





# 2021 Annual BD Deals Report for China Pharmaceutical Industry

MyBioCapital

#### **Declarations & Data Source**

- Data source: data and info officially disclosed to public
- Data analysis: the data may be not complete, the analysis only based on the available statistics
- For purpose of reference only. For commercial purpose is not allowed
- This report does not constitute any investment advice



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- Dealers Analysis on 2021 Cross-boarder License-in Deals

#### Cross-boarder License-out Deals

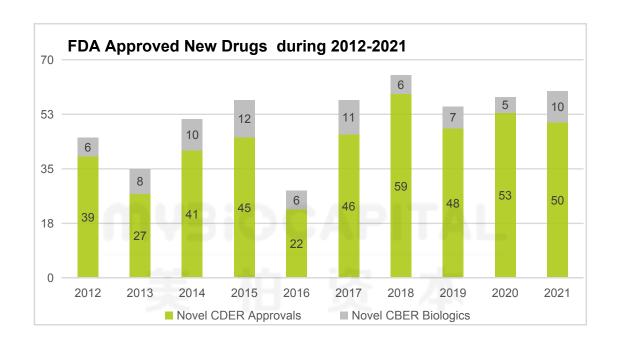
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#### Deals Between Chinese Bios

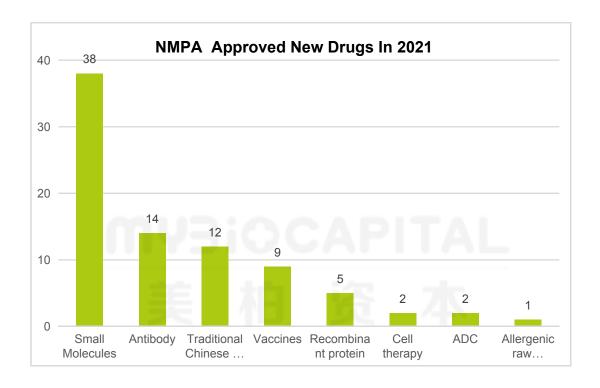
Summary



#### 2021 New Drug Approval No. / FDA-60, NMPA-83



According to Informa latest statistics, 60 new drugs have been approved by FDA in 2021, with approval no. ranged from 57 to 66 in recent 5 years. Look back to the 10 years' data, 2021 has been among one of the top 3 numbers.

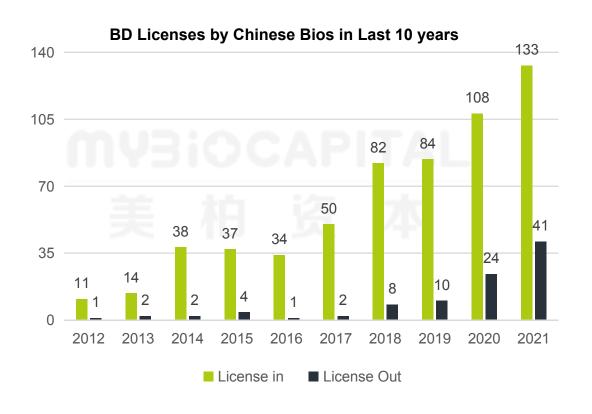


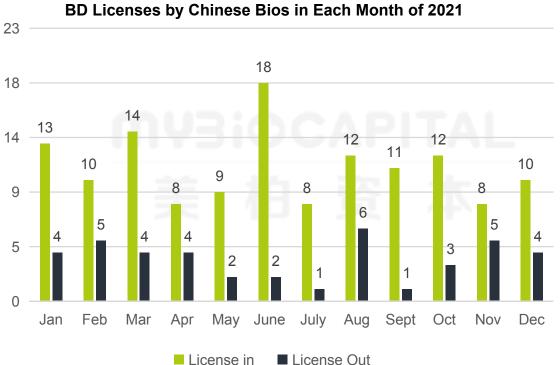
Based on PharmaGo database statistics, 83 new drugs have been approved by NMPA in 2021, among which 51 from China and 32 from overseas. From therapeutic category aspects, 38 chemical drugs, 33 biologicals (including antibodies, recombinant proteins, ADCs, vaccines, cell therapies, allergenic products, etc.), 12 Traditional Chinese Medicines have been approved in 2021.



