For instance, they know better than the "experts" the amount of risk patients at various stages of an illness are willing to take, Dorman said.

Patients also can speak to the quality-of-life challenges they face and the ways they receive information about the proper use of therapies.

In many cases involving extremely rare diseases, the patients often know more about the disease, and what it means to live with it, than the physician, Dorman said, as she encouraged the FDA, as a matter of policy, to seek patient input at specific milestones during the drug review and approval process.





Science

Continued from page 1

Rett syndrome, Coenraads said her foundation is in talks with several biopharmaceutical companies about possibly pursuing such programs.

Coenraads credits that interest to several other factors besides the seminal paper in *Science*.

Rett syndrome research, she said, has benefited from a push to focus on rare disorders more generally. Over the last few years, big pharma firms like Pfizer Inc., GlaxoSmithKline plc and Sanofi SA have expanded beyond their traditional focus on major markets and plunged into rare diseases, pursuing collaborations, acquisitions and internal research initiatives in indications like Gaucher, Fabry and muscular dystrophy. (See *BioWorld Insight*, Dec. 7, 2009.)

To academics, Rett is also a disease that is simultaneously tractable and intriguing. Its tractability comes from the fact that it is a single-gene disorder whose gene has been identified, and for which "we have really good animal models of the disease."

Scientifically, Rett syndrome sits at the intersection of neurobiology and epigenetics, since the MeCP2 protein is involved in methylation.

Rett syndrome is also connected to other disorders. Some of those disorders, such as autism, come as no surprise. But other links may be more unexpected to those who are not Rett syndrome experts. In particular, Coenraads said there are links between Rett syndrome and Parkinson's disease. "It's very hard to gauge cognitive intellect in children who

are nonverbal, cannot use their hands and are really not in control of their bodies," Coenraads said, adding that there is most likely a spectrum of cognitive disability, just as there is a spectrum of physical disability in individuals with Rett syndrome. But she believes that "at heart, Rett syndrome is a movement disorder."

Judith Kelleher-Andersson, CEO of Neuronascent Inc., also cited the push toward treatments for rare diseases as part of what has brought about the realization that many intellectual disabilities may be treatable. "There really is a sea change going on where not just the NIH, but even some pharmaceutical companies are looking more at rare disorders," she told *BioWorld Insight*. That, in turn, provides "a big impetus" to look at such rare disorders.

Neuronascent was founded in 2004 and is focused mainly on neurodegenerative disease, but it also has a program going for Down syndrome.

Like Rett syndrome, Down syndrome has connections to other disorders that have a longer history of being in biopharma's crosshairs. Most individuals with Down syndrome develop Alzheimer's disease, and Kelleher – who is quite critical of the amyloid-beta model of Alzheimer's – said that looking at models of Down syndrome might bring better insights into the disorder.

A successful Alzheimer's drug, of course, would be all but guaranteed blockbuster status. And its clinical path is far clearer than that of a trailblazer to treat cognitive disorders. So what makes companies go for rare indications instead?

Rare or Common?

Partly, Jay Lichter told *BioWorld Insight*, it is that in many ways, it's hard for the unknown path for a trailblazer to be any worse than the known path for many large indications. While pivotal trials in bigger indications can take a two-year trial of 1,000 patients, it is not unheard of for rare disease drugs to be approved on the basis of a six-month trial in 30 or 40 patients.

Lichter is the CEO of Afraxis Inc., which is in preclinical development with a drug for Fragile X syndrome. He is also a managing director at Avalon Ventures.

Like Rett syndrome, attitudes towards Fragile X underwent a fundamental shift with the publication of a research paper in 2007. In that case, the paper came out of the lab of Nobelist and M.I.T. professor Susumu Tonegawa. Work at Afraxis targets the kinase that Tonegawa and his team identified in that paper, the p21-activated kinase, or PAK.

Lichter said, from a venture capital standpoint, whether new scientific findings will translate into a willingness for a company to go after a disease depends on many things. As with Rett syndrome, the paper showing that Fragile X could be treated into animal adulthood was one key factor.

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WEEK IN REVIEW

Financings

Acetylon Pharmaceuticals Inc. scored a \$15 million equity investment from Celgene Corp.

Altheos Inc. raised \$12.5 million in a Series A extension round.

Anacor Pharmaceuticals Inc. is raising \$21.5 million in a public stock offering.

Array Biopharma Inc. raised \$52 million in a public stock offering.

Cempra Inc. raised \$50.4 million in its initial public offering.

ChemoCentryx Inc. raised \$45 million in its initial public offering.

MannKind Corp. raised \$75 million in a public offering of stock and warrants.

Radius Health Inc. filed to raise up to \$86.25 million in an initial public offering.

Synchroneuron Inc. raised \$6 million in a Series A financing for movement disorders.

Deals

Cytomedix Inc. acquired cell therapy firm **Aldagen Inc.** for \$16 million in stock.

Threshold Pharmaceuticals Inc. signed a \$550 million deal with Merck KgaA for cancer drug TH-302.

Tocagen Inc. signed a companion diagnostics partnership with **Siemens Healthcare Diagnostics**.

... And More

Check *BioWorld Today* for coverage of the American Heart Association International Stroke Conference, the Society for Laboratory Automation and Screening's annual meeting and the Biocom Global Life Science Partnering Conference.

Amgen Inc.'s Xgeva (denosumab) got vetoed by an FDA panel for preventing prostate-to-bone metastases.

Avanir Pharmaceuticals Inc.'s AVP-923 reduced pain in a diabetic peripheral neuropathy Phase III trial.

Eisai Co. Ltd.'s and **Astex Pharmaceuticals Inc.**'s Dacogen (decitabine) got an advisory committee's thumbs-down for an expansion from myelodysplastic syndromes into acute myeloid leukemia.

Forest Laboratories Inc.'s and Gedeon Richter plc's antipsychotic cariprazine got good Phase III data.

NeurogesX Inc.'s Qutenza (capsaicin) got an advisory panel's veto in HIV-associated peripheral neuropathy.

ViroPharma Inc. got a complete response on Cinryze (Cl esterase inhibitor) manufacturing expansions.

Science

Continued from page 4

Another factor is that, in the case of Fragile X, Tonegawa identified a kinase – pretty much the oldest frenemy of the biopharmaceutical industry. While there are challenges with getting a kinase inhibitor to the right place in high enough concentrations, how to address those challenges is hardly something that stumps industry in principle – whereas "if all you have is a target of unknown function, that's intractable," Lichter told *BioWorld Insight*.

Though it has been about five years since the realization

that both Rett syndrome and Fragile X may be treatable in adults, the latter has attracted more commercial attention in those five years. Furthest along is Seaside Therapeutics Inc., which is in a Phase III trial for Fragile X with its STX-209. Marinus Pharmaceuticals Inc., like Afraxis, is at the preclinical stage.

