

BIO ECONOMY BRIEF

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중국 제약사의 파이프라인 보유현황

(2017.06.15. 기준)

중국 제약사의 파이프라인 보유현황

이계민 선임연구원
이민주 연구원

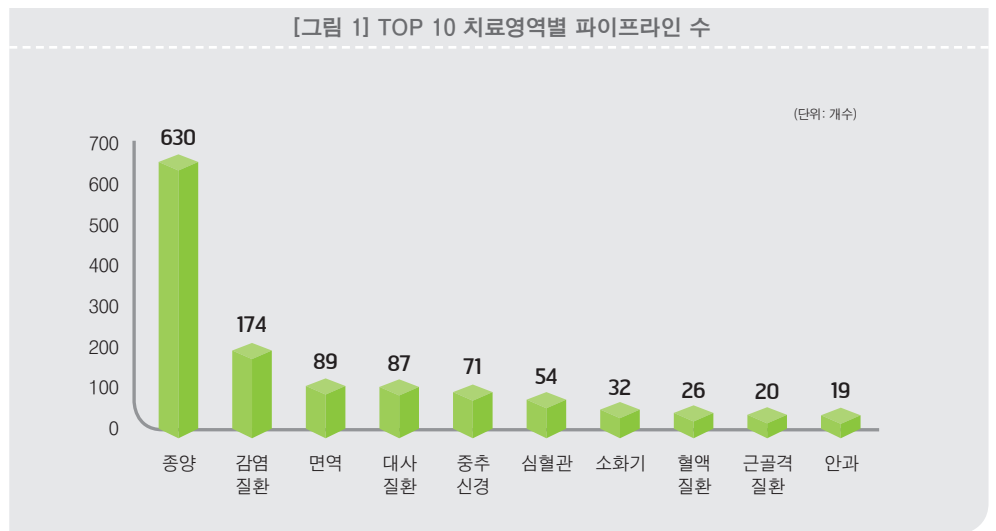


1,176 중국에 본사를 둔 제약사가 임상시험 진행 중인 파이프라인의 수



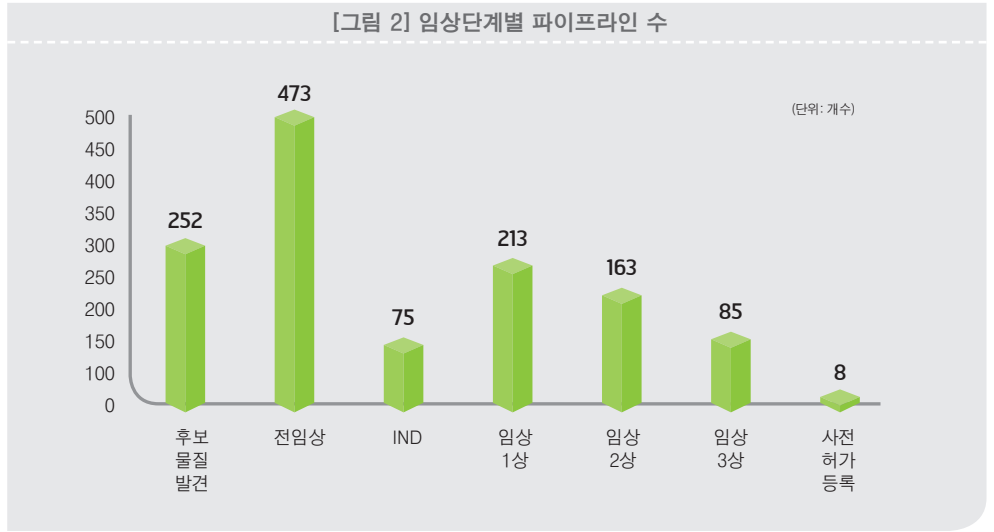
321 중국 제약기업 중 임상시험 전 과정에서 파이프라인을 하나이상 보유중인 제약기업의 수