#### Cross-boarder BD deals increasing YOY, High no. in 2021, Deals available in each month

With fast development and improvement of the Chinese pharmaceutical market, the BD deals by Chinese Bios have jumped from very junior phase into now rapid growing stage. The license-in deal numbers have been in continuous increase since 2016. License-out deal numbers also increased significantly since 2019. The no. of License-in and License-out deals in 2021 is 133 and 41, respectively. Both License-in and License-out deals are available in each month of the year,



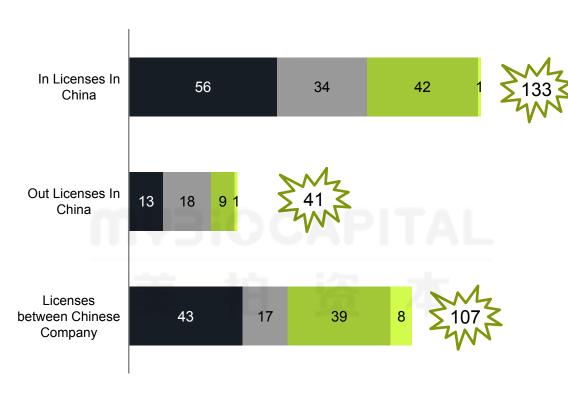




<sup>\* 2017~2020</sup> data based on Pharmacodia report, 2021 data based on MyBio statistics

#### Ranking on No. of Licenses in 2021 by Chinese Bios

According to MyBio data statistics, totally 281 BD licensing deals occurred in 2021 in China pharmaceutical industry.



- 1. The 281 deals include 174 cross-boarder licenses and 107 licenses between Chinese bios.
- 2. The 174 cross-boarder licenses include 133 License-in deals and 41 License-out deals.
- 3. There're totally 107 licenses between Chinese bios. Co-development has been the major collaboration model.

Note: the data may be not so complete, for reference only
Data source: MyBio data
Data collected till: Dec-31-2021

	Ranking on No. of	f Licenses in 202	1 hy Chinese	Rios (Table 1/3	8)	
Ranking	Chinese Bios	Cross-boarder License-in	Cross- boarder	License-in Between	License-out Between Chinese Bios	Total
1	Fosun Pharma	3		4	2	9
2	Innovent Bio	3	1	2	3	9
3	Beigene	3	2	3		8
4	Zai Lab	7		1		8
5	Hengrui Pharma	2		5		7
6	Huadong Medicine	5			2	7
7	XtalPi Inc.				7	7
8	Bio-Thera	1	4		1	6
9	CSPC Pharma		1	4		5
10	Hansoh Pharma	3		1	1	5
11	JingXin Pharma	2		3		5
12	Junshi Biosciences	1	2	1	1	5
13	Kintor Pharmaceutical		1	2	2	5
14	LianBio	5				5
15	Luye Pharma		3		2	5
16	Sino Biopharmaceutical	1	1	2	1	5
17	HitGen Inc.	1	1		2	4
18	Antengene Corp.	2			2	4
19	Genetron Holdings				4	4
20	Sinopharm Group			4		4
21	Haisco Pharmaceutical	2	1	1		4
22	Cstone Pharmaceuticals	1			3	4
23	Shanghai Pharmaceutical			4		4
24	Asieris	1			3	4
25	Biocytogen				3	3
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#### Ranking on No. of Licenses in 2021 by Chinese Bios

Ranking on No. of Licenses in 2021 by Chinese Bios (Table 2/3)											
Ranking	Company	Cross-boarder License-in	Cross-boarder License-out	License-in Between Chinese Bios	License-out Between Chinese Bios	Total					
26	CANbridge Pharma	3				3					
27	BrightGene	1		2		3					
28	Inmagene Bio	2		1		3					
29	Nhwa Pharma	3				3					
30	Henlius Pharma	1			2	3					
31	JI XING Pharma	3				3					
32	Arctic Vision	3				3					
33	Alphamab Oncology				3	3					
34	China Medical System			3		3					
35	Sperogenix			1	2	3					
36	StoneWise			3		3					
37	Winhealth Pharma	3				3					
38	Simcere Pharma	3				3					
39	EVEREST MEDICINES	2			1	3					
40	Fukang Pharma				3	3					
41	Allist Pharma		1	1		2					
42	Thousand Oaks Bio			2		2					
43	Baidu		1	1		2					
44	Boan Biotech	1	1			2					
45	Tennorx		1		1	2					
46	TOT BIOPHARM				2	2					
47	HiFiBiO		2			2					
48	Ascletis Pharma			1	1	2					
49	STA Pharmaceutical			2		2					
50	Hutchison Pharma	1			1	2					

