

Healthcare Investments and Exits

Biopharma | HealthTech | Dx/Tools | Device Q1 2022 Biopharma Update: BAHBL Dinner



Engage #SVBHealthcare

Investors Double Down on Venture Healthcare Promise

Dedicated Venture Capital in Healthcare , based on calculating investment and reserves based on norms:

\$15B in Healthcare Venture Funds ('19-'21) to be invested in <u>new portfolio</u> in
2022 and 2023¹

\$25.3B in 2019-2021 Healthcare Dedicated Venture Funds <u>still in reserve</u> to support underlying portfolio over the next 5+ years

2022 1H New HC Fundraises:

AH Bio \$1.5B

LSP \$1.1B

5AM \$450M + \$300M Opportunity

Catalio Nexus \$380M





Note: 1). Not including any new venture funds dedicated to healthcare raised in 2022, 2) Notable funds based on largest estimated allocation to venture healthcare. US Healthcare Venture Capital Fundraising defined as an approximation of healthcare investment dollars to be invested by firms that historically invest in +50% US companies. Source: PitchBook and SVB proprietary data.

Q1 Investment Remains Hot, On Pace for \$80B

Preliminary Q1 '22 investment data* shows \$19.6B raised in Q1 2022, which is down 17% from the historic record activity of Q1/Q2 2021 and similar to Q3 2021 pace. Still, Q1 is far ahead of 2020 activity (\$12-15B per quarter), providing evidence that while the breakneck pace of 2021 has slowed, investment activity (deals and dollars) is still far and away above any other year in history.

VC Dollars and Deals by Healthcare Sectors US and Europe



	2020			2021			Q1 2022		
Sectors (\$M)	us	Europe	Total	us	Europe	Total	us	Europe	Total
Biopharma	21,060	4,604	25,664	29.747	6,582	36,329	8,266	1,118	9,384
HealthTech ¹	9,616	1,357	10,973	25,602	2,579	28,181	4,093	1,184	5,277
Dx/Tools	8,430	1,675	10,105	10,617	2,414	13,031	2,537	487	3.024
Device	4.982	773	5.755	6,451	2,341	8,792	1,444	423	1,867
Total	44,088	8,409	52,497	72,417	13,916	86,333	16,339	3,212	19,550



Note: 1) HealthTech deals that overlap with other sectors are not included in healthtech totals on this slide but are included in healthtech-specific analyses. Financing data include private financings by venture-backed companies in the US and Europe. Dates of financing rounds are subject to change based on add-on investments. Source: PitchBook and SVB proprietary data. Annual Report

2022

Series A Growth Led by Anti-Infective, Neuro and Platform

Q1 '22 Update:

Seed/Series A deal activity is down in deal (60 deals in Q1 '22, off about 20% from 2021), and dollars (\$1.8B, off about 10% from 2021) but still ahead of 2020 activity.

Platform deals were 33% of all Seed/Series A in 2021, but just 22% in Q1 '22. We also observed more Oncology deals than Platform, which leads us to believe that we are starting to see Seed/Series A investment in underlying technologies that are closer to lead optimization and the clinic than in previous years.



Seed/Series A Dollars and Deals by Top Indications

	2019		2020		2021	
Indications	Dollars	Deals	Dollars	Deals	Dollars	Deals
Platform	\$846M	30	\$1.4B	44	\$2.8B	80
Oncology	\$926M	33	\$1.3B	51	\$1.9B	72
Neurology	\$146M	20	\$850M	28	\$1.0B	45
Anti-Infective	\$101M	9	\$139M	8	\$409M	23
Orphan/Rare	\$727M	12	\$518M	19	\$312M	14
Auto-Immune	\$143M	6	\$241M	6	\$291M	8



Largest 2022 Q'1 Seed/Series A Deals



Company went public

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Note: 1) Seed/series A includes first-time investments from institutional or corporate venture investment in the US and Europe and any first-round investments equal to or greater than \$2M, regardless of investor. 2) This company overlaps with the healthtech sector and is included in both sets of sector-specific analyses. Dates of financing rounds are subject to change based on add-on investments. Source: PitchBook and SVB proprietary data.

Less Series A Activity From Venture Investors Looming?

Are traditional venture investors slowing down investment pace?