▣ TOP 10 치료영역별 파이프라인 수

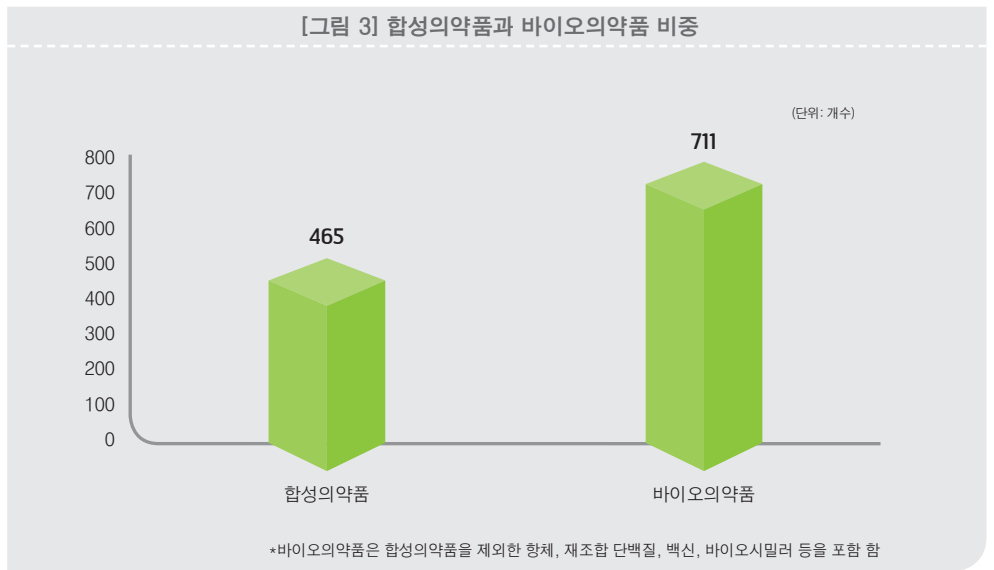


— 중국 제약기업이 보유하고 있는 파이프라인에서 상위 치료영역은 종양, 감염질환, 면역, 대사 질환, 중추신경 순으로 나타났다.

■ 임상단계별 파이프라인 수



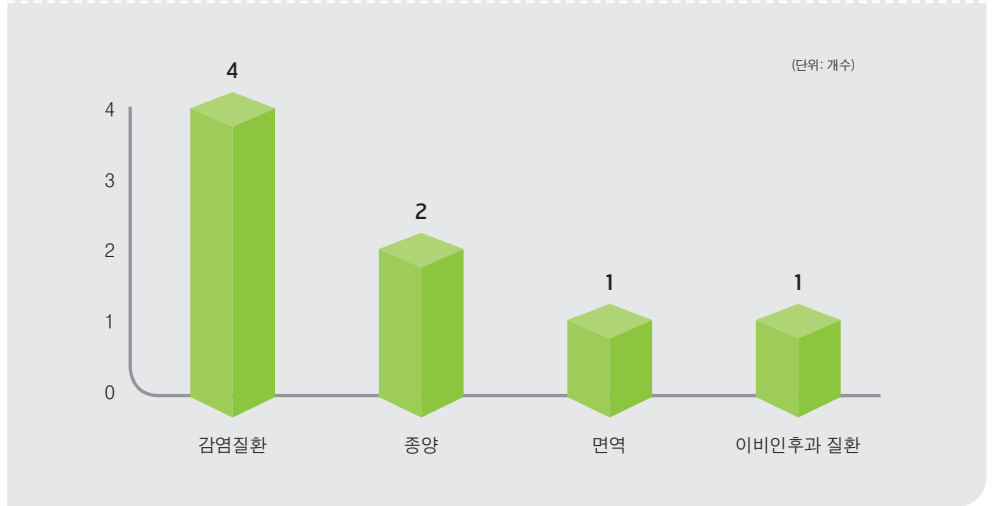
■ 합성의약품과 바이오의약품 비중



– 중국 제약사의 파이프라인의 Molecule type 별로 그 수를 살펴보면, 합성의약품(Small Molecule)은 465개, 바이오의약품(백신, 항체의약품, 합성단백질, 재조합단백질, 바이오시밀러 포함)은 711개로 집계 되었다.