But Lichter said Fragile X is likely further along the development path than Rett syndrome due to serendipity rather than any intrinsic differences between how tractable the two disorders are. In fact, he said, "a compound that works in Fragile X is likely to work in Rett syndrome as well."

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WORD ON THE STREET

"It's a good reaction to the fear and retrenchment."

– Bijan Salehizadeh, co-founder and managing director of NaviMed Capital, on the emergence of new venture business models

"Synergy always starts with people, and in these kinds of enterprises it starts with the scientists."

- Amir Nashat, partner at Polaris Venture Partners and member of the board of directors at Avila Therapeutics Inc., discussing the acquisition by Celgene Corp.

"I've been dismayed that in this whole Republican primary, I've heard not one word about the FDA. Everybody's talking about jobs, but nobody talks about FDA."

– John Reed, CEO of Sanford-Burnham Medical Research Institute, pointing out that the FDA regulates roughly one-fifth of the U.S. economy

WEEK IN WASHINGTON

The FDA released three draft guidances on biosimilars, describing a risk-based "totality-of-the-evidence" approach to establishing similarity to a reference product. Other guidances are in the works, although the FDA said it will not follow the European model of issuing separate guidances for each drug class.



Public Financing Of Biotechnology: January 2012 I. COMMENCED TRADING IN JANUARY Date Date Shares/ **Price** Shares Lead, Other Gross Post-Company Offering (Symbol)# Filed Comm. Units **Underwriters** (US\$M) Out (M) (M)@ Market Cap (M)% **INITIAL OFFERINGS Verastem Inc.** 11/3/11 1/27/12 6.325S \$10 21.06 **UBS Investment Bank** \$63.25 \$210.6 (Cambridge, Mass.; Leerink Swann (co-lead) VSTM)1 Lazard Capital Markets

Oppenheimer & Co. Rodman & Renshaw LLC

TOTAL: \$63.25M

NUMBER OF IPOS IN JANUARY: 1

AVERAGE VALUE OF JANUARY IPOS: \$63.25M

NUMBER OF IPOS IN 2012:1

TOTAL RAISED IN IPOS IN 2012: \$63.25M AVERAGE VALUE OF IPOS IN 2012: \$63.25M

Company (Symbol)#	Date Filed	Date Comm.	Shares/ Units (M)	Price	Shares Out (M)@	Lead, Other Underwriters	Gross (US\$M)	Post- Offering Market Cap (M)%
FOLLOW-ON OF	FERINGS							
Aeterna Zentaris Inc. (Quebec City; AEZS) ²	1/23/12	1/23/12	10.45	N/A	N/A	MLV & Co. LLC	(up to \$16)	N/A
Chelsea Therapeutics International Ltd. (Charlotte, N.C.; CHTP) ³	1/10/11	1/6/12	4.99S	\$4.75	66.84	Leerink Swann Needham & Co. Roth Capital Partners	\$23.7	\$317.49
iBio Inc. (Newark, Del.; AMEX:IBIO) ⁴	7/26/11	1/9/12	15.385U	\$0.65	47.8	Roth Capital Partners	\$10	\$31.07
ImmunoCellular Therapeutics Ltd. (Woodland Hills, Calif.; OTC QB:IMUC) ⁵	1/11/12	1/11/12	9.49U	\$1.10	38.7	Cowen & Co. Summer Street Research	\$10.44	\$42.57
Neurocrine Biosciences Inc. (San Diego; NBIX) ⁶	12/29/10	1/19/12	10.925S	\$8.10	66.19	Jefferies Deutsche Bank (co-lead) Piper Jaffray Leerink Swann	\$88.49	\$536.14
Senesco Technologies Inc. (Bridgewater, N.J.; AMEX:SNT)	10/26/10	1/9/12	8.7S and W for 3.75S	\$0.26	89.5	N/A	\$2.26	\$23.27

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Company (Symbol)#	Date Filed	Date Comm.	Shares/ Units (M)	Price	Shares Out (M)@	Lead, Other Underwriters	Gross (US\$M)	Post- Offering Market Cap (M)%
Synageva BioPharma Corp. (Lexington, Mass.; GEVA) ⁷	12/20/11	1/5/12	3.57S	\$25.18	21.17	Morgan Stanley (co-lead) JP Morgan (co-lead) Cowen & Co. Leerink Swann Wedbush PacGrow Life	\$89.89	\$533.1
Synta Pharmaceuticals Corp. (Lexington, Mass.; SNTA) ⁸	8/19/11	1/6/12	8.05S	\$4.40	57.55	Jefferies Canaccord Genuity Roth Capital Partners	\$35.42	\$253.22
Trius Therapeutics Inc. (San Diego; TSRX) ⁹	9/15/11	1/26/12	9.89S	\$5.25	38.44	Citigroup Piper Jaffray (co-lead) Canaccord Genuity Ladenburg Thalmann	\$51.92	\$201.81
Vical Inc. (San Diego; VICL) ¹⁰	1/29/10	1/6/12	13.3S	\$3.75	95.87	Citigroup (co-lead) Credit Suisse Sec. (co- lead) Leerink Swann (co-lead) Rodman & Renshaw LLC	\$50	\$359.5
Ziopharm Oncology Inc. (New York; ZIOP) ^{II}	11/16/12	1/23/12	9.65S	\$5.20	78.1	J.P. Morgan Lazard Capital Markets Piper Jaffray Collins Stewart Griffin Securities Inc.	\$50.18	\$406.12

TOTAL: \$412.3M

NUMBER OF FOLLOW-ON OFFERINGS IN JANUARY: 10

AVERAGE VALUE OF JANUARY FOLLOW-ONS: \$41.23M

NUMBER OF FOLLOW-ON OFFERINGS IN 2012: 10

TOTAL RAISED IN FOLLOW-ONS IN 2012: \$412.3M

AVERAGE VALUE OF FOLLOW-ONS IN 2012: \$41.23M

Notes:

Unless otherwise indicated, shares are traded on the Nasdaq exchange; @ This column reflects the shares outstanding following the offering, when disclosed; % Market capitalization is calculated based on the offering price. Currency conversions are based on exchange rates at the time of the deal.

¹Includes Verastem's overallotment option: 825,000 shares.

- ² Aeterna commenced an at-the-market financing to sell up to 10.4M shares for up to \$16M. The company raised approximately \$35.5M through the same method in 2011.
- ³ Includes Chelsea's overallotment option: 650,775 shares.
- ⁴ iBio's units contain one share of common stock and 0.75 units of a warrant to purchase one share of common stock; warrants are exercisable at 88 cents per share a year and a day after issuance.
- ⁵ ImmunoCellular's units consist of one share of common stock and a warrant to buy one half share of common stock; the warrants have a five-year term and are exercisable at \$1.41 per share.
- ⁶ Includes Neurocrine's overallotment option: 1.425M shares.
- ⁷ Includes Synageva's overallotment option: 466,209 shares.
- 8 Includes Synta's overallotment option: 1.05M shares.
- 9 Includes Trius' overallotment option: 1.29M shares.
- 10 Vical's overallotment option: 2M shares.
- ¹¹ Ziopharm's overallotment option: 1.448M shares.