Ranking on No. of Licenses in 2021 by Chinese Bios (Table 3/3)							
Dankina	Commonw	Cross- boarder	Cross- boarder	License-in Between	License-out Between	Total	
Ranking	Company	License-in	License-out	Chinese Bios		Total	
51	Abbisko Therapeutics				2	2	
52	Prophetgenomics				2	2	
53	CR-DOUBLE CRANE	2				2	
54	Jemincare		1		1	2	
55	Jacobio Pharmaeuticals		1	1		2	
56	GenFleet Therapeutics				2	2	
57	Keymed Biosciences				2	2	
58	Luoxin Pharma	2				2	
59	InnoCare Pharma	1	1			2	
60	OcuMension	2				2	
61	Qilu Pharma	2				2	
62	Burning Rock Dx			1	1	2	
63	SciNeuro Pharmaceuticals	2				2	
64	SciClone Pharmaceuticals	1			1	2	
65	Sunshine Guojian Pharma			1	1	2	
66	SHANGHAI PHARMA		1	1		2	
67	Trinomab Biotechnology				2	2	
68	IMAB Biopharma				2	2	
69	Walvax Biotechnology	1	1			2	
70	NeoCura Bio-Medical	1		1		2	
71	Xuanzhu Biopharm	2				2	
72	Ascentage Pharma			1	1	2	
73	BioNova Pharma				2	2	
74	Yipinhong Pharma	2				2	
75	ImmuneOnco			1	1	2	
76	IMPACT Therapeutics			2		2	
77	Nuance Pharma	2				2	
78	Grandpharma	2				2	
79	Maxinovel Pharmaceuticals			2		2	
80	Zelgen Biopharmaceuticals				2	2	

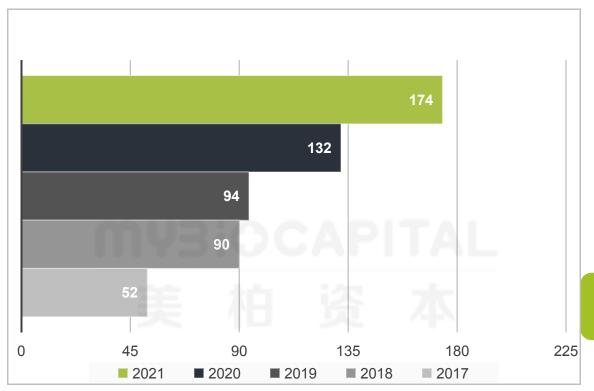
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Data source: MyBio data

Data collected till: Dec-31-2021



#### In-house Dev. "Following" Model → New Era of "License-in + In-house Dev. "



#### 2021 License-in Geographical Distribution



 Totally 542 Licensing deals occurred in recent 5 years (as per disclosed). 174 deals happened in 2021, which accounted 32.2% of the total number.

Data source: public data

Data collected till: Dec-31-2021

- North America and Europe have been the major geographies for 2021 License-in deals.
- The deals are shifting gradually from same language or nearby regions, to the cradle areas of pharmaceutical innovation.



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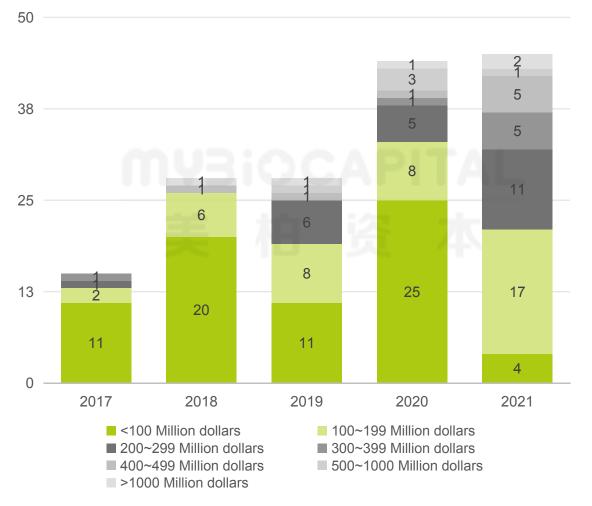
#### **Increasing Trend of Cross-boarder License-in Deals**

The total deal values have been in continuous increase in recent 5 years. In 2021, the total deal value has reached amount of 13.9 billion USD. The increase on deal numbers, and rise on deal value for a single deal, have resulted in the increase of the total deal value. There're 2 deals with deal value expanding one Billion USD. Majority of the deal values have been ranged between 100 Million USD and 300 Million USD.



<sup>\*</sup>The deal values are from public data disclosed.

Deal values not disclosed are not included.