■ 중국 제약기업 치료영역별 CFDA¹⁾ Pre-Registration(사전허가신청) 단계 파이프라인 수

[그림 4] 중국 제약기업 치료영역별 CFDA Pre-Registration(사전허가신청) 단계 파이프라인 수



– 중국 제약기업 CFDA Pre-Registration(사전허가등록) 단계에서 치료영역 별 파이프라인의 수는 감염질환이 가장 많았고, 종양, 면역, 이비인후과질환 순으로 나타났다.

<별첨 1>

CFDA Pre-Registration(사전허가등록) 단계에 있는 중국 제약기업 파이프라인 목록

Drug Name	회사명	치료영역	질환
abatacept biosimilar	3SBio Inc	Immunology	Rheumatoid Arthritis
ebola vaccine	Tianjin CanSino Biotechnology Inc	Infectious Disease	Ebolavirus Infections (Ebola Hemorrhagic Fever)
FB-006M	Frontier Biotechnologies Co Ltd	Infectious Disease	Human Immunodeficiency Virus (HIV) Infections (AIDS)
hemophilus influenza [serotype B] vaccine	Olymvox Biopharmaceuticals Inc	Infectious Disease	Haemophilus influenzae Type B Infections
levophencynonate hydrochloride	Sihuan Pharmaceutical Holdings Group Ltd	Ear Nose Throat Disorders	Vertigo
Monoclonal Antibody for Metastatic Breast Cancer and Stomach Cancer	3SBio Inc	Oncology	Gastric Cancer; Metastatic Breast Cancer
Monoclonal Antibody for Non-Hodgkin Lymphoma	3SBio Inc	Oncology	Non-Hodgkin Lymphoma
pneumococcal (23-valent) vaccine	Beijing Minhai Biotechnology Co Ltd	Infectious Disease	Streptococcal Pneumonia

1) 중국 국가식품의약품감독관리총국(China Food and Drug Administration)

<별첨 2>

중국 제약기업의 임상단계별 파이프라인 보유 수

번호	회사명	후보물질 탐색	전임상	IND	임상1상	임상2상	임상3상	사전허가 신청	Total
[1]	3SBio Inc		14	13	4		1	3	34
[2]	AlphaMab Co Ltd	14	8		8				30
[3]	Biosynergics Inc	29	1						30
[4]	Jiangsu Hengrui Medicine Co Ltd		5		12	8	8		24
[5]	Beijing Minhai Biotechnology Co Ltd		12	1	3		7	1	24
[6]	Shanghai Institute of Materia Medica Chinese Academy of Sciences	10	9	1	1				19
[7]	China Pharmaceutical University	7	12						19
[8]	Shenyang Pharmaceutical University	12	5						17
[9]	Sun Yat-sen University	5	5		2	2	1		15
[10]	Shanghai Henlius Biotech Co Ltd	6	4	5	2	1	2		15
[11]	HitGen LTD	14	1						15
[12]	BeiGene (Beijing) Co Ltd		12		6	2	1		14
[13]	HEC Pharm Co Ltd		7	2	4		1		13
[14]	Simcere Pharmaceutical Group	2	4	1	3	1	2		13
[15]	Guangzhou Institute of Biomedicine and Health	4	9						13
[16]	Shanghai Fudan-Zhangjiang Bio-Pharmaceutical Co Ltd		7	2	4	2			13
[17]	Luye Pharma Group Ltd		5	2	3	1	3		12
[18]	Huabo Biopharm Co Ltd	6	4	2					12
[19]	Suzhou Ribo Life Sciences Co Ltd	8	4						12
[20]	Shanghai Junshi Bioscience Co Ltd	6	4	1	1	1			12
[21]	Shanghai GeneChem Co Ltd	2	2		6	3			11
[22]	FortuneRock (China) Ltd		8		2	2			11
[23]	XuanZhu Pharma Co Ltd	2	1	2	5		1		11
[24]	Tasly Pharmaceutical Group Co Ltd	1	5	2	1	2			11
[25]	Beijing Hanmi Pharmaceutical Co Ltd	2	9						11
[26]	Tianjin CanSino Biotechnology Inc		1	5	1		2	1	10
[27]	Sichuan University	4	4		2	1			10
[28]	Third Military Medical University Hospital One				1	9			10
[29]	Techfields Pharma Co Ltd		8			1	1		10
[30]	Link Health Group	1	7	3	1	5			10
[31]	Olymvax Biopharmaceuticals Inc		7		1		1	1	10
[32]	ImmuneOnco Biopharma Shanghai Co Ltd		10						10
[33]	CARsgen Therapeutics Ltd		6		4	1			10
[34]	Chinese Academy of Medical Sciences and Peking Union Medical College	2	5		1	1			9

