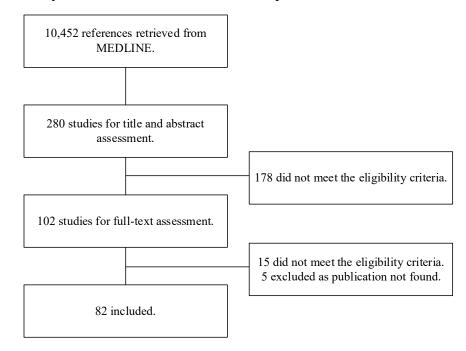
1	Conclusions of clinical trials assessing monoclonal antibodies and sponsored by
2	pharmaceutical industry: a meta-research study
3	
4	Rachel Campos Ornelas
5 6 7 8	Medical doctor, Universidade Federal de Juiz de Fora (UFJF), Governador Valadares—MG, Brazil. <u>rcamposornelas@gmail.com</u> <u>https://orcid.org/0000-0003-3878-4720</u>
9 10 11 12	Débora de Souza Pazini Medical doctor, Universidade Federal de Juiz de Fora (UFJF), Governador Valadares – MG, Brazil. <u>deboraspazini@gmail.com</u> <u>https://orcid.org/0000-0003-0595-4420 /</u>
13	
14 15 16 17 18 19	Rafael Leite Pacheco. MD, MSc, PhD. Researcher at Hospital Sírio-Libanês (HSL), São Paulo - SP, Brazil. Professor, Centro Universitário São Camilo (CUSC), São Paulo - SP, Brazil. Researcher, Oxford-Brazil EBM Alliance. rleitepacheco@hotmail.com https://orcid.org/0000-0002-1676-6428 .
20	Ana Luiza Cabrera Martimbianco, MSc, PhD.
21 22 23 24 25	Researcher at Hospital Sírio-Libanês (HSL), São Paulo - SP, Brazil. Professor, Universidade Metropolitana de Santos (Unimes), Santos - SP, Brazil. Researcher, Oxford-Brazil EBM Alliance. analuizacabrera@hotmail.com https://orcid.org/0000-0002-4361-4526
26 27 28 29 30 31 32 33	Rachel Riera. MD, MSc, PhD. Research coordinator, Hospital Sírio-Libanês (HSL), São Paulo - SP, Brazil. Professor, Escola Paulista de Medicina, Universidade Federal de São Paulo (Unifesp), São Paulo - SP, Brazil. Researcher, Oxford-Brazil EBM Alliance. rachelriera@hotmail.com https://orcid.org/0000-0002-9522-1871
34 35	Corresponding author: Rafael Leite Pacheco. Hospital Sírio-Libanês. R. Prof. Daher Cutait, 69, Bela Vista — São Paulo (SP) — Zip Code 01308-060. E-mail: <u>rleitepacheco@hotmail.com</u>
36	
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39	Supplementary material
40	Supplementary file 1. Search strategy for MEDLINE (via PubMed)
.0	#1 "Antibodies, Monoclonal" [Mesh] OR (Antibodies Monoclonal) OR (Monoclonal Antibodies)
	OR (Monoclonal Antibody) OR (Antibody, Monoclonal) OR (mAB)
	#2 (randomized controlled trial[Publication Type] OR (randomized[Title/Abstract] AND
	controlled[Title/Abstract] AND trial[Title/Abstract])) #3 1 AND #2

Supplementary file 2. Reasons for exclusions in the second phase of the selection process

	DOI	PMID	Reason for exclusion					
1	10.1016/S2352-3026(22)00034-5	35240075	Intervention is not mab					
2	10.1186/s10194-022-01387-y	35189811	Post hoc analysis					
3	10.36849/jdd.6274	35133113	Not the main analysis – it is the extended phase analysis					
4	10.1002/cpt.2539	35092305	Considered healthy participants					
5	10.1007/s10147-021-02067-8	34973108	Post hoc analysis					
6	10.1016/j.annonc.2021.12.002	34921960	Not the main analysis – it is the extended phase analysis					
7	10.1172/JCI152670	34907910	Intervention is not mab					
8	10.1007/s40121-021-00572-x	34878625	Considered healthy participants					
9	10.3389/fimmu.2021.794638	34868084	Not funded by industry					
10	10.1016/j.annonc.2021.11.009	34843940	Not randomized					
11	10.1136/jitc-2021-002996	34815354	Not randomized					
12	10.1016/S2468-1253(21)00298-3	34798039	No access to full text					
13	10.1016/S2468-1253(21)00294-6	34798038	No access to full text					
14	10.1016/S2468-1253(21)00295-8	34798037	No access to full text					
15	10.1016/S2468-1253(21)00338-1	34798036	No access to full text					
16	10.1038/s41392-021-00751-9	34650034	without comparison					
17	10.1210/clinem/dgab729	34636899	Not the main analysis – it is the extended phase analysis					
18	10.1016/S2468-1253(21)00313-7	34626550	No access to full text					
19	10.1016/j.vaccine.2021.08.066	34483020	Considered healthy participants					
20	10.1007/s00417-021-05281-2	34463842	Analysis isn't a RCT					