Series A deal activity would point to a "no" answer, but if you look at traditional venture/corporate investors (passing the sniff test) we have seen a significant decrease in Series A investment in two of the last three quarters.

We think that provides additional data points to the anecdotal feeling of a slow down in investment pace.

Names to monitor with more series A biopharma activity in Q1 '22: SV Health, Red Tree, Vida and Catalio Capital. Series A Activity by Known Venture/Corporate Investors (\$5M+ Seed/A)



Qtr/Yr	Seed/Series A Deals \$5M+	Known VC/Corp Group	% Known	Median Deal Size (\$M) of Known Deals	Median Pre- Money (\$M) of Known Deals	Median Deal Size (\$M) Overall	Pre-Money Overall
Q2 19	26	17	65%	\$50	\$16	\$18	\$16
Q3 19	23	15	65%	\$25	\$17	\$17	\$16
Q4 19	26	16	62%	\$25	\$18	\$15	\$20
Q1 20	34	17	50%	\$35	\$30	\$19	\$18
Q2 20	37	29	78%	\$25	\$19	\$22	\$16
Q3 20	48	29	60%	\$25	\$15	\$15	\$12
Q4 20	55	31	56%	\$42	\$20	\$25	\$20
Q1 21	48	21	44%	\$50	\$28	\$28	\$25
Q2 21	55	30	55%	\$41	\$34	\$20	\$30
Q3 21	48	16	33%	\$52	\$22	\$20	\$19
Q4 21	58	30	52%	\$43	\$25	\$15	\$18
Q1 22	44	13	30%	\$65	\$45	\$17	N/A



Funding Historically Strong but Off 2021 Highs

Q1 '22 Update:

\$9.2 B in Q1'22 appears to put Biopharma on track for a record year after two successive down guarters.

However, the number is inflated by the \$3.2B outlier financing by Altos Labs. If you remove this deal, biopharma has another down guarter, which is similar to what we are hearing in the market: Interest in investing but at a slower deal pace.

We think 2022 into 2023 will be dominated by insider rounds as syndicates look to protect valuations. 2022 will likely be closer to 2020 investment dollars than 2021.



Largest Deals in Biopharma (Q1'22)²





Metabolic \$190M Oncology \$175M Platform \$175M

by Top Indications										
US	and Europe	20 1	19	202	20	2021		K		
	Indications	Dollars	Deals	Dollars	Deals	Dollars	Deals			
	Platform	\$3.1B	79	\$6.4B	99	\$11.4B	187	1		
	Oncology	\$5.9B	122	\$7.4B	153	\$10.7B	224			
	Neurology	\$784M	49	\$2.3B	68	\$3.5B	98			
	Auto-Immune	\$445M	12	\$616M	15	\$1.7B	30			
	Anti-Infective	\$856M	23	\$1.2B	37	\$1.7B	47	_		
	Orphan/Rare	\$2.0B	41	\$2.1B	41	\$1.2B	38			

Biopharma

Biopharma Deals and (Dollars)

2022 Q1 Highest Valued Private Companies²

	Indication	Post-Money Value
eikon	Platform	\$3,017M post
KALLYOPE	Platform	\$1,136M post
LifeMine	Platform	\$525M post
THIRD HARMONIC	Auto-Immune	\$505M post
dewpoint _x	Platform	\$500M post
* ENDEAVOR	Respiratory	\$361M post
ELECTRA	Auto-Immune	\$334M post
Enliven	Oncology	\$320M post
VESTAR CON	AgBio	\$311M post
KORRO	Orphan/Rare	\$296M post



Note: 1) The LIPO (Likely to IPO) list tracks Top 15 Crossover-funded private mezzanine deals (\$40M+) as a proxy for IPO sentiment and pipeline. 2) Only includes private post-money values from publicly disclosed 2022 Q1 financings in PitchBook. Financing data include private financings by venture-backed companies in the US and Europe. Dates of financing rounds are subject to change based on add-on investments. Source: PitchBook and SVB proprietary data.

Record Funding Trails Off in 2H as LIPO Activity Wanes

We see continued decline in LIPO deals since the apex in Q1 '21. Marketed decrease (~50%) starting in Q4 '21.

Clear evidence of a reduction (but not a wholescale withdrawal) of the mezzanine crossover round.