[35]	Jiangsu Chia-tai Tianqing Pharmaceutical Co Ltd	1	3		3	1	2		9
[36]	Genor BioPharma Co Ltd		3	2	4				9
[37]	Chinese Academy of Sciences	3	6						9
[38]	Ascentage Pharma Group Corp Ltd		5		3	1			8
[39]	FUDAN University	3	4		1				8
[40]	Shanghai De Novo Pharmatech	4	3		1				8
[41]	Shenzhen HighTide Biopharmaceutical Ltd	4	3		2				8
[42]	FUDA Cancer Hospital					8			8
[43]	Suzhou Stainwei Biotech Inc		7		1				7
[44]	Gmax Biopharm Ltd	4	1	1	1				7
[45]	Betta Pharmaceuticals Co Ltd		3		4	1			7
[46]	China PLA General Hospital				2	4	1		7
[47]	TOT Biopharm Company Ltd	2	3	3	1				7
[48]	Hebei Senlang Biotechnology Inc Ltd		6		1				7
[49]	Chipscreen Biosciences Ltd		6		2	1	2		7
[50]	Shanghai Pharmaceutical Co Ltd	1			4	2			7
[51]	Jiangsu Hansoh Pharmaceutical Group Co Ltd	1			3	2	2		7
[52]	Beijing Kawin Technology Share-Holding Co Ltd		5			1	1		7
[53]	Timmune Biotech Inc	5	2						7
[54]	Arisa Pharma Ltd		6		1				7
[55]	Hinova Pharmaceuticals Inc		5	1					6
[56]	Nanjing University	4	2						6
[57]	Allist Shanghai Pharmaceutical Technology Co Ltd	1	4		1				6
[58]	Zensun (Shanghai) Sci & Tech Co Ltd		4	1		1	1		6
[59]	Peking University	2	2			2			6
[60]	Sihuan Pharmaceutical Holdings Group Ltd		1	2		3		1	6
[61]	ZAI Lab Ltd		3		1		2		6
[62]	Sichuan Haisco Pharmaceutical Co Ltd		4	1		1			6
[63]	PersonGen Biomedicine Suzhou Co Ltd					6			6
[64]	Overseas Pharmaceuticals Ltd	2	3						5
[65]	Phagelux Inc	1	4						5
[66]	Guangzhou Magpie Pharmaceutical Co Ltd	2	4		1				5
[67]	Shenzhen Geno-Immune Medical Institute				1	4			5
[68]	Novomab Biopharmaceuticals Inc		2	1	2				5
[69]	Innovative Cellular Therapeutics Co Ltd	4	1			1			5
[70]	Jiangsu Kanion Pharmaceutical Co Ltd	2	3						5
[71]	China Biologic Products Inc			3		1	1		5
[72]	Shandong University	3	2						5
[73]	Biomics Biotechnologies Co Ltd	3	2						5
[74]	GeneScience Pharmaceuticals Co Ltd		3			2	1		5