Supplementary file 3. Flowchart of the selection process



Supplementary file 4. References included.

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Supplementary file 5. Characteristics of the publications that reported the controlled trials considered in this study.

	PMID	Publication (Author, year)	Clinical condition	Pharma Sponsor	Extent of funding (full/partial/u nclear)	Pharma sponsor had data and publishing rights (y/n/nr)	Hypothesis (superiority,n on-inferiority, equivalence, unclear)		Direction of treatment effect to effectiveness (favorable, contrary, neutral)	Recommenda tion for clinical practice (y/n)	Recommenda tion direction for clinical practice (Totally favorable/Tot ally unfavorable /neutral)	Recognition of uncertainty (y/n)	Recognition of necessity or not of future studies (y/n)
1	35219277	Sivapalasinga m 2022	COVID-19	regeneron pharmaceutic als, sanofi	partial	y	superiority	drug vs placebo	Totally favorable	n	na	n	n
2	35218370	Lefferdink 2022	ichthyosis	Novartis	partial	у	superiority	drug vs placebo	Totally unfavorable	n	na	у	n
3	35194005	Hong 2021	lymphoma	Roche	full	у	superiority	drug x vs drug y	Totally favorable	у	Totally favorable	n	n
4	35179586	Mettu 2022	colorectal cancer	Roche	full	n	superiority	drug vs placebo	Totally favorable	n	na	n	n
5	35165274	Xu 2022	gastroesopha geal cancer	innovent biologics, Eli Lilly	partial	у	superiority	drug x vs drug y	Totally favorable	у	Totally favorable	n	n
6	35139274	Schmid 2022	breast cancer	Merck	full	у	superiority	drug vs placebo	Totally favorable	у	Totally favorable	n	n
7	35139273	Tewari 2022	cervical cancer	regeneron pharmaceutic als, sanofi	full	у	superiority	drug x vs drug y	Totally favorable	у	Totally favorable	n	n
8	35133617	Li 2022	breast cancer	Pfizer	full	у	equivalence	drug vs similar	Totally favorable	у	Totally favorable	n	n
9	35130291	Samtsov 2022	psoriasis	JSC BIOCAD	full	у	equivalence	drug vs similar	Totally favorable	n	na	n	n
10	35108470	Doki 2022	gastroesopha	Bristol Myers Squibb, Ono Pharmaceutic al	full	у	superiority	drug x vs drug y	Totally favorable	n	na	n	n