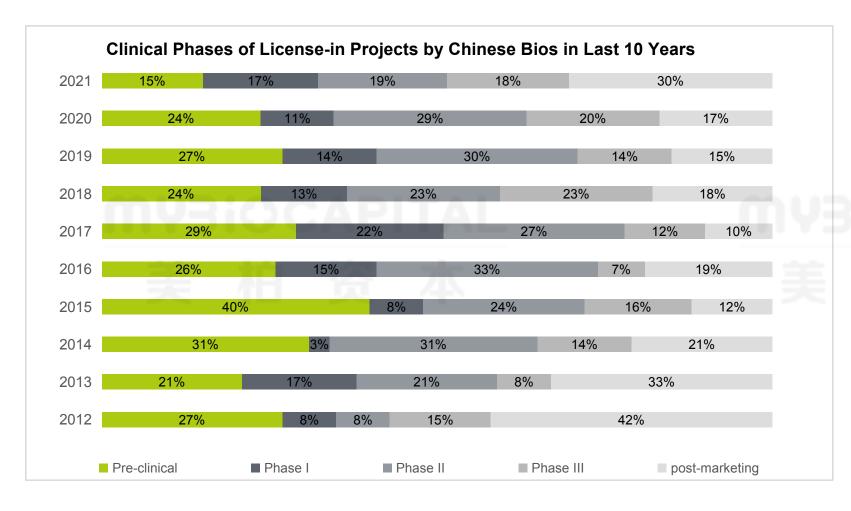


#### **Top 10 Cross-boarder License-in Deals in 2021**

No.	Time	Licenser	Licensee	Projects	Total Deal Value (Million USD)	Upfront (Million USD)	Indication
1	2021-Nov-9	Macrogenics	Zai Lab	4 bispecific antibodies (CD3, etc.)	1,400	55	Oncology
2	2021-Mar-31	Silence Therapeutics	Hansoh Pharma	3 siRNA drugs based on mRNAi GOLD™ platform	1,316	16	Liver Diseases
3	2021-Dec-27	ITM Isotope Technologies Munich SE	Grandpharma	3 RDC drugs: TOCscan, ITM-11, ITM-41	591	NA	Oncology
4	2021-Nov-9	Blue print Medicines	Zai Lab	BLU-945, BLU-701	590	25	NSCLC
5	2021-Jun-29	Vivoryon Therapeutics	Simcere	Varoglutamstat, PBD-C06	565	not disclosed	AD
6	2021-Feb-8	LogicBio Therapeutics	CANbridge	AAV sL65, LB-001	564	10	Gene editing
7	2021-Aug-17	ImmuneOncia Therapeutics	3D Medicines	IMC-002 (CD47)	462	8	Oncology
8	2021-Mar-31	OliX Pharmaceuticals	Hansoh Pharma	siRNA	456	6.5	CVD, metabolism and others
9	2021-Feb-18	TWI Biotech	Inmagene Bio	AC-1101 (JAK)	421	NA	Dermatology
10	2021-Oct-25	Providence Therapeutics	EVEREST MEDICINES	mRNA COVID vaccine candidate +mRNA technical platform	500	100	mRNA vaccine (COVID)



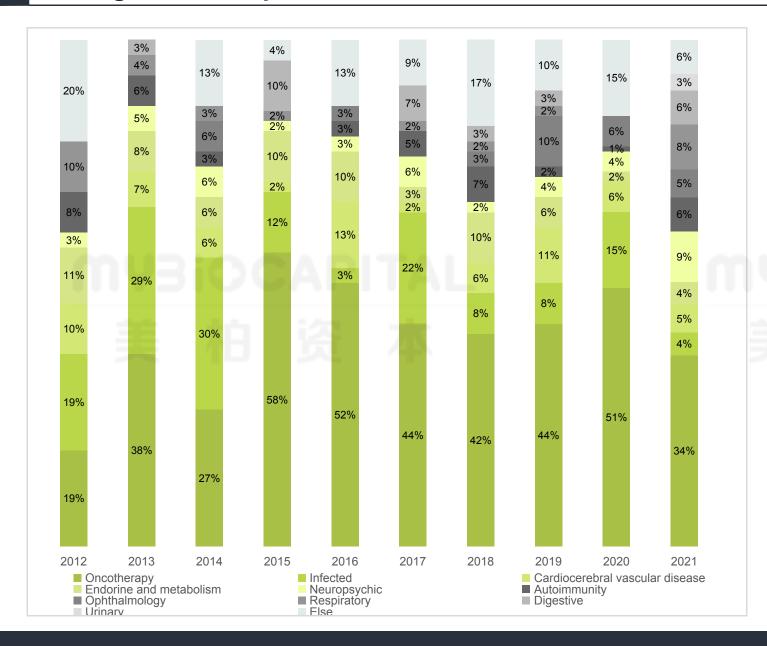
#### Change on Clinical Phases for Recent 10 Years' License-in Deals



- Compared with 2020, the number of deals on post-marketing projects has increased significantly in 2021.
- In comparison with last years, clinical phases of deals in 2021 presented balanced distribution, and deals are active in each phase from pre-clinical to phase III stage.