[75]	Sinovac Biotech Ltd			3		1	1		5
[76]	Shanghai Fosun Pharmaceutical (Group) Co Ltd	2	1	1	1				5
[77]	Xiamen Amoytop Biotech Co Ltd				2	1	2		5
[78]	Jilin University	1	4						5
[79]	Shanghai H&G Biotech	1	4						5
[80]	Shenzhen Second People's Hospital				2	3			5
[81]	Innovent Biologics Inc	2	2	1	2		3		5
[82]	Asieris Pharmaceuticals Co Ltd	1	2		1		1		4
[83]	Generon (Shanghai) Corp Ltd		2	1	1	2	1		4
[84]	The Affiliated Hospital of the Chinese Academy of Military Medical Sciences		1		3	1			4
[85]	IMPACT Therapeutics Inc		3	1	1				4
[86]	Eddingpharm Inc		3		1				4
[87]	BioStar Pharmaceuticals Inc	1					3		4
[88]	Huazhong University of Science & Technology		1		1	2			4
[89]	Zhejiang University		3		1				4
[90]	Zhejiang Hisun Pharmaceutical Co Ltd	1	2		1				4
[91]	CSPC Pharmaceutical Group Limited		1		2	2			4
[92]	Livzon Pharmaceutical Group Inc		1		2		1		4
[93]	Shenogen Pharma Group Ltd	1	3		1	1			4
[94]	Yabao Pharmaceutical Group Co Ltd	1	1		2				4
[95]	Beijing Tide Pharmaceutical Co Ltd	2			1	2			4
[96]	Tsinghua Yuanxing Biopharmaceutical Co Ltd	1	3						4
[97]	Mabtech Ltd						4		4
[98]	Ark Biosciences Inc	2	1		1	1			4
[99]	Suzhou Kintor Pharmaceutical Inc		4			1			4
[100]	Birdie Biotech Inc	3	1						4
[101]	East China University Of Science And Technology	3	1						4
[102]	Chongqing Zhifei Biological Products Co Ltd			1	1		1		3
[103]	Suzhou Connect Biopharmaceuticals Ltd		2		1				3
[104]	CGeneTech (Suzhou China) Co Ltd		3						3
[105]	Sinocelltech Ltd		1		1	1			3
[106]	Anhui Provincial Hospital				1	3			3
[107]	Shenzhen Hornetcorn Bio-technology Company Ltd		1		2	1			3
[108]	Tianjin Hemay Pharmaceutical Co Ltd				3				3
[109]	Tarrex Biopharma Ltd	1	2	1					3
[110]	Henan University of Traditional Chinese Medicine				1	2			3
[111]	Jiangsu ProteLight Pharmaceutical & Biotechnology Co Ltd	2	1						3
[112]	Bio-Thera Solutions Ltd				3				3
[113]	Qilu Pharmaceutical Co Ltd		1		1		2		3

[114]	Nanjing Drum Tower Hospital the Affiliated Hospital of Nanjing University Medical School		1			2			3
[115]	Jiangsu Nhwa Pharmaceutical Corp Ltd		3						3
[116]	HUYA Bioscience International LLC		2		1	2			3
[117]	Nanjing Sanhome Pharmaceutical Co Ltd		2		1				3
[118]	Second Military Medical University	1			1	1			3
[119]	Xinqiao Hospital		1			2			3
[120]	InventisBio Inc		3						3
[121]	Abbisko Therapeutics	3							3
[122]	Hangzhou Cancer Hospital				1	1			2
[123]	Hua Medicine (Shanghai) Ltd		1			1			2
[124]	Shanghai Green Valley Pharmaceutical Co Ltd	1					1		2
[125]	Shanghai Jiao Tong University School of Medicine	1	1						2
[126]	Xiamen Innovax Biotech Co Ltd				1		1		2
[127]	Zhujiang Hospital of Southern Medical University					2			2
[128]	Tianjin Medical University Cancer Institute and Hospital		1			1			2
[129]	Wenzhou Medical College		2						2
[130]	Zhengzhou University	1	1						2
[131]	Hebei Medical University		2						2
[132]	Guangdong General Hospital		1		1				2
[133]	Wuhan University	2							2
[134]	Xuzhou Medical College		1			1			2
[135]	Xi'an Jiaotong University	2							2
[136]	Southern Medical University		2						2
[137]	Beijing Sanbo Brain Hospital					2			2
[138]	Frontier Biotechnologies Co Ltd					1		1	2
[139]	Southeast University	1	1						2
[140]	Tongji University		1			1			2
[141]	Lanzhou Institute of Biological Products Co Ltd					1	1		2
[142]	Nanjing Medical University					2			2
[143]	China Medical University	1	1						2
[144]	Hangzhou Minsheng Pharmaceutical Group Co Ltd		2						2
[145]	Harbin Medical University	1				1			2
[146]	Chinese Center for Disease Control and Prevention					1	1		2
[147]	Sinobioway Cell Therapy Co Ltd					1	1		2
[148]	Centaurus Biopharma Co Ltd		2			1			2
[149]	Qilu University of Technology	1	1						2
[150]	Chengdu Easton Biopharmaceuticals Co Ltd				1	1			2
[151]	Harbin Gloria Pharmaceuticals Co Ltd		1	1					2
[152]	TenNor Therapeutics Ltd	2							2
[153]	Hebei Yanda Hospital						2		2