	I							I			I		
11	35106315	Lim 2021	influenza	Roche	full	У	superiority	drug vs placebo	Totally unfavorable	n	na	n	n
12	35105329	Stroyakovski y 2022	lung cancer	JSC BIOCAD	full	у	equivalence	drug vs similar	Totally favorable	n	na	n	у
13	35104665	Chapurlat 2022	fibrous dysplasia of bone	Chugai Pharma	partial	n	superiority	drug vs placebo	Totally unfavorable	у	Totally unfavorable	у	у
14	35065057	Kaseb 2022	hepatocellula r carcinoma	Bristol Myers Squibb	partial	n	superiority	drug x vs drug y	Totally favorable	n	na	n	у
15	35045221	Makker 2022	endometrial cancer	Eisai, Merck	full	у	superiority	drug x vs drug y	Totally favorable	n	na	n	n
16	35039035	Xu 2022	hypercholeste rolemia	Jiangsu Hengrui Medicine Co.	full	у	superiority	drug vs placebo	Totally favorable	у	Totally favorable	n	y
17	35038433	Safran 2022	gastroesopha geal cancer	roche	partial	n	superiority	drug + treatment x vs treatment x	Totally unfavorable	n	na	n	у
18	35032437	Cella 2022	renal cancer	Bristol Myers Squibb, Ono Pharmaceutic al, Exelixis, Ipsen Pharma, Takeda Pharmaceutic al	full	у	superiority	drug x vs drug y	Totally favorable	n	na	n	n
19	35030335	Kang 2022	gastroesopha geal cancer	Ono Pharmaceutic al, Bristol- Myers Squibb	full	у	superiority	drug vs placebo	Totally favorable	n	na	n	n
20	35029629	O'Brien 2022	COVID-19	regeneron pharmaceutic als, roche	partial	у	superiority	drug vs placebo	Totally favorable	n	na	n	n
21	35026342	Zhang 2022	psoriasis	Jiangsu Hengrui Medicine Co.	full	у	superiority	drug vs placebo	Totally favorable	n	na	у	у
22	35013615	Powles 2022	prostate cancer	roche	full	у	superiority	drug + treatment x vs treatment x	Totally unfavorable	n	na	n	у
23	34986285	Tawbi 2022	melanoma	Bristol Myers Squibb	full	у	superiority	drug + treatment x	Totally favorable	n	na	n	n

								vs treatment					
24	34981077	Chew 2021	COVID-19	Eli Lilly	partial	n	superiority	drug vs placebo	Totally favorable	n	na	у	у
25	34936739	Bachelez 2021	psoriasis	Boehringer Ingelheim	full	У	superiority	drug vs placebo	Totally favorable	n	na	у	у
26	34920291	Ledermann 2022	ovarian cancer	Glycotope GmBH	full	n	superiority	drug vs placebo	Totally unfavorable	n	na	n	у
27	34914889	Yau 2022	hepatocellula r carcinoma	Bristol Myers Squibb, Ono Pharmaceutic al	full	у	superiority	drug x vs drug y	Totally favorable	у	Totally favorable	n	n
28	34911706	Kristensen 2021	psoriatic arthritis	AbbVie	full	у	superiority	drug vs placebo	Totally favorable	у	Totally favorable	n	n
29	34904799	Tilly 2021	lymphoma	roche	full	у	superiority	drug x vs drug y	Totally favorable	n	na	n	n
30	34893523	Shah 2021	gastroesopha geal cancer	Gilead Sciences	full	n	superiority	drug + treatment x vs treatment x	Totally unfavorable	n	na	n	n
31	34890214	Krop 2021	breast cancer	Roche	full	У	superiority	drug x vs drug y	Totally unfavorable	n	na	n	n
32	34879449	Bacharier 2021	asthma	sanofi, regeneron pharmaceutic als	full	у	superiority	drug vs placebo	Totally favorable	n	na	n	n
33	34878659	Chung 2021	gastroesopha geal cancer	Merck	full	у	superiority	drug x vs drug y	neutral	n	na	у	у
34	34871550	Usmani 2021	multiple myeloma	Amgen, Janssen	full	у	superiority	drug + treatment x vs treatment x	Totally favorable	y	Totally favorable	n	n
35	34871182	Perlin 2022	COVID-19	Avalo Therapeutics	full	n	superiority	drug vs placebo	Totally favorable	n	na	у	у
36	34863332	Temesgen 2021	COVID-19	humanigen	full	у	superiority	drug vs placebo	Totally favorable	n	na	n	n
37	34861168	Bowman 2022	Sjögren's syndrome	Novartis	full	у	superiority	drug vs placebo	Totally favorable	n	na	n	у
38	34839016	Soo 2022	lung cancer	AstraZeneca, Roche	partial	n	superiority	drug + treatment x vs treatment x	Totally unfavorable	n	na	n	n