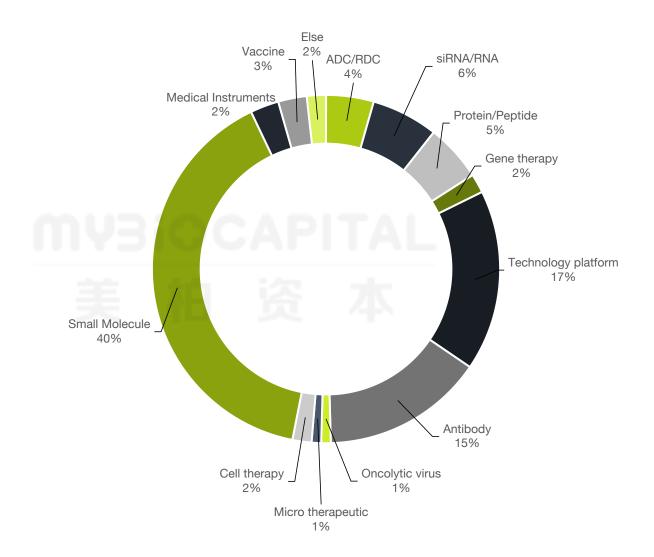
#### Change on Therapeutic Fields for Recent 10 Years' License-in Deals



- Overview with the change on therapeutic fields for recent 10 years' License-in deals, oncology has always been the most heated field for the deals.
- Besides oncology in continuous heat, deals are active in the other therapeutic fields as well in 2021, and the deal numbers are balanced in different fields. Deal number in CNS field has significantly increased. COVID related deals has been active. GI, Autoimmune, CVD, Ophthalmology all are in heat trend. Deals begin arising in Urology and Endocrinology as well.



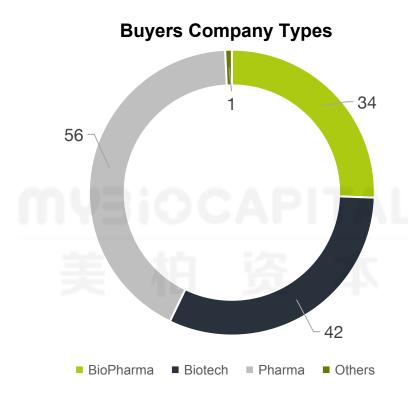
#### Therapeutic Categories Overview on 2021 Cross-boarder License-in Deals



- Small molecules, as the major deal projects, have amounted 40% among all of the deals. The deal number has maintained in 1st place.
- The deal number of antibodies has been in the 2<sup>nd</sup> just behind small molecules.
- Number of deals on technology platforms
  has been increasing. There appears a
  trend that the Chinese bios not only license
  in a single project, but also begin licensing
  in technology platforms with several
  projects for one deal.
- Deals begin arising in cell therapy, gene therapy, siRNA/RNA as well.



#### **Dealers Analysis on 2021 Cross-boarder License-in Deals**



Data source: MyBio analysis
Data collected till: Dec-31-2021

Buyers Ranking										
Company	BioPharma	Biotech	Pharma	Total						
Zai Lab	7			7						
Huadong Medicine			5	5						
LianBio	5			5						
Beigene	3			3						
CANbridge		3		3						
Nhwa Pharma			3	3						
Fosun Pharma			3	3						
Hansoh Pharma			3	3						
JI XING Pharma		3		3						
Arctic Vision		3		3						
Winhealth Pharma			3	3						
Simcere Pharma			3	3						
Innovent Bio	3			3						
Inmagene Bio		2		2						
Antengene	2			2						
Haisco Pharmaceutical			2	2						
Hengrui Pharma			2	2						
CR-DOUBLE CRANE			2	2						
JingXin Pharma			2	2						
Luoxin Pharma			2	2						
OcuMension	2			2						
Qilu Pharma			2	2						
SciNeuro Pharmaceuticals		2		2						
Xuanzhu Biopharm		2		2						
Yipinhong Pharma			2	2						
Nuance Pharma		2		2						
Grandpharma			2	2						
EVEREST MEDICINES	2			2						



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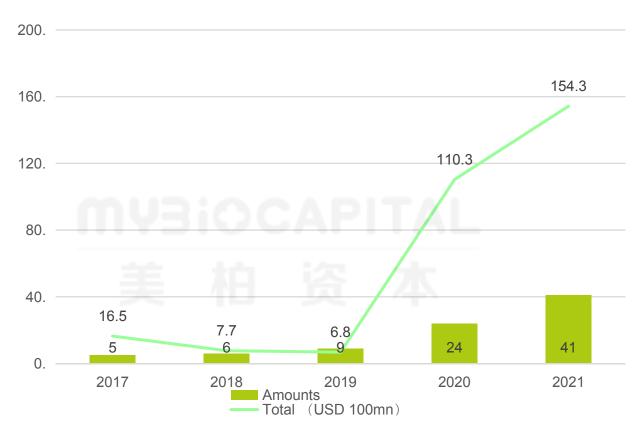
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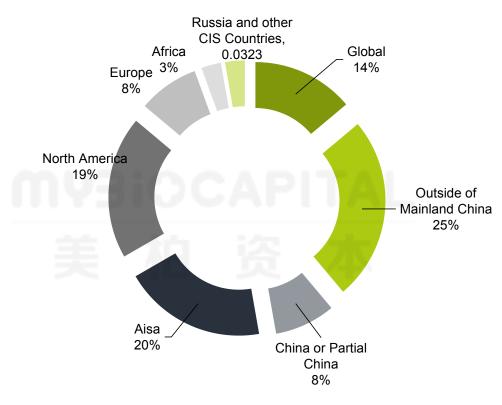
#### **Increasing Trend of Cross-boarder License-out Deals**

#### 2021 License-out Deal Numbers & Total Values



 The License-out deal numbers have been increasing in each year in recent 5 years. The total License-out deal value has reached amount of 15.4 Billion USD.

