Bio Advance

Biotechnology Greenhouse of Southeastern Pennsylvania

Policy Hearing July 11, 2012 Marie Lindner, M.D.

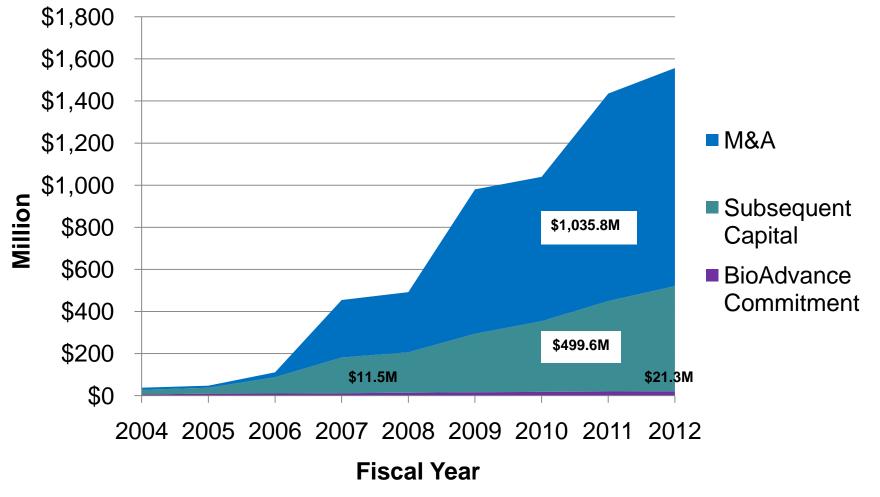
BioAdvance Snapshot

\$21.3M	invested since 2003 in
54	companies, developing
60	products, leveraging
\$1.5B	in additional dollars, for a
1:72	leverage ratio of state dollars to other capital, with

Bio

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Leverage of PA dollars 1:72



Note: As of June 5, 2012, Excludes NuPathe IPO (\$140 million valuation) and Avid commercial milestones (up to \$500 million)



Exits to Date

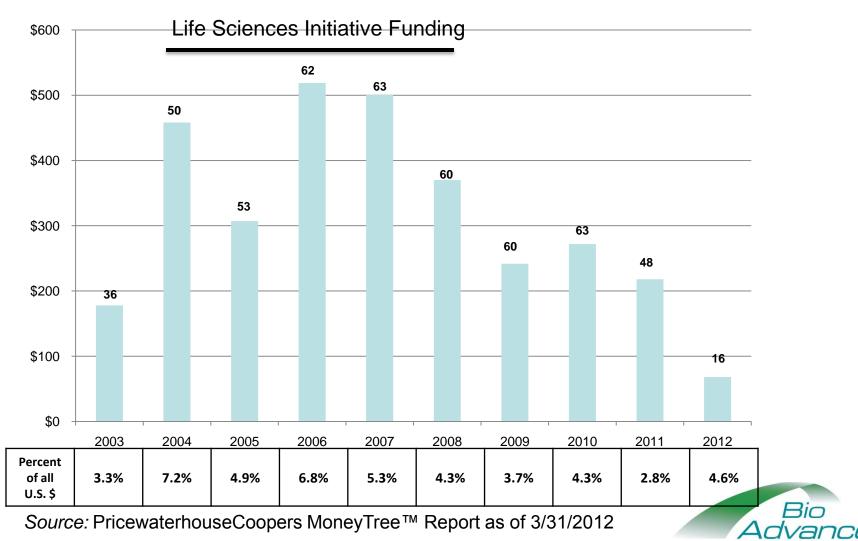
Company	Exit	Acquiror	Exit Value (upfront)
Gelifex	2004	Synthes	Confidential
Alteris	2005	Celldex	\$13 million
Sans Rosa	2005	Collagenex	Confidential
LumenVu	2007	SonoSite	Confidential
Acuity	2007	ОРКО	\$234 million
Protez	2008	Novartis	\$400 million (\$100 million)
NuPathe	2010	IPO	\$140 million
Avid	2010	Lilly	\$850 million (\$300 million)
Formae	2011	N/A	Repayment of Promissory Note



Biotechnology Greenhouse of Southeastern Pennsylvania

Life Sciences Venture Capital Trends in PA

Life Sciences Venture Capital in PA (all stages



Series A Life Sciences Financings: Will 2012 Be Better?