39	34818112	Wolchok 2022	melanoma	Bristol Myers Squibb	full	у	superiority	drug x vs drug y	Totally favorable	n	na	n	n
40	34816373	Cai 2021	psoriasis	Shanghai Henlius Biotech	full	у	equivalence	drug vs similar	Totally favorable	у	Totally favorable	n	n
41	34806021	Bauer 2021	septic shock	InflaRx GmbH	full	n	superiority	drug vs placebo	Totally favorable	n	na	n	у
42	34786956	Konno 2021	chronic low back pain	Pfizer, Eli Lilly	full	у	not reported	drug x vs drug y	Totally favorable	n	na	у	у
43	34748774	Sands 2021	Crohn's Disease	Eli Lilly	full	у	superiority	drug vs placebo	Totally favorable	n	na	n	n
44	34744750	Dai 2021	low bone mass	Jiangsu Hengrui Pharmaceutic als	full	у	superiority	drug vs placebo	Totally favorable	n	na	n	у
45	34719872	McInnes 2022	psoriatic arthritis	Janssen	full	у	superiority	drug vs placebo	Totally favorable	n	na	n	n
46	34716979	Shoji 2021	ovarian cancer	Chugai Pharmaceutic al	full	у	superiority	drug + treatment x vs treatment x	Totally favorable	n	na	n	у
47	34706556	Ruff 2021	Coronary Artery Disease	AstraZeneca	full	n	superiority	drug vs placebo	Totally favorable	n	na	n	у
48	34706311	Gaffo 2021	gout	Amgen	full	n	superiority	drug + treatment x vs treatment x	Totally unfavorable	у	Totally unfavorable	n	n
49	34706189	Gupta 2021	COVID-19	Vir Biotechnolog y, GlaxoSmithK line	full	n	superiority	drug vs placebo	Totally favorable	у	Totally favorable	n	у
50	34706172	Brightling 2021	asthma	AbbVie, Boehringer Ingelheim	full	n	superiority	drug vs placebo	Totally unfavorable	n	na	n	n
51	34706171	Wechsler 2021	asthma	Sanofi, Regeneron Pharmaceutic als	full	n	superiority	drug vs placebo	Totally favorable	n	na	n	n
52	34657274	Feldman 2021	psoriasis	Alvotech Swiss AG	full	у	equivalence	drug vs similar	Totally favorable	у	Totally favorable	n	n
53	34656227	Fennell 2021	mesothelioma	Bristol Myers Squibb	partial	n	superiority	drug vs placebo	Totally favorable	n	na	n	n

54	34655533	Facon 2021	multiple myeloma	Janssen	full	у	superiority	drug + treatment x vs treatment x	Totally favorable	у	Totally favorable	n	n
55	34650833	Hasanov 2021	melanoma	Prometheus Laboratories, Clinigen	full	у	superiority	schedule a vs schedule b	Totally favorable	n	na	n	n
56	34642026	Konecny 2021	ovarian cancer	amgen	partial	n	superiority	drug vs placebo	Totally unfavorable	n	na	n	у
57	34615636	Furie 2021	lupus nephritis	Roche	full	у	superiority	drug vs placebo	Totally favorable	n	na	n	у
58	34609549	Rosas 2021	COVID-19	Roche	full	у	superiority	drug vs placebo	Totally unfavorable	n	na	n	n
59	34607285	Reck 2021	lung cancer	Bristol Myers Squibb	full	У	superiority	schedule a vs schedule b	Totally favorable	y	Totally favorable	n	n
60	34605947	Laterre 2021	septic shock	Adrenomed AG	full	not reported	superiority	drug vs placebo	Totally favorable	n	na	n	у
61	34599540	Sweet 2021	lung transplant recipient	Roche	partial	n	superiority	drug vs placebo	Totally favorable	n	na	n	у
62	34592180	Valle 2021	biliary tract cancer	Eli Lilly	full	у	superiority	drug vs placebo	Totally unfavorable	n	na	n	n
63	34587383	Weinreich 2021	COVID-19	Regeneron Pharmaceutic als, Roche	partial	у	superiority	drug vs placebo	Totally favorable	n	na	n	n
64	34586459	Lomakin 2021	COVID-19	JSC BIOCAD	full	у	superiority	drug vs placebo	Totally favorable	у	Totally favorable	n	n
65	34563243	Fleischmann 2021	rheumatoid arthritis	pfizer	full	у	equivalence	drug vs similar	Totally favorable	n	na	n	n
66	34548479	Keenan 2021	breast cancer	Merck, Eisai	partial	n	superiority	drug + treatment x vs treatment x	Totally favorable	n	na	у	у
67	34548383	Briot 2021	X-linked hypophosphat aemia	Kyowa Kirin International	full	y	superiority	drug vs placebo	Totally favorable	у	Totally favorable	n	n
68	34543477	Satouchi 2021	lung cancer	Merck	full	у	superiority	drug x vs drug y	Totally favorable	у	Totally favorable	n	n
69	34537057	Rigby 2021	rheumatoid arthritis	Bristol Myers Squibb	full	у	superiority	drug x vs drug y	Totally unfavorable	n	na	у	у
70	34534429	Colombo 2021	cervical cancer	Merck	full	у	superiority	drug vs placebo	Totally favorable	n	na	n	n