[154]	AnewPharma			1	1				2
[155]	ImmunoVentis Inc		2						2
[156]	Yisheng Biopharma Co Ltd		1		2	1			2
[157]	The First Affiliated Hospital of Guangzhou Medical University				1	1			2
[158]	Beijing Pearl Biotechnology LLC				2				2
[159]	Beijing Doing Biomedical Co Ltd		2						2
[160]	Chia Tai Tianqing Pharmaceutical Group Co Ltd		1				1		2
[161]	Jiangsu T-mab BioPharma Co Ltd		1		1				2
[162]	East China Normal University	2							2
[163]	Henan Cancer Hospital				1	1			2
[164]	Genova Biotech Company Ltd		1			1			2
[165]	Beijing Mabworks Biotech Co Ltd		1		1				2
[166]	Nankai University		2						2
[167]	Yantai RC-Pharmaceutical Co Ltd				1	1	1		2
[168]	ShangHai HaiHe Pharmaceutical Co Ltd		1		1				2
[169]	Changchun ProteLight Pharmaceutical & Biotechnology Co Ltd				1				1
[170]	Fujian Normal University		1						1
[171]	Beijing Institute of Pharmacology and Toxicology		1						1
[172]	Nanjing Children's Hospital					1			1
[173]	MicroConstants China Inc		1						1
[174]	Dalian Municipal Central Hospital				1				1
[175]	Xiangya Hospital of Central South University				1				1
[176]	Haikou VTI Biological Institute				1				1
[177]	The Second Xiangya Hospital of Central South University					1			1
[178]	Hubei University		1						1
[179]	Liaoning Cheng Da Biotechnology Co Ltd						1		1
[180]	CANbridge Life Sciences Ltd					1			1
[181]	Zhejiang I-Biological Technology Co Ltd					1			1
[182]	Beijing Mediking Biopharm Co Ltd	1							1
[183]	Zhejiang Academy of Medical Sciences		1						1
[184]	Rugen Therapeutics R&D (Shanghai) Co Ltd		1						1
[185]	Sinopharm Holding A-Think Pharmaceutical Co Ltd		1						1
[186]	Shaanxi Normal University		1						1
[187]	Wuhan YZY Biopharma Co Ltd		1						1
[188]	Henan University		1						1
[189]	OrienGene Biotechnology Ltd				1				1
[190]	Beijing Fogangren Bio-Pharm Tech Co Ltd					1			1
[191]	The Third Xiangya Hospital of Central South University				1				1
[192]	NhwaThad Pharmaceutical Co Ltd		1						1
[193]	Jinan Saiwen Pharmaceuticals Inc		1						1