	2007	2008	2009	2010	2011	2012 (4 months)
US	175	185	115	101	96	32
TOTAL	\$1.67B	\$1.57B	\$1.02B	\$941.57M	\$859.16M	\$251.83M
PA	6	9	8	2	1	1
NJ	10	7	1	5	2	0
DE	0	0	0	0	0	0
MD	5	2	3	1	2	1
MA	26	30	12	26	21	10
CA	58	61	34	24	25	8
NC	3	3	3	1	2	0

Source: MedTRACK Venture Finance Database (4/30/2012)



Proportion of Life Sciences VC to all Sectors (\$ in millions)

	20 (3 mo	- —	20	11	20)10	20	09
				US				
All VC	\$5,751		\$29,119		\$23,363		\$19,668	
Biotech VC	\$780	(13.5%)	\$ 4,871	(16.7%)	\$ 3,841	(16.4%)	\$ 3,714	(18.9%)
Med Device VC	\$686	(11.9%)	\$ 2,840	(9.7%)	\$ 2,372	(10.2%)	\$ 2,595	(13.2%)
PA								
All VC	\$175		\$ 520		\$ 543		\$ 433	
Biotech VC	\$48	(27.4%)	\$ 116*	(22.3%)	\$ 180	(33.1%)	\$ 147	(33.9%)
Med Device VC	\$19	(10.9%)	\$ 101*	(19.4%)	\$83	(15.3%)	\$ 84	(19.3%)

Source: PricewaterhouseCoopers MoneyTree[™] Report as of 3/31/2012

* OnBioVC shows \$144M in 2011 life sciences venture capital in PA; MedTRAK shows \$227M; difficult to reconcile databases



Fund Raising Flat vs 2011

Decline in Fundraising by US Venture Funds (all sectors)

Year	Number of Funds	Venture Capital (\$M)
2005	243	29,042.7
2006	243	32,094.9
2007	233	36,206.4
2008	212	25,340.1
2009	160	16,400.7
2010	170	13,778.9
2011	181	18,767.6
2012 (3 months)	42	4,876.9

Source: Thomson Reuters and National Venture Association



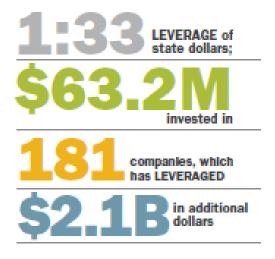
Total Greenhouse Data





717-635-2100 | www.lsgpa.com





LSG FUNDED. FDA APPROVED.

AdaptDx™	Infrascanner
Amyvid™	LumenVu Catheter
Borne/Vue **	Guidance System
DialSorb™	SmartSponge System™
EMMA**	SleepWeaver
M29™ Midterm	QSP-7™
Catheter System	
Matched Flicker	VERATHERM [™]

HIGH DEMAND FOR LSG INVESTMENT

Number of Requests Received for Funding 1555 Amount Requested \$724.7M

Percentage of Requests Funded 17%

LSGS CREATE HIGH-QUALITY PA JOBS

LSGs created more than 3200 jobs in Pennsylvania.

Average LS salary \$90,267 – 2X average Pennsylvania private sector wage of about \$45,348.

For every one LS job created, 5.8 additional state jobs are impacted.



Focus on Companies

Avid Radiopharmaceuticals

- Acquired by Lilly in late 2010 for \$800M (\$300M upfront)
- Remaining in Philadelphia at UCSC
- Product approved by FDA April 2012 (Avymid[®])
- 76 current employees
- 23 jobs posted on website
- NuPathe Pharmaceuticals
 - IPO August 2010
 - Awaiting FDA approval on Zelrix[®]
 - 30 employees
- Ceptaris
 - NDA pending
 - 18 employees
- Galleon
 - Early clinical stage
 - 18 employees



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Funding Greenhouses Goes a Long Way

BioAdvance and other Greenhouses

- Contracts completed with PA
- Bring other funding but can only do that if funding is encouraged, supported and available in PA
- Besides seed funding, series A funding is now dried up in state
- Jobs are draining out of state and these jobs leverage other jobs significantly
- Support of series A funding, accelerators, incubators and Greenhouses will help retain biotechnology
- Cooperative initiatives in PA with other funders, remaining pharmaceutical companies, academics and support organizations need to continue to grow
- Cooperation with state will help