71	34533973	Modest 2022	colorectal cancer	Amgen	partial	n	superiority	drug + treatment x vs treatment	Totally favorable	у	Totally favorable	n	у
72	34529931	Moreau 2021	multiple myeloma	Janssen	partial	n	superiority	drug + treatment x vs treatment x	Totally favorable	n	na	n	у
73	34521687	French 2021	Epilepsy	biogen	full	у	superiority	drug vs placebo	Totally unfavorable	n	na	у	у
74	34519801	Luo 2021	gastroesopha geal cancer	Jiangsu Hengrui Pharmaceutic als	full	у	superiority	drug vs placebo	Totally favorable	n	na	n	n
75	34507350	Horwitz 2021	lymphoma	Takeda Development Center Americas	unclear	nr	superiority	drug x vs drug y	Totally favorable	n	na	n	n
76	34499874	Pinto 2021	mesothelioma	Eli Lilly	full	n	superiority	drug vs placebo	Totally favorable	у	Totally favorable	n	у
77	34482179	Klinghammer 2021	cancer of the head and neck	Glycotope	full	у	superiority	drug x vs drug y	Totally unfavorable	n	na	n	у
78	34477816	Buske 2021	lymphoma	Celltrion	full	у	equivalence	drug vs similar	Totally favorable	n	na	n	n
79	34473544	Hamanishi 2021	cancer	Ono Pharmaceutic al, Bristol- Myers Squibb	full	у	superiority	drug x vs drug y	Totally unfavorable	n	na	n	n
80	34462864	Paller 2021	Atopic Dermatitis	Sanofi, Regeneron Pharmaceutic als	full	у	superiority	drug vs placebo	Totally favorable	у	Totally favorable	n	n
81	34455583	Chen 2021	COVID-19	Eli Lilly	full	у	superiority	drug vs placebo	Totally favorable	n	na	n	у
82	34454674	Sun 2021	gastroesopha geal cancer	Merck	full	у	superiority	drug vs placebo	Totally favorable	у	Totally favorable	n	n

 $N=No\ NA=Not\ Applicable\ N=No\ NR=Not\ Reported\ Y=Yes$

Supplementary file 6. Clinical Conditions grouped according to ICD-10

Categorie ICD-10	Clinical Condition	Number of studies (n=82)	Percentage
Chronic lower respiratory	Asthma	3	3,7
diseases	Astima	3	5,7
Dermatitis and eczema	Atopic dermatitis	1	1,2
Disorders of bone density and structure	Low bone mass	1	1,2
Episodic and paroxysmal disorders	Epilepsy	1	1,2
Glomerular diseases	Lupus nephritis	1	1,2
Inflammatory	Rheumatoid arthritis	2	2,4
poryarunopaunes	Gout	1	1,2
	Psoriatic arthritis	2	2,4
Influenza and pneumonia	Influenza	1	1,2
Ischaemic heart diseases	Coronary artery disease	1	1,2
Malignant neoplasm of breast	Breast cancer	4	4,9
Malignant neoplasms of digestive organs	Biliary tract cancer	1	1,2
	Colorectal cancer	2	2,4
	Gastroesophageal cancer	8	9,8
	Hepatocellular carcinoma	2	2,4
Malignant neonlasms of	Cervical cancer	2	2,4
female genital organs	Ovarian cancer	4	4,9
	Endometrial cancer	1	1,2
Malignant neoplasms of ill- defined, secondary and unspecified sites	Head and neck cancer	1	1,2
Malignant neoplasms of male genital organs	Prostate cancer	1	1,2
Malignant neoplasms of respiratory and intrathoracic	Lung cancer	4	4,9
organs	Mesothelioma	2	2,4
Malignant neoplasms of urinary tract	Renal cancer	1	1,2
	Chronic lower respiratory diseases Dermatitis and eczema Disorders of bone density and structure Episodic and paroxysmal disorders Glomerular diseases Inflammatory polyarthropathies Influenza and pneumonia Ischaemic heart diseases Malignant neoplasm of breast Malignant neoplasms of digestive organs Malignant neoplasms of ill-defined, secondary and unspecified sites Malignant neoplasms of male genital organs Malignant neoplasms of respiratory and intrathoracic organs Malignant neoplasms of respiratory and intrathoracic organs Malignant neoplasms of	Chronic lower respiratory diseases Dermatitis and eczema Atopic dermatitis Disorders of bone density and structure Episodic and paroxysmal disorders Glomerular diseases Lupus nephritis Rheumatoid arthritis Inflammatory polyarthropathies Gout Psoriatic arthritis Influenza and pneumonia Ischaemic heart diseases Malignant neoplasm of breast Malignant neoplasms of digestive organs Malignant neoplasms of female genital organs Malignant neoplasms of male genital organs Malignant neoplasms of respiratory and intrathoracic organs Malignant neoplasms of respiratory and intrathoracic organs Malignant neoplasms of Repal cancer Mesothelioma Malignant neoplasms of Repal cancer Mesothelioma Repal cancer	Categoric RCD-10 Clinical Condition Studies (n=82) Chronic lower respiratory diseases Dermatitis and eczema Atopic dermatitis Disorders of bone density and structure Low bone mass Low bone mass Low bone mass Lupus nephritis Epilepsy Inflammatory polyarthropathies Gout Psoriatic arthritis Influenza and pneumonia Influenza Influen