[194]	Hubei Soundny Bio–Tech Co Ltd				1			1
[195]	Peking Union Medical College				1			1
[196]	ShanXi DaTong University		1					1
[197]	America Yuva Biomed Inc				1			1
[198]	Northeast Agricultural University		1					1
[199]	Tianjin Shengfa NabioTech Co Ltd	1						1
[200]	Southwest University	1						1
[201]	Suzhou Zelgen Biopharmaceutical Co Ltd		1		1	1		1
[202]	Jiangsu Zeukov Pharmaceutical S&T Inc	1						1
[203]	Liaoning Normal University	1						1
[204]	MabSpace Biosciences (Suzhou) Co Ltd		1					1
[205]	Wuhan Docan Pharmaceutical Co Ltd	1						1
[206]	Shanghai HEP Pharmaceutical Co Ltd				1			1
[207]	iCELL Biotechnology Co Ltd							1
[208]	Guangzhou Yipinhong Pharmaceutical Co Ltd				1	1		1
[209]	Gudui BioPharma Technology Inc		1					1
[210]	Beijing Advaccine Biotechnology Company Ltd		1					1
[211]	First Affiliated Hospital of Chengdu Medical College Hospital				1			1
[212]	Nanjing Zhongrui Pharmaceutical Co Ltd		1					1
[213]	Jiangsu Provincial People's Hospital		1					1
[214]	Shanghai HaiXin BiotechnologyCo Ltd				1			1
[215]	Beijing Biohealthcare Biotechnology Co Ltd				1			1
[216]	The Second Hospital of Nanjing Medical University				1			1
[217]	Institute of Chinese Materia Medica		1					1
[218]	Guangzhou No.8 People's Hospital				1			1
[219]	Sichuan Huiyang Life Science and Technology Corp				1			1
[220]	Epigen Biotec Ltd		1					1
[221]	Shanghai Xinyi Pharmaceutical Co Ltd		1					1
[222]	Shandong Hengye Biotech Co Ltd					1		1
[223]	Suzhou RxD Biopharmaceutical Co Ltd					1		1
[224]	Nanjing University of Science and Technology		1					1
[225]	Jiangsu Jindike Biotechnology Co Ltd					1		1
[226]	China Meitan General Hospital				1			1
[227]	Sian Wuhan Medical Technology Co Ltd				1			1
[228]	Beijing Eastern Biotech Co Ltd			1				1
[229]	Nanjing Tianyi Bioscience Co Ltd		1					1
[230]	Keypharma Biomedical Inc	1						1
[231]	Tianjin Hemay Bio–Tech Co Ltd				1			1
[232]	Tianjin Hengjia Biotechnology Development Co Ltd		1					1
[233]	Shanghai Bovax Biotechnology Co Ltd				1			1

[234]	Shanghai Gebaide Biotechnology Co Ltd					1		1
[235]	GeneQuantum Healthcare (Suzhou) Co Ltd		1					1
[236]	Nanjing Legend Biotech Co Ltd					1		1
[237]	Haile PharmaTech Ltd	1						1
[238]	CStone Pharmaceuticals Co Ltd			1				1
[239]	Kunming Yinnuo Medical Technology Co Ltd		1					1
[240]	XW Laboratories Inc		1					1
[241]	RMX Pharmaceutical Technology Co Ltd		1					1
[242]	EpimAb Biotherapeutics Inc		1					1
[243]	Kai Nuo Bio Sci Co Ltd		1					1
[244]	OncoVent Co Ltd					1		1
[245]	Wenzhou Medical University		1					1
[246]	Guangdong 999 Brain Hospital					1		1
[247]	Jiangsu Aosaikang Pharmaceutical Co Ltd		1					1
[248]	S-Evans Biosciences Inc		1					1
[249]	Shanghai Celgen Bio-Pharmaceutical Co Ltd						1	1
[250]	Yangtze River Pharmaceutical Group	1						1
[251]	YiChang Humanwell Pharmaceutical Co Ltd					1		1
[252]	China National Pharmaceutical Group Corp						1	1
[253]	Jiangsu Wanbang Biochemical Pharmaceuticals Co Ltd		1					1
[254]	Shanghai Acebright Pharmaceuticals Group Co Ltd					1		1
[255]	Sichuan Kelun Pharmaceutical Co Ltd					1		1
[256]	Wuhan Institute of Biological Products Co Ltd					1		1
[257]	Changchun Huapu Biotechnology Co Ltd					1		1
[258]	Anhui Medical University						1	1
[259]	Nanchang University	1						1
[260]	Shenzen SiBiono GeneTech Co Ltd					1	1	1
[261]	WuXi AppTec Co Ltd			1				1
[262]	China Pharma Holdings Inc						1	1
[263]	Shanghai Jiao Tong University		1					1
[264]	Anhui Anke Biotechnology (Group) Co Ltd					1		1
[265]	China Medical System Holdings Ltd						1	1
[266]	Zhejiang Conba Pharmaceutical Co Ltd						1	1
[267]	Shandong Elohim Pharmaceutical Group Co Ltd			1				1
[268]	Zhejiang Jingxin Pharmaceutical Co Ltd						1	1
[269]	Capital Medical University						1	1
[270]	Tsinghua University	1						1
[271]	Cellonis Biotechnologies Co Ltd	1						1
[272]	Tianjin Medical University General Hospital		1					1
[273]	Liaoning University of Traditional Chinese Medicine	1	1					1