II. FILED AND	PENDING	j				
Company (Symbol)#*	Date Filed	Shares/ Units (M)	Price	Shares Out	Lead, Other Underwriters (M)®	Gross (US\$M)
INITIAL OFFERIN	NGS					
Argos Therapeutics Inc. (Durham, N.C.; ARGS)	7/29/11	N/A	N/A	N/A	Lazard Capital Markets Canaccord Genuity (co-lead) Needham & Co. BMO Capital Markets	\$86.25
Cempra Holdings LLC (Chapel Hill, N.C.; CEMP) ¹	10/12/11	N/A	N/A	N/A	Stifel Nicolaus Weisel Leerink Swann (co-lead) Cowen & Co. (co-lead) Needham & Co.	\$86.25
ChemoCentryx Inc. (Mountain View, Calif.; CCXI) ²	10/14/11	4S	\$14-\$16	34.02	J.P. Morgan Citigroup (co-lead) Cowen and Co.	\$60
Insys Therapeutics Inc. (Phoenix; INRX)	3/30/11	N/A	N/A	N/A	Wells Fargo Securities JMP Securities (co-lead) Oppenheimer & Co.	\$55
Merrimack Pharmaceuticals Inc. (Cambridge, Mass.; MACK)	7/8/11	N/A	N/A	N/A	J.P. Morgan BofA Merrill Lynch Cowen & Co. Oppenheimer & Co.	\$172.5
Rib-X Pharmaceuticals Inc. (New Haven, Conn.; RIBX)	11/28/11	N/A	N/A	N/A	Deutsche Bank Securities William Blair & Co. Lazard Capital Markets Needham & Co. LLC	\$80
Supernus Pharmaceuticals Inc. (Rockville, Md.; SUPN)	12/23/10	N/A	N/A	N/A	Citigroup Piper Jaffray (co-lead) Cowen and Co. Stifel Nicolaus Weisel	\$100
TVAX Biomedical Inc. (Lenexa, Kan.; TVAX) ³	11/7/11	2S	\$9-\$11	N/A	Roth Capital Partners Cantor Fitzgerald & Co. Aegis Capital Corp.	\$20

Notes: # Unless otherwise indicated, shares are traded on the Nasdaq exchange.

General shelf registration statements are not included until action is taken on the filing.

N/A = Not available, applicable or reported.

The value of all offerings is based on either the midpoint of the price range listed in the company's SEC filing or the most recent closing stock price before the offering was announced. In some cases, the company has not disclosed the number of shares to be offered or a price range. Then, the value is the maximum aggregate offering price listed in the SEC filing.

^{*} Stock symbols for companies seeking to complete IPOs are proposed.

[@] This column reflects the shares outstanding following the offering, when disclosed.

¹ Cempra completed its IPO Feb. 3, raising \$50.4M, and will appear as completed in the February chart.

² ChemoCentryx completed its IPO Feb. 8, raising \$45M, and will appear as completed in the February chart.

³TVAX's overallotment option: 300,000 shares.

Biotech Money Raised By Month In 2012						
Type of financing	January	Total (\$M)				
Public offerings	475.6	475.6				
Public/other	245.3	245.3				
Private biotechs	250.4	250.4				
Total (\$M)	971.3	971.3				

Notes:

Public offerings = Initial, follow-on.

Private biotechs = Financings of private firms.

Public/other = Other financings of public companies, including loans, bridge financings, exercises of warrants, debt offerings, rights offerings, standard private placements, PIPE financings and institutional offerings of registered stock.

Other Financings Of Public Biotechnology Companies: January 2012

TOTAL: \$245.296M

Company (Location)	Type Of Financing	Number Of Shares, Units Or Warrants (M)	Amount Raised (M)	Investors; Placement Agents; Details (Date)
Advaxis Inc. (Princeton, N.J.)	Convertible notes purchase agreement	Notes	\$1.2	Advaxis entered into the agreement with certain investors to purchase \$1.2M in notes; Rodman & Renshaw LLC acted as exclusive placement agent (1/4)
Amarin Corp. plc (Dublin, Ireland)	Offering of exchangeable senior notes matur- ing Jan. 15, 2032	Notes	\$150	Amarin's subsidiary Corsicanto Ltd. priced a \$150M offering with institutional buyers; initial purchasers have a 30-day option for another \$22.5M in notes; the initial exchange rate is 113.4752 American Depositary Shares of Amarin per \$1,000 principal of the notes, or about \$8.81 per ADS (1/5)
Amsterdam Molecular Therapeutics BV (Amsterdam, the Netherlands)	Private placement	7.4\$	€2.5 (\$3.3)	Amsterdam raised \$3.3M in the private placement with Forbion Capital Partners, Gilde Healthcare Partners and Advent Venture Partners (1/4)
Arena Pharmaceuticals Inc. (San Diego)	Registered direct offering	9.95S	\$28	Arena sold nearly 10M shares at \$1.66 per share, and 9,953 shares of prefered stock at \$1,657.75 per share; the buyers are affiliated with Deerfield Management; \$5M of the \$33M total is being used to pay off part of a loan (1/12)
Bionovo Inc. (Emeryville, Calif.)	Private placement	N/A	\$5	Bionovo entered a \$5M securities purchase agreement with Socius CG II Ltd. (1/4)
Cel-Sci Corp. (Vienna, Va.)	Registered direct offering	16S and W for 12S	\$5.76	Cel-Sci raised \$5.76M by selling 16M shares priced at 36 cents each in a registered direct offering; the investor also receives warrants to purchase 12M shares (1/27)

Top Private Financings Of Public Companies: 2012				
Company	Amount Raised			
Amarin Corp. plc	\$150M			
Arena Pharmaceuticals Inc.	\$28M			
Repros Therapeutics Inc.	\$11.1M			
Talon Therapeutics Inc.	\$11M			