While the overall number of crossover funded mezz deals reduced, we did note that the deals that were completed were on the higher side for both deal size (\$100M) and pre-money valuation, with Q1 median pre-money significantly higher than previous quarters (flight to quality?). LIPO Deal Activity in Biopharma - \$40M Financings by Top 15 Crossover Investors



Quarter	LIPO Deals	Median Deal Size (\$M)	Median Pre-Money (\$M)	Currently Private (cumulative)	Currently Public (cumulative)
Q1 19	16	\$66	\$136	7	9
Q2 19	13	\$82	\$160	11	18
Q3 19	11	\$102	\$125	12	28
Q4 19	11	\$85	\$100	15	36
Q1 20	18	\$108	\$245	18	51
Q2 20	22	\$86	\$150	26	65
Q3 20	33	\$92	\$140	39	85
Q4 20	21	\$87	\$140	49	96
Q1 21	48	\$100	\$184	71	122
Q2 21	35	\$105	\$200	101	127
Q3 21	29	\$90	\$169	128	129
Q4 21	16	\$102	\$172	144	129
Q1 22 🔶	15	\$101	\$235???	N/A	N/A

Note: 1) The LIPO (Likely to IPO) list tracks Top 15 Crossover-funded private mezzanine deals (\$40M+) as a proxy for IPO sentiment and pipeline.
2) Only includes private post-money values from publicly disclosed financings in PitchBook. 3) These companies overlap with the healthtech sector and are included in both sets of sector-specific analyses. Financing data include private financings by venture-backed companies in the US and Europe. Dates of financing rounds are subject to change based on add-on investments. Source: PitchBook and SVB proprietary data.

Company has since gone public

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Record Funding Trails Off in 2H as LIPO Activity Wanes

LIPO Deal Activity in Q1 2022:

More early development stage LIPO deals than anticipated – anecdotally heard that crossovers looking for clinical stage assets.

T. Rowe (3), SoftBank (2), Surveyor (2) among more active investor names that are not on our Top 15 Crossover List.

Increase in median step-up (2.3x) from venture to mezz round compared to what we saw in 2020 and 2021, which was 1.4-1.8x.

More Series A LIPO deals than I expected to see – most of those had fairly small seed rounds before.

Q1'22 LIPO Deal Activity in Biopharma - \$40M Financings by Top 15 Crossover Investors

		-					
Company	Date (Q1)	Series	Size (M)	Stage/Indication	Pre-Money (\$M)	Step- Up	Notable New Investors
Avenge	1/5	A*	\$45	Pre-Clin/Onco	\$49	3.5x	Perceptive (lead), Rock Springs, CAM
Indapta	2/10	A*	\$50	Pre-Clin/Onco	\$40	2.4x	RA Capital, Leaps, Vertex
Curevo	2/10	А	\$60	Ph II/Anti-Inf	N/A	N/A	RA Capital, Janus
Ceptur	1/19	A*	\$75	Pre-Clin/Platform	N/A	N/A	Janus, Perceptive, BMS, Qiming, VenBio
Electra	2/16	В	\$84	Ph I/Auto-Imm	\$250	6x	Cormorant, Cowen, RA, Redmile
Enliven	1/19	В	\$85	Pre-Clin?/Onco	\$235	2.2x	Cormorant, Janus, Boxer, <mark>Surveyor</mark>
Septerna	1/27	А	\$100	Pre-Clin/Platform	\$45	N/A	Casdin, Invus, BVF
Endeavor	2/6	В	\$101	Ph II/Resp	260	2.1x	Perceptive, Avidity, <mark>T.Rowe</mark>
Plexium	2/23	В	\$102	Pre-Clin/Onco	\$120	1.2x	RA, <mark>Softbank</mark> , TCG, Pivotal, BVF, <mark>Surveyor</mark>
3rd Harmonic	2/16	В	\$105	Ph I/Auto-Imm	\$400	3.3x	RA, GA, Boxer
Saliogen	1/5	В	\$115	Pre-Clin/Platform	\$280	6.2x	Fidelity, <mark>T.Rowe</mark> , D1, EPIQ, Invus
Korro	1/5	В	\$116	Pre-Clin/Orph/Rare	\$180	1.2x	Fidelity, Cormorant, Monashee, Eventide, Point72
Leyden	1/25	В	\$125	Pre-Clin/Anti-Inf	N/A	N/A	Invus, <mark>Softbank</mark>
LifeMine	3/23	С	\$175	Pre-Clin?/Platform	\$350	1.4x	Fidelity, Invus, 3W, GSK
Eikon	1/6	В	\$518	Pre-Clin?/Platform	\$2,500	10.1x	EcoR1, ADIA, <mark>T.Rowe</mark> , Soros