#### **2021 License-out Geographical Distribution**



- The deals License-out to regions outside Greater China have the most number for 2021. Deals in Asia Pacific region are active, and North American region is in next.
- Deals are also available in regions of Africa, Europe, Russia, etc.



#### **Top 10 Cross-boarder License-out Deals in 2021**

No.	Time	Licenser	Licensee	Projects	Indication	Phase	Total Deal Value (Million USD)	Upfront (Million USD)
1	Dec-2	Beigene	Novartis	Ociperlimab (TIGIT)	Oncology	NA	2,900	300
2	Aug-8	RemeGen	Seagen	Disitamab Vedotin	Oncology	Approved	2,600	200
3	Jan-12	Beigene	Novartis	Tislelizumab (PD1)	Oncology	Approved	2,200	650
4	Dec-10	Nuance Pharma	Eli Lilly	Research collaboration and patent licensing	Metabolic diseases	NA	1.500	50
5	Feb-1	Junshi Biosciences	Coherus BioSciences	Toripalimab(PD- 1)+JS006+JS018-1	Oncology	BLA Application	1,100	150
6	Jun-17	HiFiBiO Therapeutics	FibroGen	Galectin-9,CXCR5,CCR8	Tumor immunology	NA	1,100	25
7	Jul-13	InnoCare Pharma	Biogen	Orelabrutinib (BTKi)	Autoimmune	Approved	938	125
8	Jun-3	Allist Pharma	ArriVent	Furmonertinib	Oncology	Approved	765	40
9	Aug-17	NovaRock Biotherapeutics	Flame Biosciences	NBL-015 (Claudin 18.2)	Oncology	NA	600	7.5
10	Feb-24	Sino Biopharmaceutical	Graviton Bioscience Corporation	TDI01	Pulmonary fibrosis	Phase 1	578	NA



#### **Top 10 Cross-boarder License-out Deals in 2020 and 2019**

#### **Top 10 License-out Deals in 2020**

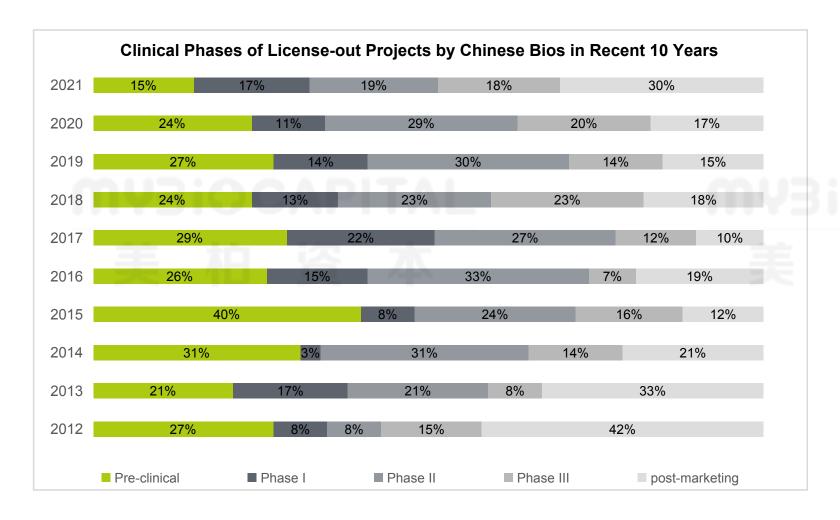
Time	Licenser	Licensee	Projects	Indication	Total Deal Value (Million USD)	Upfront (Million USD)
2020-Sep-4	I-MAB	Abbvie	Lemzoparlimab (TJC4) (CD47)	Oncology	2,900	180
2020-Jun-9	Innovent Bio	Roche	Bispecific antibodies	Oncology	2,000	NA
2020-Oct-27	Cstone Pharma	EQRx	CS1001;CS1003 PD-L1;PD-1	Oncology	1,300	150
2020-Aug-18	Innovent Bio	Lilly	Sintilimab (PD-1)	Oncology	1,000	NA
2020-Jun-1	Jacobio	Abbvie	JAB-3068/3312 SHP2;KRAS/MAPK/ SHP2	Oncology	810	45
2020-Nov-25	Henlius Pharma	Binacea	HLX35 EGRR/4- 1BB	Oncology	760	NA
2020-Apr-17	Microbio Shanghai Oneness Biotech	LEO Pharma	FB825 (first anti- CεmX antibody)	Immunology	570	40
2020-Oct-29	Fosun Pharma	Lilly (Loxo)	FCN-338 (Bcl-2)	Oncology	440	40
2020-Aug-22	TransThera	LG Chem Ltd	TT-01025 SSAO/VAP-1	NASH	350	NA
2020-Mar-30	I-MAB	Kalbe Farma(Indones ia); Genexine (South Korea)	TJD5 (CD73)	Oncology	340	NA