Company (Location)	Type Of Financing	Number Of Shares, Units Or Warrants (M)	Amount Raised (M)	Investors; Placement Agents; Details (Date)
DARA BioSciences Inc. (Raleigh, N.C.)	Private placement of common stock and warrants	1.2S and W for 0.619S	\$1.7	DARA signed an agreement with an institutional investor for \$1.7M in Series B convertible preferred stock, convertible into about 1.2M shares of common stock, and warrants to purchase 619,308 shares of common stock; Ladenburg Thalmann & Co. acted as exclusive placement agent (1/20)
Elite Pharmaceuticals Inc. (Northvale, N.J.)	Private placement of nonconvertible Series F preferred stock	N/A	(up to \$5)	Elite entered an agreement to sell up to \$5M of stock to Socius Capital Group over a two-year period (1/4)
EntreMed Inc. (Rockville, Md.)	Private placement of convertible notes and warrants	N/A	\$10	EntreMed issued \$10M in convertible notes and warrants to certain accredited investors, including IDG-Accel China Growth Fund II LP, Emerging Technology Partners LLC and Tak W. Mak, director of the Campbell Family Institute for Breast Cancer Research (1/24)
Generex Biotechnology Corp. (Worcester, Mass.)	One-year term loans	N/A	C\$3.6 (\$3.56)	Generex secured two commitments to raise \$3.56M in capital through one-year term loans from private lenders, secured by the company's real estate (1/26)
GeoVax Labs Inc. (Atlanta)	Private placement of units	N/A	\$1.5	GeoVax is offering a private placement of up to \$1.5M of units consisting of one share of common stock and a five-year warrant to purchase 1.5M shares of common stock at \$1 per share (1/5)
Marshall Edwards Inc. (San Diego)	Private placement of common stock	1.94S	\$2	Marshall Edwards raised \$2M in the placement with majority shareholder and parent company Novogen Ltd. (1/3)
Pacgen Biopharma- ceuticals Co. (Vancouver, British Columbia)	Private placement of common stock	4.376S	\$0.3	Pacgen raised \$300,000 by placing the shares with CurieMed Corp. (1/13)
PharmaGap Inc. (Ottawa, Ont.)	Private placement of units	1.01U; 3.3U	\$0.0 <i>7</i> 1; \$0.2 <i>3</i> 1	PharmaGap completed an offering of 1.01M units for 7 cents each, raising \$70,744 (1/13); it completed an offering of 3.3M units for 7 cents apiece, raising \$231,000 (1/24)

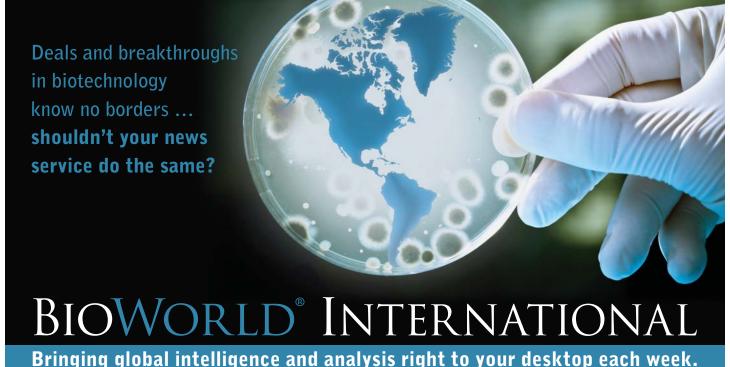
Company (Location)	Type Of Financing	Number Of Shares, Units Or Warrants (M)	Amount Raised (M)	Investors; Placement Agents; Details (Date)
Repros Therapeutics Inc. (The Woodlands, Texas)	Registered direct offering	2.4\$	\$11.1	Repros raised \$11.1M by selling about 2.4M shares at \$4.50 each; Ladenburg Thalmann and Co. Inc. was the placement agent (1/30)
Soligenix Inc. (Princeton, N.J.)	Nondilutive financ- ing	N/A	\$0.574	Soligenix received \$574,000 in nondilutive financing via the New Jersey's Technology Business Tax Certificate Transfer Program (1/27)
Talon Therapeutics Inc. (San Mateo, Calif.)	Private placement of preferred stock	N/A	\$11	Talon sold \$11M in preferred stock to Warburg Pincus and Deerfield Management (1/11)
XOMA Ltd. (Berkeley, Calif.)	Term loan agreement	N/A	\$10	XOMA signed a \$10M, 42-month secured term loan agreement with GE Capital Healthcare Financial Services (1/3)

Notes:

This chart does not include real estate or manufacturing plant financings, or debt deals done to replace existing debt. Loan money is included in the total only when it is drawn down, if disclosed.

** Denotes the date the item ran in *BioWorld International*. Currency conversions are based on exchange rates at the time of the deal. The date indicated refers to the *BioWorld Today* issue in which the news item can be found.

N/A = Not applicable; ND = Not disclosed.



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Venture Capital And Other Investments In Private Biotechnology Companies: January 2012

TOTAL: \$250.44M

Company	Location	Date	Amt. (M)	Details
3-V Biosciences Inc.	Menlo Park, Calif.	1/6	\$20	3-V Biosciences closed a preferred stock financing providing a minimum of \$20M with existing investors Kleiner Perkins Caufield and Byers and New Enterprise Associates
Apogenix AG	Heidelberg, Germany	1/6	€7.5 (\$9.6)	Apogenix raised \$9.6M in a Series C investment from Dievini Hopp BioTech Holding GmbH & Co. KG, the German Cancer Research Center and the company's founders and management
Avexxin AS	Trondheim, Norway	1/10	ND	Avexxin closed an undisclosed Series A round; Sarsia Seed managed the investment in syndica- tion with Leiv Eiriksson Invest
BergenBio AS	Bergen, Norway	1/10	\$8.8	BergenBio raised \$8.8M in a Series A round from Sarsia Seed AS and Investinor AS
BioRelix Inc.	New Haven, Conn.	1/19	\$0.5	BioRelix received \$500,000 from Connecticut Innovations as part of a \$4.2M round of funding
Blend Therapeutics Inc.	Watertown, Mass.	1/9	ND	Blend raised an undisclosed amount from Flagship Ventures, New Enterprise Associates and NanoDimension
Clearside Biomedical Inc.	Atlanta	1/6	\$4	Clearside launched with a \$4M Series A from Hatteras Venture Partners
CrystalGenomics Inc.	Pangyo, South Korea	1/17	KRW3B (\$2.6)	CrystalGenomics raised \$2.6M through a private placement to the Korea Seoul Life Science Fund
Elevation Pharmaceuticals Inc.	San Diego	1/5	\$30	Elevation raised \$30M in a Series A round led by Novo Ventures, and including Canaan Partners, TPG Biotech, Care Capital and Mesa Verde Venture Partners
Galecto Biotech AB	Lund, Sweden	1/4	ND	Galecto received seed funding from Novo A/S, Merck Serono Ventures and Forskarpatent
MacuClear Inc.	Plano, Texas	1/4	\$1	MacuClear secured more than \$1M in funds from current investors
MedGenesis Therapeutix Inc.	Victoria, British Columbia	1/11	\$5	MedGenesis raised \$5M from undisclosed sources for Phase II trials of its Parkinson's therapy
Midatech Ltd.	Oxford, UK	1/6	£6.3 (\$9.76)	Midatech raised \$9.76M through a private investment round

Top Financings Of Private Companies: 2012				
Company	Amount Raised			
Supernus Pharmaceuticals Inc.	\$42M			
Elevation Pharmaceuticals Inc.	\$30M			
Prosensa Therapeutics BV	\$29.9M			
RaNA Therapeutics Inc.	\$21M			
3-V Biosciences Inc.	\$20M			