Company has since gone public



Most Active¹ New Biopharma Investors

US and Europe (2020-2021)

V	/enture Activity Overall	Late Stag	ge/Crossover Activity Overall		Platform		Oncology		Neurology
44	Beathcare Fund Management	76	ra capital	17	CASDIN CAPITAL UPE SCHOOL AVERTHINGS	32	Ra capital	11	SV HEALTH INVESTORS
36	SAMSARA BIOCAPITAL	55	Janus Henderson	15	A L E X A N D R I A.	26	Janus Henderson	9	ADVISORS
23	SV HEALTH INVESTORS	55		15	RACAPITAL	26	LOGOS SCAPITAL	7	ALEXANDRIA.
21	HBM Healthcare Investments	49	Cormorant Asset Management	10	LOGOS XCAPITAL	21	BOXER CAPITAL	6	DOLBY FAMILY V E N T U R E S
21	OMEGA FUNDS	44		10	Realthcare Fund Management	21	Cormorant Asset Management	6	RACAPITAL
20	POLARIS PARTNERS	Cor	rporate Activity Overall	10	INVUS	18	Fidelity	5	F · PRIME CAPITAL PARTNERS
19	novo holdings	49	ALEXANDRIA.	9	Cormorant Asset Management	16	U NOVARTIS	5	NEG=VCAPITAL
18	ven Bio	21	G/	9	Janus Henderson	15	BVF PARTNERS L.P.	5	
16		19	Pfizer Ventures	9	SAMSARA BIOCAPITAL	15	CorbiNed	5	PsyMed Ventures
15	F PRIME ² CAPITAL PARTNERS	15		8	ARCH ² VENTURE PARTNERS	13	CASDIN ² CAPITAL	5	CASDIN CAPITAL UPE SCHOOL AVESTHEMES



Note: 1) Most active new investors calculated as new (first-time) investments in US and European companies from 2020-2021. Dates of financing rounds subject to change based on add-on investments. Corporate parent and corporate venture investment are combined under Corporate Investor. 2) Other investors not listed due to space limitations. Alexandria Investments typically averages \$2M per deal, AREE, Inc. Earnings 12/31/19. Source: PitchBook and SVB proprietary data.



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Deep Dive: Computational Bio Analysis



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Comp Bio: A New Paradigm of Drug Discovery & Development

To qualify as a comp bio company in this analysis, per review of their website, the company must (1) focus on drug discovery or development (biopharma/R&D tools), (2) apply <u>novel</u> <u>computational tools</u> to gain biological or chemical insights, (3) have the ability or potential for <u>platform creation</u> and (4) have a team with <u>computational</u> <u>experience</u>. Overall Biopharma/R&D Tool (707 Seed/Series A¹ Deals): Comp Bio (129 Seed/Series A Deals):

Investment by Year



Investment by Region US and Europe

Top Regions	2019	2020	2021
Massachusetts	\$224M (8)	\$366M (11)	\$1.1B (18)
NorCal	\$386M (10)	\$104M (3)	\$317M (6)
United Kingdom	\$33M (1)	\$0M (0)	640EN4(0)
8.	333141 (T)	Ş01VI (U)	\$135M (8)
New York	\$6M (1)	\$32M (3)	\$135M (8) \$125M (5)

Deep Dive

2022

Comp Bio (129 Seed/Series A Deals): Top Modalities and Applications² US and Europe, 2019-2021







Comp Bio: Early-Stage Investment Leaders

We landscaped a subset of 70 smaller early-stage deals (\$2.5M-\$10M each) since 2019. Since their first seed/series A deal, 16 (23%) have already raised a follow-on financing.

Many traditional biopharma investors are not comfortable underwriting to early stage platform development, instead wanting to underwrite to assets.



Raised at least one follow-on deal



Comp Bio: Building Value in Follow-On Deals and Exits

For comp bio companies that already raised both a seed/series A and another follow-on deal in the past three years, the step-ups² have been impressive, with a median step-up of 2.1x. Traditional life sciences investors and crossovers joined many of these followon deals.