	Malignant neoplasms, stated or presumed to be primary, of lymphoid, haematopoietic	Lymphoma	4	4,9
	and related tissue	Multiple myeloma	3	3,7
Melanoma and other malignant neoplasms of skin		Melanoma	3	3,7
Endocrine, nutritional	Metabolic disorders	Hypercholesterolemia	1	1,2
and metabolic diseases	Metabolic disorders	X-linked hypophosphataemia	1	1,2
Diseases of the digestive system	Noninfective enteritis and colitis	Crohn's Disease	1	1,2
Diseases of the musculoskeletal system and connective tissue	Osteopathies and chondropathies	Fibrous dysplasia of bone	1	1,2
Certain infectious and parasitic diseases	Other bacterial diseases	Septic shock	2	2,4
Congenital malformations, deformations and chromosomal abnormalities	Other congenital malformations	Ichthyosis	1	1,2
Diseases of the musculoskeletal system and connective tissue	Other dorsopathies	Chronic low back pain	1	1,2
Certain infectious and parasitic diseases	Other viral diseases	COVID-19	10	12,2
Diseases of the skin and subcutaneous tissue	Papulosquamous disorders	Psoriasis	5	6,1
Factors influencing health status and contact with health services	ealth status and personal history and certain conditions influencing health		1	1,2
Diseases of the musculoskeletal system and connective tissue	Systemic connective tissue disorders	Sjogren's syndrome	1	1,2

Supplementary file 7. List of pharmaceutical industries sponsors

Pharma sponsor	Studies sponsored	% of included studies (n=82)
Roche	15	18,3%
Bristol Myers Squibb	11	13,4%
Lilly	7	8,5%
Merck	7	8,5%
regeneron pharmaceuticals	7	8,5%
Ono Pharmaceutical	5	6,1%
sanofi	5	6,1%
Amgen	4	4,9%
Janssen	4	4,9%
Jiangsu Hengrui	4	4,9%
JSC BIOCAD	3	3,7%
Pfizer	3	3,7%
AbbVie	2	2,4%
AstraZeneca	2	2,4%
Boehringer Ingelheim	2	2,4%
Eisai	2	2,4%
Glycotope GmBH	2	2,4%
Novartis	2	2,4%
Takeda	2	2,4%
Adrenomed AG	1	1,2%
Alvotech Swiss AG	1	1,2%
Avalo Therapeutics	1	1,2%
biogen	1	1,2%
Celltrion	1	1,2%
Clinigen	1	1,2%
Exelixis	1	1,2%
Gilead Sciences	1	1,2%
GlaxoSmithKline	1	1,2%
humanigen	1	1,2%
InflaRx	1	1,2%
innovent bio	1	1,2%
Ipsen Pharma	1	1,2%
Kyowa Kirin International	1	1,2%
Prometheus Laboratories	1	1,2%
Shanghai Henlius Biotech	1	1,2%
Vir Biotechnology	1	1,2%