Company	Location	Date	Amt. (M)	Details
Oxford Cancer	Research	1/25		
Biomarkers Ltd.	Triangle Park, N.C.	1/23	£3 (\$4.68)	Quintiles Transnational Corp. invested \$4.68M to gain a 27.5% stake in Oxford Cancer Biomarkers
Pharmalink AB	Stockholm, Sweden	1/5	SEK35 (\$5.1)	Pharmalink raised \$5.1M through a rights issue of new shares to existing shareholders, including Industrifonden
Probiodrug AG	Halle, Germany	1/5	€15 (\$19.4)	Probiodrug raised \$19.4M from investors BB Biotech, Edmond de Rothschild Investment Partners, Life Sciences Partners, Biogen Idec New Ventures, TVM Capital, HBM BioVentures, Goodvent/IBG and private investors
Prosensa Therapeutics BV	Leiden, the Netherlands	1/26	€23 (\$29.9)	Prosensa raised \$29.9M in a Series C round led by New Enterprise Associates; other investors were Abingworth, Life Sciences Partners, Gimv, Idinvest Partners and MedSciences Capital
RaNA Therapeutics Inc.	Cambridge, Mass.	1/19	\$21	RaNA Therapeutics raised \$20.7M in a Series A round led by Atlas Venture, SR One and Monsanto Co., with participation by Partners Innovation Fund
Supernus Pharmaceuticals Inc.	Rockville, Md.	1/9	\$42	Supernus closed two transactions: one involving the sale of royalties to Sanctura XR for overactive bladder and Oracea for rosacea for \$27M; and one generating \$15M through the issuance of venture debt
Syndexa Pharmaceuticals Corp.	Watertown, Mass.	1/6	\$8.5	Syndexa secured additional financing in a Series B1 round from MP Healthcare Venture Management bringing the total raised since April 2011 to \$8.5M; the round was initially led by Yalcin Ayasli
Telormedix SA	Bioggio, Switzerland	1/11	CHF7.5 (\$7.9)	Telormedix raised \$7.9M from Aravis Venture and Proquest Investment
Thrombotech Ltd.	Jerusalem	1/19	\$1.4	Thrombotech received \$1.4M in an investment from Hadasit Bio-Holdings Ltd., Clal Biotechnology Industries and Ofer Hi-Tech
Tonix Pharmaceuticals Holding Corp.	New York	1/24	\$4.3	Tonix raised \$4.3M by selling 172 units for \$25,000 apiece, with each unit consisting of 25,000 shares of common stock, Class A warrants to purchase 25,000 shares of common stock and Class B warrants to receive up to 25,000 shares of common stock
Vitae Pharmaceuticals Inc.	Fort Washington, Pa.	1/19	\$15	Vitae obtained a \$15M round of debt financing from Oxford Finance LLC and Silicon Valley Bank

Notes:

Currency conversions are based on exchange rates at the time of the deal.

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ND = Not disclosed.

^{**} Denotes the date the item ran in BioWorld International.

Milestone Payments From Corporate Partners: January 2012

TOTAL: \$34.407M YEAR TO DATE: \$34.407M

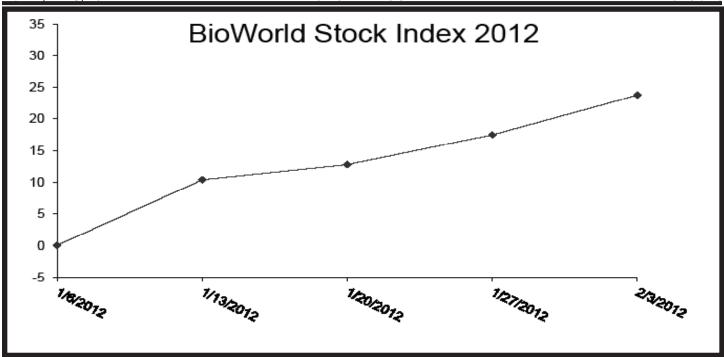
Company (Location)	Partner (Location)	Amt. (M)	Details (Date)
Aeterna Zentaris Inc. (Quebec City)	Yakult Honsha Co. Ltd. (Tokyo)	ND	For the start of a Phase I/II trial in Japan of perifosine in combination with capecitabine in patients with refractory advanced colorectal cancer (1/4)
BioAlliance Pharma SA (Paris)	Therabel Group	€1 (\$1.29)	For the approval from Italian health authorities for Loramyc, a treatment for oropharyngeal candidiasis in immunosuppressed patients (1/5)
Catalyst Biosciences Inc. (South San Francisco)	Pfizer Inc. (New York)	\$7	For the start of a Phase I trial for PF-05280602 for hemophilia A and B patients (1/6)
Epizyme Inc. (Cambridge, Mass.)	Eisai Co. Ltd. (Tokyo)	\$4	For hitting a preclinical milestone in the EZH2-targeted cancer collaboration (1/11)
Evotec AG (Hamburg, Germany)	Boehringer Ingelheim GmbH (Ingelheim, Germany)	€2.5 (\$3.2)	For the identification and selection of an oncology compound to be advanced into extended profiling prior to preclinical development (1/12)
Trius Therapeutics Inc. (San Diego)	Bayer Pharma AG (Leverkusen, Germany)	\$5	For meeting efficacy and safety objectives in the pivotal Phase III study of the oral formulation of TR701-112 compared to linezolid in bacterial skin and skin structure infections (1/24)
XenoPort Inc. (Santa Clara, Calif.)	Astellas Pharma Inc. (Tokyo)	\$10	For the Japanese approval of Regnite for moderate to severe primary restless legs syndrome (1/19)
Zealand Pharma A/S (Copenhagen, Denmark)	Helsinn Healthcare SA (Lugano, Switzerland)	€3 (\$3.917)	For reaching a development milestone with elsiglutide, a GLP-2 peptide agonist, for chemotherapy-induced diarrhea (1/4)

Notes:

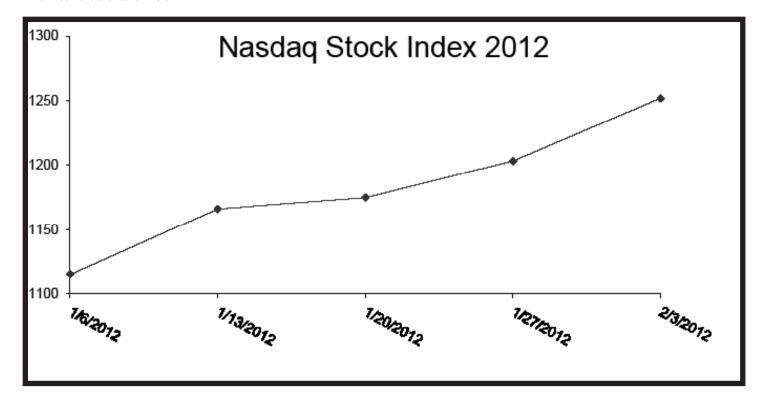
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These graphs compare the performance of the biotech stocks for all of 2012 using two different measures. The BioWorld Stock Indicator measures the average percent change year to date in the approximately 206 U.S. biotech and biotech-related stocks that are covered weekly in *BioWorld Insight*. The Friday closing price of each stock on the list is compared either to its 2011 closing price (12/31/11) or its IPO price (if the stock started trading in 2012), and expressed as a percent change. Then the percent changes for all stocks on the list are added and subsequently divided by the total number of stocks listed. The Nasdaq Biotech Index comprises 118 biotech securities that are listed on Nasdaq. The companies must have a minimum market cap of \$200M to be included on the list. The index is market-value weighted, with the representation of each stock in the index being proportional to its closing price times the total number of shares outstanding, relative to the total market value of the index.