To unlock this investor set, companies must often validate their platform through partnerships, which are key to (1) demonstrate interest from pharma, (2) leverage revenue/milestones to defray costs and (3) pique M&A interest. Comp Bio (22 Seed/Series A¹ Follow-On Deals): Step-Ups² US and Europe, 2019-2021



Comp Bio (All Deal Stages): 2021 Top Post-Money Values (US and Europe)

	Step-Up From Last Round ³		t Recent al Size	Post-Money Valuation
insitro	3.4x	\$400M		\$2.5B
XtalPi		\$400M		\$2.0B
O atai	5.0x	\$	157M	\$2.0B
Generate: Biomedicines	15.3x	\$370M		\$1.5B
👕 immunai		\$274M		\$1.4B
🔯 owkin	4.9x	\$180M		\$1.3B
😑 Exscientia	2.8x	\$	228M	\$1.1B
🛞 Neumora		\$:	100M	\$800M
TESSERA THERAPEUTICS	13.8x	\$230M		\$780M
	1.5x	\$:	135M	\$585M
	Company went p	oublic	Compar	iy was acquired



Note: 1) This analysis includes any first-round investments equal to or greater than \$2.5M. 2) For companies that raised seed/series A and at least one followon since 2019, step-ups calculated as pre-money of first follow-on divided by post-money of seed/series A. 3) Step-ups calculated as pre-money of most recent deal divided by post-money of last round. Step-ups included for companies with valuations in PitchBook. Source: PitchBook and SVB proprietary data.

Comp Bio: A New Paradigm of Drug Discovery & Development

By quarter, Q1 '22 showed similar investment dollars to Q1 and Q3 of 2021, while on the lower side of deal numbers.

More traditional Biopharma investors getting involved!

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Overall Biopharma/R&D Tool (375 Seed/Series A¹ Deals): Investment by Quarter (US and Europe, 2021-Q12022)



Largest Comp Bio Seed/A Deals in Q1 '22:

Seismic Therapeutic \$110M @\$115M pre (Lightspeed, Samsara, Polaris, Boxer, GV)

TRexBio \$85M (Polaris, SV Health, JJDC, Eli Lilly, Pfizer)

TenSixteen Bio \$40M (Foresite, GV)

Volta Labs \$25M @\$61M pre (Soma Capital)

Arrepath \$20M (BI, Insight Partners, PTX, Innospark)

Deep Dive

2021

Biopharma M&A and IPO Activity Global



IPOs Set Record, Performance Lags

In Q1 2022:

7 Venture-backed (5 NASDAQ, 1 SHSE, 1 ENXTPA), well-below 2021 pace.

A) Biopharma Private M&A Deals and IPOs by Year



B) Biopharma Exit Values by Year



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IPOs Give Back Performance, 2022 Pace Lags

C) Q1 2022 IPO Performance to IPO price



In Q1 2022:

Company	Step-up Mezz/IPO	MKT Cap at IPO	End Q1 IPO Performance
Vigil Neurosciences	1.2x	\$396M	-50%
Cincor Pharma	1x	\$584M	+10%
Amylyx			
Pharmaceuticals	1.5x	\$1,070	-32%
Arcellx	1x	\$503M	-7%
AN2 Therapeutics	.8x	\$281M	0
Shouyao Holdings	.9x	\$936M	-35%
Aelis Farma	N/A	\$198M	-3%

IPO Class	<u># of IPOs</u>	Q1 '22 Median/Avg	<u> # of +%</u>
<u>Deals</u>			
2019	50	-43%/+10%	17
Pre-Clin/Ph I	19	-11%/+1%	9
2020	84	-51%/-24%	23
Pre-Clin/Ph I	43	-44%/-20%	13
2021	92	-57%/-45%	12
Pre-Clin/PhI	45	-53%/-42%	5

Q2' 22 IPOs:

Hillevax – JV Spinout + Frazier, then \$135M Mezz Rd. Went public 4/29/22.

Mkt Cap at IPO \$513M, raising \$200M. Phase II Anti-Infective. Trading down 14% so far (5/16)

Pepgen – Venture Series A (RA-led, Mezz (lots of X-overs) then public 5/6/22.