[274]	Guangdong Pharmaceutical University	1						1
[275]	Xiangxue Pharmaceutical Co Ltd			1				1
[276]	Chengdu Kanghong Pharmaceuticals Group Co Ltd						1	1
[277]	Institut Pasteur of Shanghai Chinese Academy of Sciences		1					1
[278]	Xiamen University		1					1
[279]	Beijing Biostar Technologies Ltd						1	1
[280]	The First Affiliated Hospital of Guangxi Medical University					1		1
[281]	National Vaccine & Serum Institute		1					1
[282]	Fuzhou University	1						1
[283]	Academy of Military Medical Sciences		1					1
[284]	Beijing Cancer Hospital		1					1
[285]	Guangxi Medical University				1	1		1
[286]	Biotech Pharmaceutical Co Ltd					1	1	1
[287]	Shanghai Zerun Biotechnology Co Ltd						1	1
[288]	Shanghai Public Health Clinical Center					1		1
[289]	GinkgoPharma Co Ltd				1			1
[290]	Fujian Medical University						1	1
[291]	Henan University of Science and Technology	1						1
[292]	Peking Union Medical College Hospital		1					1
[293]	Qingdao University				1			1
[294]	Beijing Genomics Institute		1					1
[295]	Walvax Biotechnology Co Ltd					1		1
[296]	Changchun Institute of Biological Products Co Ltd				1			1
[297]	Daping Hospital & Research Institute of Surgery		1					1
[298]	Shandong Qidu Pharmaceutical Co Ltd	1						1
[299]	Fudan University Shanghai Cancer Center		1					1
[300]	Tianjin Institute of Pharmaceutical Research		1					1
[301]	Changchun Bcht Biotechnology Co Ltd						1	1
[302]	Beijing Northland Biotech Co Ltd						1	1
[303]	Beijing Sunbio Biotech Co Ltd						1	1
[304]	Alliancells Bioscience Corporation Ltd					1		1
[305]	Suzhou Neupharma Co Ltd				1			1
[306]	Institute of Hematology & Blood Diseases Hospital				1			1
[307]	PegBio Co Ltd				1			1
[308]	BrightGene Bio-Medical Technology Co Ltd					1		1
[309]	Lyvgen Biopharma Ltd	1						1
[310]	OnkologixRx Inc		1					1
[311]	Jiangsu Aidea Pharmaceutical Co Ltd				1			1
[312]	Hepo Biomedical-Tech Co		1					1
[313]	Hangzhou Adamerck Pharmedics Inc		1					1

[314]	Beijing Immunochina Medical Science & Technology Co Ltd					1			1
[315]	Benhealth Biopharmaceutical (Shenzhen) Co Ltd					1			1
[316]	Obio Technology (Shanghai) Corp Ltd		1						1
[317]	Jiangsu Wuzhong Pharmaceutical Group Co Ltd						1		1
[318]	Jiangxi Science and Technology Normal University	1							1
[319]	Shanghai Haikang Pharmaceutical Co Ltd			1					1
[320]	Virogin Biotech Ltd		1						1
[321]	Shenzhen BinDeBio Ltd					1			1

※ 본 브리프에 사용된 수치는 글로벌데이터의 자료를 가공한 것임.

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