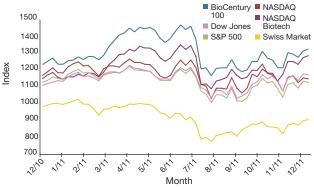
# 2011—Big biotechs gorge on debt

### Walter Yang

Although biotech stocks ended up and companies raised a record \$49 billion last year, excluding partnership monies, nearly three-fourths of that total came from debt deals. Moreover, \$32.3 billion of the debt was issued by only 11 public companies. Amounts raised from initial

# Stock market performance

The BioCentury 100 and NASDAQ Biotech have risen >28% over 24 months, whereas the S&P 500 is up only 13%.



# Global biotech venture capital investment

Venture funding was up 4% from 2010; Asian investments were the highest in 5 years partly attributable to two very large financings.



Table indicates number of VC investments and includes rounds where the amount raised was not disclosed. Source: BCIQ: BioCentury Online Intelligence

### Notable 2011 deals Amount Venture capital raised Round Date Company (lead investors) (\$ millions) number closed Valeritas (Welsh. Carson. 150 3 12-Sep Anderson & Stowe) Symphogen (Novo A/S) 133 5 6-Jan Tesaro (Kleiner Perkins Caufield & Byers) 101 2 21-Jun 5 Intrexon (not disclosed) 100 31-May Circassia (Imperial Innovations) 98 4 19-Apr Biocartis (Debiopharm) 97 3 17-Nov Portola (not disclosed) 89 Not disclosed 21-Nov IPOs

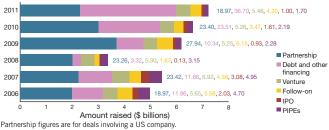
Company (lead underwriters)	Amount raised (\$ millions)	Change in stock price since offer	Date completed
Clovis Oncology (JPMorgan; Credit Suisse)	139.1	8%	15-Nov
Sagent (Morgan Stanley; Banc of America; Jefferies)	105.8	31%	20-Apr
Fluidigm (Deutsche Bank; Piper Jaffray)	86.3	-3%	10-Feb
Endocyte (RBC; Leerink)	86.3	-37%	4-Feb
RaQualia (Daiwa Securities)	79.4	-63%	8-Jul
Tranzyme (Citigroup)	57.4	-28%	1-Apr

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public offerings (IPOs; \$972.7 million), follow-ons and private investments in public equity (PIPEs) were meager, nearly a third less than totals in 2007, whereas debt raised dwarfed previous years. Private companies raised \$5.5 billion in 2011, up 6% from 2010.

# Global biotech industry financing

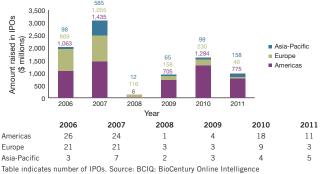
Excluding partnership monies, the industry raised \$49 billion in 2011, up 36% from 2010.



Fachership ingures are for deals involving a US company. Source: BCIQ: BioCentury Online Intelligence, Burrill & Co.

# Global biotech initial public offerings

Nineteen biotechs raised \$972.7 million through IPOs in 2011, down from 31 that raised \$1.6 billion in 2010.



### Notable 2011 deals (continued)

Mergers and acquisitions Value Date				
Target	Acquirer	(\$ millions)	announced	
Genzyme <sup>a</sup>	Sanofi	23,900	16-Feb	
Nycomed	Takeda	13,600	19-May	
Pharmasset	Gilead	11,000	21-Nov	
Cephalon	Teva	6,800	2-May	
Clinical Data <sup>a</sup>	Forest	1,116	22-Feb	
Enobia <sup>a</sup>	Alexion	1,080	28-Dec	
BioVex <sup>a</sup>	Amgen	1,000	24-Jan	
Plexxikon <sup>a</sup>	Daiichi Sankyo	935	28-Feb	

## Licensing/collaboration

Researcher	Investor	Value (\$ millions)	Deal description
Otsuka	Lundbeck	1,800	Co-develop/co-commercialize two Otsuka small molecules in phase 2 trial for psychiatry
Alios BioPharma	Vertex	1,560	Rights to preclinical HCV candidates ALS-2200 and ALS-2158
Aveo	Astellas	1,425	Co-develop Aveo's cancer candidate tivozanib outside of Asia
Boehringer Ingelheim <sup>b</sup>	Eli Lilly	1,193	Co-develop Boehringer's dipeptidyl peptidase-4 inhibitor linagliptin and BI10773, a sodium glucose co-transporter 2 inhibitor
Eli Lilly <sup>b</sup>	Boehringer Ingelheim	1,175	Co-develop Lilly's insulin analogs, LY2605541 and LY2963016; option to co-develop Lilly's anti-TGF-beta monoclonal antibody
Micromet	Amgen	983	Develop bispecific T-cell engager antibodies against three undisclosed solid tumor targets
Pharma- cyclics	Johnson & Johnson	975	Co-develop Pharmacyclics' hematological cancer com- pound PCI-32765, a Bruton's tyrosine kinase inhibitor
Evotec	Roche	830	Exclusive, worldwide rights to develop/commercialize Alzheimer's disease candidate EVT 302

<sup>a</sup>Value includes milestones. <sup>b</sup>Part of a single deal between the two companies. Source: BCIQ: BioCentury Online Intelligence