Market Cap at IPO of \$269M, raising \$100M. Phase I Neuro. Trading down 2% so far (5/16)



Private M&A Activity Down; Pre-Clinical Deals Reward VCs

Early-stage pre-clinical and phase I deals continued to dominate private M&A in 2021. The number of preclinical deals (nine) jumped to set a new yearly record.

Biopharma Private M&A Deals by Stage¹



The 2021 pre-clinical deals had a median <u>\$31M</u> in venture capital invested and exited in a median 5.2 years from the close of series A. <u>The median upfront deal</u> value was \$350M, with an additional \$358M in milestones. The median upfront multiple was an impressive 5.6x. Of the nine deals, three were acquired for \$1B+ in total deal value in 2021: Vividion Therapeutics (by Bayer), Teneobio (by Amgen) and Amunix (by Sanofi).

Note: 1) Stage defined as last completed clinical trial prior to M&A announcement. M&A defined as all private, venture-backed M&A deals with at least \$75M upfront, globally.

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Private M&A Values Up Since '19; Will Private M&A Dry Up in '22?

Heady up front payments for private M&A, but will we see price pressure based on public market comps?

And to that point, will 2022 M&A focus on newly public undervalued companies to the detriment of private M&A (with static postmoney valuations)?

Last two years 50%+ of \$500M exits were pre-clin or Ph I.

	Biophar	ma M&A Deal	Median Value	s by Year	r	2021 Notable M&A Deals			
);	Year	Upfront	Total Deal	Years to	o Exit		IDION kymab	Platform	88
	2021 \$310M		\$513M	\$513M 5.2			Therpeuter		
	2020	\$300M	0M \$770M)	SANIFIT		Cardiovascular	
	2019	2019 \$250M		\$600M 2.7				Neurology	
	2018	\$140M	\$480M	3.1		THERAPEUTICS		Neurology	
	2017	2017 \$171M		3.5	;	LENGO Oncoceutics		Oncology	
	2016	\$200M	\$600M	\$600M 5.9					
	2015	\$200M	\$570M	4.2		P H /	Uro/Gyn		
	Year	Year # of \$500M+ Pvt Stages M&A (Total Value)			Indication		Acquirers		
						Onc, , Neuro, Ophth, 'Rare, Uro/Gyn			is,
	2020	11	2 Pre-Cli 5 Ph II	2 Pre-Clin, 4 Ph I, 5 Ph II		Neuro, Anti-Inf, Plat, Uro/Gyn	Bayer (2), BI, BMS, Eli, Gilead (2), Merck, Novo, Novartis, Shionogi		
	2019	10		3 Pre-Clin, 4 Ph I, 3 Ph II		Orphan/Rare, 2 Plat, , Auto-Imm, Resp.	Alkermes, Bayer, J&J, Merck, Novartis, Pfizer, Roche, Vertex (2), Zambon		
	2018	7		2 Pre-Clin, 3 Ph I, 1 Ph II, 1 Ph III		Orph/Rare,	Alexion, Celgene, Eli Lilly, J&J, Lundbeck, PTC, Roche		



Healthcare Outlook: 2022 and Beyond (From January '22)

Fundraising and Investments: Venture healthcare fundraising in the US will likely hit \$16B and investment into companies in the US and Europe will total about \$64B, as VCs slow down their deal pace but continue to invest from recently-closed funds.

Biopharma: LIPO deals will mirror Q4 2021 activity or decrease, leading to less investment in the sector and lower valuations for series B and later deals. We think IPO activity will be down about 50% (50+IPO), favoring companies with a differentiated but straightforward story and strong insider syndicate. M&A should pick up in 2022 but will focus more on newly-public companies already trading at a discount and private pre-clinical deals.

Authors



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Jonathan Norris spearheads strategic relationships with many healthcare VC firms and serial entrepreneurs. In addition, he helps SVB Capital through sourcing and advising on limited partnership allocations and direct investments.

Jonathan speaks at major investor and industry conferences about healthcare VC trends. He has 20+ years of banking experience working with healthcare companies and VC firms.

Jonathan earned a B.S. in business administration from the University of California, Riverside, and a J.D. from Santa Clara University.



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Raysa Bousleiman is responsible for conducting data-driven analyses on the global innovation economy that SVB serves. In this role, she supports global research efforts that explore investment, fundraising and exit dynamics in the venture ecosystem.