The Week's Biggest Gainers and Losers

10 BIGGEST U.S. WINNERS FOR THE WEEK							
(By Percent)		(By Dollars)					
Medgenics Emisphere Tech CytRx Dara Biosciences NuPathe Agenus Pharmacyclics	54.95 31.82 31.03 28.97 27.15 21.60 20.36	Regeneron Pharma Alexion Pharma Pharmacyclics Medgenics BG Medicine 3S Bio Agenus	5.22 4.56 3.93 2.00 1.62 0.63 0.62				
CEL-SCI ImmunoCellular Thera BioSante Pharma	17.65 15.24 14.86	NuPathe Ventrus Biosci Chelsea Therap	0.60 0.53 0.49				

10 Biggest U.S. Losers for the Week						
(By Percent)		(By Dollars)				
NeurogesX	-44.76	Biogen Idec	-3.74			
Alseres	-41.67	Genomic Health	-2.42			
Astex Pharma	-27.40	Theravance	-2.06			
Pharmos	-22.22	Amgen	-1.92			
Codexis	-19.57	Clovis Oncology	-1.91			
Osiris Thera	-18.99	Achillion	-1.83			
Anacor Pharma	-16.58	InterMune	-1.50			
Corcept	-16.11	Celgene	-1.47			
Achillion	-15.60	Sagent Pharma	-1.44			
Dyax	-12.27	AMAG Pharma	-1.40			

BioWorld Stock Report For Public Biotechnology Companies

Company	Symbol	Close 2/3	Close 2/10	%Ch WK	ange YTD	Vol (000)	C	Company	Symbol	Close 2/3	Close 2/10	%Cha	ange Vo	/ol (0)
3S Bio Aastrom Biosci Acadia Pharma Accentia Biopharma Access Pharma AcelRx Pharma Achillion Acorda Therap Adamis Adventrx Pharma Aegerion Pharma AEterna Zentaris Affymax Agenus Albany Molecular Alexion Pharma	SSRX ASTM ACAD ABPI ACCP ACHN ACOR ACHN ACOR ALEZS AFFY AGEZS AFFY AGRI ALXN	2/3 10.97 2 1.77 0.54 1.44 3.3 11.73 26.43 0.17 0.67 17.24 1.84 10.38 2.87 3.04 78.88	2/10 11.6 1.83 1.8 0.51 1.4 3.22 9.9 25.44 0.17 0.71 16.51 1.63 10.47 3.49 2.97 83.44	5.74 -8.50 1.69 -5.56 -2.78 -2.42 -15.60 -3.75 0.00 5.97 -4.23 -11.41 0.87 21.60 -2.30 5.78	15.65 0.55 60.71 70.00 3.70 50.47 7.93 0.00 24.56 1.85 7.24 58.16 71.08 1.37 17.55	(000) 288 1141 2342 167 77 36 9057 2707 658 5548 206 3736 7307 1388 423 8310		Celgene Cell Therapeutics Celldex Therap CEL-SCI Cerus Chelsea Therap Cleveland Biolabs Clovis Oncology Codexis Columbia Labs CombiMatrix Complete Genomics Cormugen Corcept CorMedix Cornerstone Therap	CELG CTIC CLDX CVM CERS CHTP CBLI CLVS CDXS CBRX CBMX G GNOM CGEN CORT CRMD CRTX	73.21 1.11 4.98 0.34 3.16 4.5 3.32 23.81 6.08 0.81 1.66 3.01 5.89 3.29 0.43 6.85	71.74 1.08 5.07 0.4 3.2 4.99 3.09 21.9 4.89 0.78 1.66 3.29 6.15 2.76 0.42 6.01	-2.01 -2.70 1.81 17.65 1.27 10.89 -6.93 -8.02 -19.57 -3.70 0.00 9.30 4.41 -16.11 -2.33 -12.26	6.20 1366 -3.57 555 92.78 231 42.86 321: 13.48 22: -2.92 62: 10.36 4: 55.43 5: -7.39 16: -68.92 51: 6.41 14.24 80: 23.00 11: -19.77 36: 40.00 2.39	554 508 508 552 233 554 676 778 14 985 905 510 26 85
Alexza Pharma Alimera Sciences Alkermes Allos Therapeutics Alnylam Pharma Alseres AMAG Pharma Amarin Amgen Amicus Ampliphi Biosci Amylin Pharma Anacor Pharma Anthera Pharma Ardea Biosciences Arena Pharma	ALXA ALIM ALKH ALNY ALSE AMAG AMRN FOLD APHB AMLN ANAC ANTH ANAC ARNA	0.76 1.76 19.16 1.71 13.01 0.36 17.25 8.79 69.28 6.78 0.14 17.1 7.42 8.28 19.43 1.87	0.72 1.65 17.98 1.7 12.15 0.21 15.85 8.4 67.36 6.7 0.14 17.17 6.19 7.78 18.76 1.94	-5.26 -6.25 -6.16 -0.58 -6.61 -41.67 -8.12 -4.44 -2.77 -1.18 0.00 0.41 -16.58 -6.04 -3.45 3.74	4.05 98.81 7.69 48.40 0.00 32.76 10.03 1.57	630 4015 1830 2431 8 459 10982 44024 802 56 30851 1681 341 1039 17783		Cubist Pharma Curis Curis Cytokinetics Cytok	CBST CRIS CYTK CYTR DARA DNDN DEPO DDXS DSCO DRRX DUSA DYAX EMS EMIS ECYT	41.61 5.01 1.08 0.29 1.45 14.17 6.7 0.27 2.51 0.78 5 1.63 4.3 18.27 0.22 3.64	40.43 4.77 1.18 0.38 1.87 14.05 6.49 0.29 2.65 0.8 4.69 1.43 4.05 17.35 0.29 3.53	-2.84 -4.79 9.26 31.03 28.97 -0.85 -3.13 7.41 5.58 2.56 -6.20 -12.27 -5.81 -5.04 31.82 -3.02	85.36 829: 21.31 30: 81.25 55: 58.68 25: -33.33 15: 4.69 6: 7.52 8: 22.73 74: 0.75 53: 31.82 10: 1.15 13:	567 522 279 393 354 342 540 570 548 532 104 558 381
Ariad Pharma ArQule Array BioPharma Aryx Astex Pharma Auxilium Pharma Avanir Avax Tech AVEO Pharma AVI BioPharma Bellus Health BG Medicine BioCryst Pharma Biodel Biodelivery Sci Biogen Idec BioMarin Pharma Bio-path Holdings BioSante Pharma Cardiome Cardiome Cardiovascular Bio Catalyst Pharma	ARIA ARQL ARRY ARYX ASTX AUXL AVXT AVEO AVII BLUS BGMD BCOD BDSI BIIB BMRN BPTAX CRME CRME CPRX	15.48 8.14 3.01 0.01 2.81 20.07 3.31 0.06 13.5 1 0.04 6.89 4.03 0.6 2.05 121.88 37.53 0.34 4.27 2.41 0.33 1.11	14.65 7.73 2.66 0.01 2.04 19.29 2.93 0.06 13.65 1.11 0.04 8.51 3.84 0.64 2.07 118.14 37.21 0.35 0.85 4.03 2.41 0.34	-5.36 -5.04 -11.63 0.00 -27.40 -3.89 -11.48 0.00 1.11 11.00 0.00 23.51 -4.71 6.67 0.98 -3.07 -0.85 2.94 14.86 -5.62 0.00 3.03	34.67 27.88 0.000 15.91 -1.23 49.49 100.00 -21.28 46.05 0.00 70.54 62.03 14.29 152.44 6.78 9.25 2.94	12799 56 1678 7157 167 130 897 2674 620	E E E E F F F O O O O O O O O O O O O O	Entremed Enzo Biochem Enzon Pharma Epicept Exelixis Flamel Tech Fluidigm Forest Labs Furiex Pharma Galena Biopharma Generex Biotech Genomic Health GenVec Geron Gilead Sciences GTX Harvard Bio Horzon Pharma Human Genome denix Pharma dera Pharma mmunoCellular mmunoGen	ENMD ENZ ENZN EPCT EXEL FLML FLDM FRX GALE GNBT GHDX GNVC GERN GILD GTXI HBIO HZSI IDIX IDIX IDIX IDIX IMGN	2.35 2.86 7.76 0.26 6.31 6.57 14.98 31.85 17.32 1.04 0.15 29.34 2.4 2.08 54.69 6.13 4.26 4.07 10.16 11.68 1.09 1.64 14.61	2.59 2.77 7.43 0.26 6.14 6.65 14.5 31.54 16.81 1.1 0.15 26.92 2.63 2 53.75 5.7 4.13 4.2 9.51 10.92 1.19 1.89 13.32	10.21 -3.15 -4.25 0.00 -2.69 1.22 -3.20 -0.97 -2.94 5.77 0.00 -8.25 9.58 -3.85 -1.72 -7.01 -3.05 3.19 -6.40 -6.51 9.17 15.24 -8.83	22.57 6 11.39 4 -3.70 11 29.26 191: 34.07 4 10.18 2: 4.16 73 3.45 1: 134.04 126 0.00 55 5.86 16 10.97 1: 42.86 47 32.52 595 86.27 26 6.44 1: 18.31 2: 30.81 502: 43.50 100	554 333 330 361 995 361 377 343 317 363 370 340 449 201 237 775 78