#### **Top 10 License-out Deals in 2019**

No.	Time	Transferor	Transferee	Projects	Indication
1	2020-Aug	GENSUN	Kintor Pharmaceutical	Bispecific antibody (PD-L1*TGF-β)	Oncology
2	2020-Jun	Alphamab	Sanofi	KN026	Oncology
3	2020-Jun	Jacobio	Abbvie	JAB-3068, JA53312	Oncology
4	2020-May	Junshi Biosciences	Lilly	COVID Neutralizing Antibody	Pneumonia caused by COVID
5	2020-Apr	Hengrui Pharma	Crystal Genomics	Camrelizumab	Oncology
6	2020-Apr	Oneness Biotech	LEO Pharrna	FB825	Atopic Dermatitis
7	2020-Mar	Henlius Pharma	Mabxience	HLX02	Oncology
8	2020-Jan	Innovent Bio	Coherus BioSciences	IBI305	Oncology
9	2019-Dec	Alphamab /3D Medicines	Tracon	KN035	Oncology
10	2019-Sep	Henlius Pharma	Kalbe Genexine	HLX10	Oncology



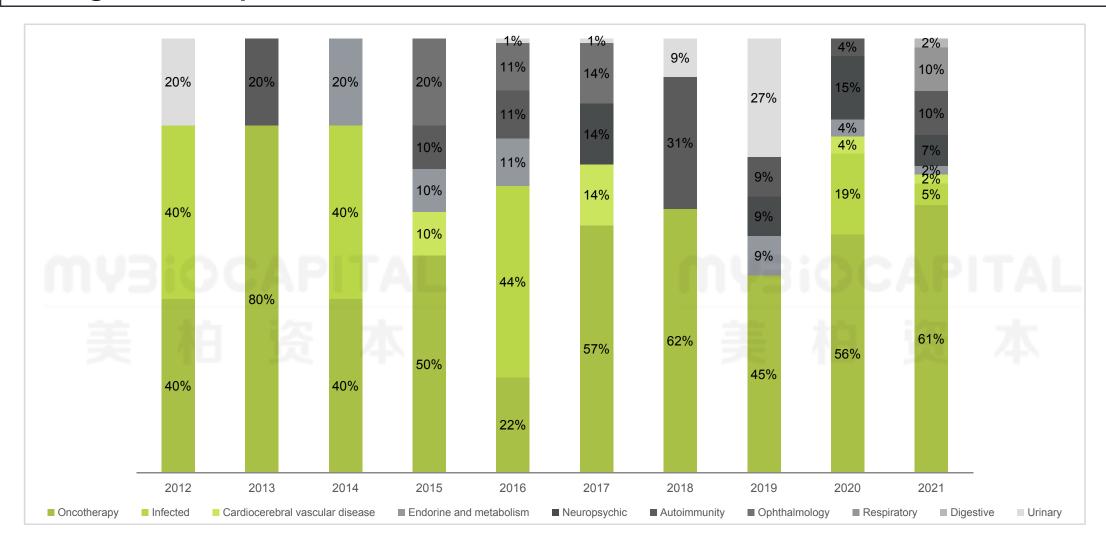
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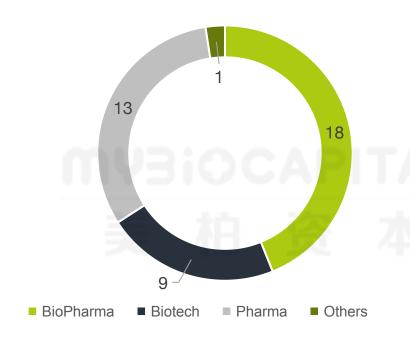
#### Change on Therapeutic Fields for Recent 10 Years' License-out Deals



The License-out deals in 2021 are centralized in Onco-therapies, then following with Respiratory and Autoimmune fields.