Prior to SVB, Raysa worked as a healthcare consultant focusing on health systems revenue cycle management and operations.

Raysa graduated from the University of Southern California with honors, receiving a B.S. in human biology.



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Beatriz Atsavapranee analyzes data on healthcare venture investments and exits to identify emerging trends and synthesize key takeaways. She also produces deep dives into specific technical areas across a range of subsectors.

Outside of SVB, Beatriz is a Ph.D. candidate at Stanford University. She has more than seven years

of experience developing new biomedical technologies, from peptide-based therapeutics to microfluidic and bioinformatics tools.

Beatriz earned a B.S. in bioengineering from the California Institute of Technology.

Glossary

Descriptions

All-In Deal defined as an acquisition where the full deal value is paid at deal close.

Series A defined as all first-round institutional or corporate venture investment, and all first-round investments equal to or greater than \$2M, regardless of investor.

Upfront Payments defined as initial proceeds from an acquisition paid upon the close of a structured deal; they do not include milestones.

Milestones to be Earned defined as proceeds from an acquisition that are paid once predetermined milestones are met.

Total Deal Value defined as the full value of the acquisition, including milestones to be earned.

Time to Exit defined as the time from the close of a company's first institutional round of financing to the exit.

Step-Up defined as the valuation change from the last round post-money value to the next round pre-money value.

Corporate Investor defined as a corporate venture and parent company investment into venture-backed companies.

Special Purpose Acquisition Company (SPAC) defined as a company with no commercial operations that is formed strictly to raise capital through an initial public offering (IPO) for the purpose of acquiring an existing company.

De-Special Purpose Acquisition Company (De-SPAC) defined as a transaction consisting of a completed merger between a private operating company and a publicly traded SPAC.

Computational Biology: To qualify as a computational biology company in this analysis, per review of their website, the company must (1) focus on drug discovery and/or development (biopharma/R&D tool), (2) apply novel computational tools to gain biological and/or chemical insights, (3) have the ability or potential for platform creation and (4) have a team with computational experience.

European Data: All European data and statistics include data from the European Union and the United Kingdom.

Device Regulatory Definitions

Non-approved defined as a device product that has not obtained regulatory clearance or approval for its product.

CE Mark defined as a device company that has CE Mark approval but has not received FDA approval. CE Mark is a European Union designation that is typically less difficult to obtain than FDA approval, and the approval process often has a faster timeline.

US Commercial defined as a device company that has received FDA approval or clearance of its product and usually is in a commercial stage.

Indication Definitions

Neurology defined as CNS, pain and psychology companies, as well as neurology implant technologies.

Non-Invasive Monitoring (NIM) defined as medical data collection through sensors and other technology worn outside the body.

Dx Tests defined as proprietary yes/no diagnostic tests.

Dx Analytics defined as actionable data analytics to help determine treatment.

R&D Tools defined as research equipment/services for biopharma and academia.

HealthTech Subsector Definitions

Provider Operations defined as companies that provide solutions to increase the efficiency and accuracy of provider-provider, and provider-patient interactions.

Alternative Care defined as companies that provide primary or specialty care outside a hospital or private practice.

Clinical Trial Enablement defined as companies that develop solutions to accelerate drug discovery and the digitization of clinical trials.

Healthcare Navigation defined as companies that guide users to relevant providers and/or payers based on their needs.

Medication Management defined as companies that aid users in access and adherence to their prescribed medication.

Wellness & Education defined as companies that inform users of healthy lifestyle and medical best practices.

Biopharma Top 15 Crossover Investors

Biopharma Top 15 Crossover Investor defined as a public-minded investor who strategically invests in private companies. The Top 15 list includes: RA Capital, Perceptive Advisors, Deerfield Management, Redmile Group, Cormorant Asset Management, The Invus Group, Fidelity (et al.), EcoR1, Casdin Capital, Janus, Logos, Viking, Citadel, Rock Springs Capital, and Wellington Management.

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For nearly 40 years, Silicon Valley Bank has helped innovators, enterprises and their investors move bold ideas forward, fast. SVB provides targeted financial services and expertise through its offices in innovation centers around the world. With commercial, international and private banking services, SVB helps address the unique needs of innovators.

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