Company	Symbol	Close 2/3	Close 2/10	%Ch WK	ange YTD	Vol (000)
Immunomedics	IMMU	3.84	3.68	-4.17	10.18	1532
Incyte	INCY	17.66	16.96	-3.96	13.14	7306
Infinity Pharma	INFI	6.95	6.17	-11.22	-30.20	577
Inhibitex	INHX	25.74	25.96	0.85	144.44	8475
InterMune_	ITMN	16	14.5	-9.38	19.54	9682
Ironwood Pharma	IRWD	14.98	15.35	2.47	28.34	8140
ISIS Pharma	ISIS	8.8	8.33	-5.34	16.83	2054
Keryx Biopharma	KERX LXRX	3.6 1.67	3.2 1.71	-11.11 2.40	34.45 48.70	7045 2478
Lexicon Ligand Pharma	LGND	13.83	14.7	6.29	23.63	756
MannKind	MNKD	2.17	2.33	7.37	-10.38	
Map Pharma	MAPP	14.98	15.26	1.87	13.71	681
Maxygen	MAXY	5.73	5.49	-4.19	-2.49	391
MDŔŇA	MRNA	0.51	0.5	-1.96	-49.49	430
Medgenics	MDGN	3.64	5.64	54.95	126.51	230
Micromet	MITI	10.94	10.95	0.09		18457
Momenta Pharma	MNTA	16.55	15.27	-7.73	-12.59	5241
Myrexis	MYRX	2.76	2.81	1.81	4.85	129
Myriad Genetics	MYGN NABI	23.84 1.86	23.28 1.88	-2.35 1.08	11.39 0.00	2431 979
Nabi Biopharma Nektar Therap	NKTR	7.17	6.84	-4.60	23.02	5188
Neurocrine Biosci	NBIX	9.48	8.62	-9.07	0.47	3486
NeurogesX	NGSX	1.05	0.58	-44.76	-32.56	
NewLink Genetics	NLNK	6.97	7.25	4.02	2.98	89
NovaBay	NBY	1.36	1.41	3.68	14.63	569
Novavax	NVAX	1.49	1.35	-9.40	8.00	
NPS Pharma	NPSP	7.99	7.41	-7.26	13.13	4254
NuPathe	PATH	2.21	2.81	27.15	57.87	596
Omeros	OMER	5.9	6.32	7.12	58.00	416
OncoGenex Pharm		14.25	14.26	0.07	22.83	473
Oncothyreon	ONTY	7.91	8.4	6.19	10.38	
Onyx Pharma	ONXX	42.62	41.78	-1.97	-4.46	
Opko Health	OPK	5.28	5.14	-2.65	7.08	5063
Optimer Pharma	OPTR	13.21	13.54	2.50	11.07	2083
OraSure Tech	OSUR OREX	11.35	10.41	-8.28	13.52 88.20	2428
Orexigen Osiris Thera	OSIR	2.76 5.95	3.03 4.82	9.78 -18.99	-7.49	3939 613
Oxis International	OXIS	0.03	0.03	0.00	0.00	291
Pacific Biosciences		4.83	4.46	-7.66	67.67	2267
Pacira Pharma	PCRX	10.72	10.32	-3.73	20.84	380
Pain Therapeutics	PTIE	4.29	4.05	-5.59	8.58	321
Palatin Tech	PTN	0.59	0.66	11.86	57.14	337
Peregrine Pharma	PPHM	1.01	1	-0.99	-7.41	16518
Pharmacyclics	PCYC	19.3	23.23	20.36	54.25	7018
Pharmos	PARS	0.09	0.07	-22.22	40.00	15
Poniard Pharma	PARD	1.05	1.02	-2.86	-8.93	15
Pozen	POZN	4.74	4.42	-6.75	13.33	345
Progenics Pharma		10.03	9.51	-5.18	10.45	525
Protalix Biothera	PLX	6.13	6.4	4.40	29.29	781
Protein Design	PDLI QGEN	6.48	6.39 15.15	-1.39	9.31	10133 5269
Qiagen QLT Inc.	QLTI	15.91 7.16	7.62	-4.78 6.42	6.57	
Raptor Pharma	RPTP	7.39	7.79	5.41	25.24	2095
Regeneron Pharm		96.86	102.08	5.39	81.31	6951
Repligen	RGEN	4.11	4.2	2.19	18.64	96
Rexahn Pharma	RNN	0.6	0.6	0.00	62.16	319
Rigel Pharma	RIGL	10.48	9.43	-10.02	17.88	1446
Sagent Pharma	SGNT	22.38	20.94	-6.43	2.60	328
Sangamo Biosci	SGMO	4.55	4.24	-6.81	52.52	3011
Santarus	SNTS	4.94	4.85	-1.82	43.92	3044
Savient Pharma	SVNT	2.26	2.16	-4.42	-1.82	5742
SciClone Pharma	SCLN	4.99	5.1	2.20	20.00	769
Seattle Genetics	SGEN	19.53	18.59	-4.81	11.45	6410
Sequenom	SQNM SIGA	4.92	4.59 3.51	-6.71	53.28	14727
SIGA Tech Soligenix	SNGXD	3.75 0.79	0.71	-6.40 -10.13	-11.25	2998
Somaxon Pharma	SOMX	0.73	0.6	0.00	30.43	473
Spectrum Pharma	SPPI	14.35	14.1	-1.74	-3.75	7033
StemCells	STEM	1.08	1.01	-6.48	23.17	2702
Sucampo Pharma	SCMP	6.24	6.49	4.01	45.19	304
Synageva Bio	GEVA	35.25	35.72	1.33	34.13	115
Synta Pharma	SNTA	4.98	5.06	1.61	6.53	1643
Tálon Thera	TLON	0.89	0.92	3.37	119.05	701
Targacept	TRGT	6.38	6.07	-4.86	12.83	1188
Telik	TELK	0.18	0.18	0.00	0.00	3159
Tengion	TNGN	0.59	0.64	8.47	33.33	785
Theravance	THRX	18.59	16.53	-11.08	-25.44	2467
Titan Pharma	TTNP	1.35	1.34	-0.74	19.64	439
Transcept Pharma	TSPT TBIO	8.04	8.28	2.99	8.24	408
Transgenomic	TZYM	1.17 4.05	1.19 4.22	1.71 4.20	-9.85	1238 203
Tranzyme	1 4 1 IVI	4.00	7.22	4.20	43.05	203