#### **Dealers Analysis on 2021 Cross-boarder License-out Deals**



Data source: MyBio analysis
Data collected till: Dec-31-2021

	F	Ranking of Sell	ers		
Company	BioPharma	Biotech	Pharma	Others	Total
BIO-THERA	4				4
Luye Pharma			3		3
Beigene	2				2
HiFiBiO Therapeutics		2			2
Junshi Biosciences	2				2
CARsgen Therapeutics	1				1
CSPC Pharma			1		1
Allist Pharma	1				1
Baidu				1	1
Boan Biotech			1		1
HitGen Inc.	1				1
Tennorx		1			1
Haisco Pharmaceutical			1		1
Jemincare Pharma			1		1
Jacobio Pharmaeuticals	1				1
Skyline Therapeutics		1			1
Kintor Pharmaceutical	1				1
Kelun Pharmaceutical			1		1
CureGenetics		1			1
LIVZON			1		1
InnoCare Pharma	1				1
Ranok Therapeutics		1			1
RemeGen	1				1
Ruige Pharmaceutical		1			1
Shanghai Pharmaceutical			1		1
Adagene	1				1
Walvax Biotechnology			1		1
Innovent Bio	1				1
Eucure Biopharma		1			1



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#### Deals Between Chinese Bios

Summary



#### **Deals Between Chinese Bios**

The deals between Chinese Bios have occurred frequently in 2021, with total number of 107 deals, among which 14 deals' total values and upfronts have been disclosed. Most of the deals occurred in 2<sup>nd</sup> half of 2021. The business models have been much more diversified.

No.	Time	Buyer	Seller	Projects	Business Model	Indication	Total Deal Value (Million USD)	Upfront (Million USD)
1	Jan-11	Inmagene Bio	Hutchison Pharma	NA	Co-dev.+ Commercialization collaboration	Immunology	135 / project	95 / Project
2	Feb-9	Hengrui Pharma	Yingli Pharma	YY-20394	Equity investment + Commercialization collaboration	Oncology	20	NA
3	Jun-1	Innovent Bio	AnHeart Therapeutics	Taletrectinib (ROS1/NTRK)	Licensing	Oncology	189	NA
4	Jul-14	Ascentage Pharma	Innovent Bio	HQP1351, Rituximab, IBI188, APG-2575	Equity + Co-dev.+ Commercialization collaboration	Oncology	145	30
5	Jul-15	Fosun Pharma	Kintor Pharmaceutical	Proxalutamide	Commercialization collaboration	Pneumonia caused by COVID	450 Million RMB	110 Million RMB
6	Aug-23	CSPC Pharma	Alphamab	KN026	Licensing	Oncology	1 Billion RMB	150 Million RMB
7	Aug-26	Hengrui Pharma	BeyondSpring	Plinabulin	Equity investment + Licensing	Oncology	1.3 Billion RMB	200 Million RMB
8	Sep-2	Innovent Bio	GenFleet Therapeutics	GFH925	Licensing	Oncology	262	22
9	Sep-17	Sinovent, SinoMab Bioscience	EVEREST MEDICINES	XNW1011	Licensing	Nephropathy	549	12
10	Nov-10	Jumpcan Pharmaceutical	I-MAB	TJ101	Licensing	Endocrinology	2 Billion RMB	224 Million RMB
11	Nov-11	Shanghai Ruier Bio	Kaichuan Pharma	KC1701	Equity + Co-dev.	Rare disease	60 Million RMB	NA
12	Dec-14	Beigene	Leads Biolabs	LBL-007	Licensing	Oncology	742	30
13	Dec-15	JingXin Pharma	Shaxi Pharma	Chinese Medicine	Equity investment	NA	205 Million RMB	NA
14	Dec-22	GeneScience Pharmaceuticals	Luye Pharma	Rivastigmine patch	Licensing	CNS	216 Million RMB	70 Million RMB



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#### **Summary & Prospect**



### Deal Numbers Create New High

Deals are active during the whole year. Both License-in and Licenseout deal numbers created new high. The numbers are expected to even go higher in 2022.



### The Average Deal Value Rises

The average deal value in 2021 is generally higher than previous years. The cost becomes higher and higher to obtain the high-quality deal targets. It is anticipated the cost will keep rising in 2022.



### Deals Available in All Dimensions in the Industry

Deals have been available in almost each therapeutic field, in each drug category, in each clinical phase and in each type of company. It has become a consensus in the industry that to seek development through BD deals.



### Innovation Drives Cross-regional Deals

License-in deals have been centralized in the innovation cradle regions like the US, Europe, etc. While License-out deals have been reached with different regions of the world. Chinese Bios have begun with innovation output. Brilliant future can be foreseen in the industry.



# MASIO

Linking China to Overseas Healthcare Innovation



China

Mail: BD@mybiocaptical.com

http://en.mybiogate.com/

https://mybiocapital.com/en/

Houston, San Francisco, London, Helsinki, Beijing, Shanghai, Nanjing, Shenzhen, Xi'an