Company	Symbol	Close 2/3	Close 2/10	%Ch	ange Vol YTD (000)
Trinity Biotech Trius Therap Unigene United Therap Vanda Pharma Ventrus Bioscient Verastem Vermillion Vertex Pharma Vical ViroPharma Vivus XenoPort Zalicus Inc Zogenix	TRIB TSRX UGNE UTHR VNDA CES VTUS VSTM VRML VRTX VICL VPHM VVUS XNPT ZLCS ZGNX	10.45 5.57 0.62 50.21 5.33 8.87 10.85 1.52 36.78 3.64 30.33 12.47 4.71 1.1	10.18 5.47 0.6 49.05 5.09 9.4 10.87 1.55 36.13 3.22 30.61 12.35 4.3 1.12 2.71	-2.58 -1.80 -3.23 -2.31 -4.50 5.98 0.18 1.97 -1.77 -11.54 0.92 -0.96 -8.70 1.82 -0.73	-0.20 157 -18.48 1830 20.00 140 3.18 3520 14.13 649 25.00 326 -4.65 37.17 634 10.29 17119 -28.29 9398 9.60 5126 27.06 10219 19.44 72 -6.67 5995 23.74 3379

LONDON STOCK EXCHANGE										
Company	Symbol	2/3	2/10	%WK	%YTD	Volume				
Antisoma Ark Therapeutic Asterand Oxford Biomedic Phytopharm Puricore Renovo Group SkyePharma Vernalis plc Note: Prices are	ATD CA OXB PYM PURI RNVO SKP VER		1.79 3.698 6.4538 3.216 8.625 67 16.753 36 25.125 ee.	-3.24 4.17 -16.73 -1.35 -3.31 10.38 0.00 4.65 29.89	-94.58 -73.68 -65.30 -71.41 -20.43 400.00 -42.03 -58.12 -71.12	17355 2459 2850 5115 1371 117 1589 157 6798				

TORONTO STOCK EXCHANGE									
Company S	ymbol	2/3	2/10 %WK	%YTD	Volume				
Adherex Technol Allon Therap BELLUS Health Bioniche Life Sci Cangene Isotechnika Lorus Therap Medicago MethylGene Oncolytics Biotec Protox Therap Resverlogix SemBioSys Gen Tekmira Pharma Thallion Pharma Theratechnologie YM BioSciences Note: Prices are	PRX RVX SBS TKM TLN s TH YM	0.24 0.26 0.04 0.77 1.74 0.15 0.18 0.29 5.4 0.35 1.65 0.1 2.12 0.17 2.69 2.3 in Canado	0.2 -16.67 0.24 -7.69 0.04 0.00 0.69 -10.39 1.75 0.57 0.13 -13.33 0.22 22.22 0.62 6.90 0.29 0.00 5.15 -4.63 0.3 -14.29 1.9 15.15 0.1 0.00 2.33 9.91 0.17 0.00 2.29 -14.87 2.26 -1.74 dian dollars.	344.44 -25.00 -77.78 23.21 -65.69 -21.21 238.46 -7.46 3.57 87.27 -64.71 -21.49 -50.00 150.54 54.55 -48.31 55.86	5 132 380 547 39 491 45 626 60 197 653 802 2859 57 215 477 180				

NOTES:

Trading volumes for Nasdaq, Amex and NYSE are recorded as the total number of shares traded (in thousands) on a weekly basis (cumulative Monday through Friday); the weekly and YTD % changes are from IPO completion, where applicable.

Average Percent Change Week: -1.05%

Range: -44.76% to +54.95%; Number Of Companies: 206 (does not include LSE or TSX; not market weighted)

Average Percent Change YTD: +22.25%

Range: -68.92% to +161.62%; Number Of Companies: 206 (does not include LSE or TSX; not market weighted)