Search History:

Limited Classification Search

The Patent Analyst performed a limited classification search within the following US, IPC, CPC, ECLA, or F-Term classification areas:

CPC Class/Subclass(es): C07K 2319/03; C07K 2319/33; C12N 5/0636; C12N 15/113; C12N 2310/20 (2020.01)

IPC (8) Class/Subclass(es): C07K 14/705; C12N 5/00; C12N 9/22; C12N 15/113 (2020.01)

U.S. Class/Subclass(es): 424/93.71; 435/199

See Global Search Results.

Global Patent Literature Text Search

The Patent Analyst performed the following global text search, which was not limited by classification but may or may not have been limited by other criteria:

Questel Orbit: https://www.orbit.com

#	Search query	Results
1	**((INTIMA D BIOSCIENCE?)/PA/OPA/PAH/OWR/REAS)**	**7**
2	((HENLEY D THOMAS)/IN/OIN/INH/INV)	37
3	((CHOUDHRY D MODASSIR)/IN/OIN/INH/INV)	7
4	((VINEY D LYDIA)/IN/OIN/INH/INV)	2
5	2 OR 3 OR 4	42
6	**5 NOT 1**	**35**
7	((EXOGEN+ OR RECOMBIN+ OR TRANSGEN+ OR HETEROLOG+ OR FOREIGN OR CHIMER+ OR CHIMAER+) 10D RECEPTOR?)/TI/AB/CLMS/DESC/ODES	56755
8	((IMMUN+ OR "T" OR "B") 0W (CELL? OR LYMPHOCYTE?))/TI/AB/CLMS/DESC/ODES	295469
9	(CRISPR)/TI/AB/CLMS/DESC/ODES	13019
10	((INHIBIT+ OR REDUC+ OR DECREAS+ OR SUPPRESS+ OR BLOCK+ OR DISRUPT+ OR INACTIVAT+) S (EXPRESS+) S (CANDIDATE? OR TARGET?))/TI/AB/CLMS/DESC/ODES	133425
11	7 AND 8 AND 9 AND 10	1053
12	((EXOGEN+ OR RECOMBIN+ OR TRANSGEN+ OR HETEROLOG+ OR FOREIGN OR CHIMER+ OR CHIMAER+) 10D RECEPTOR?)/TI/AB/CLMS	9797
13	((IMMUN+ OR "T" OR "B") 0W (CELL? OR LYMPHOCYTE?))/TI/AB/CLMS	54151
14	(CRISPR)/TI/AB/CLMS	4265

15	((INHIBIT+ OR REDUC+ OR DECREAS+ OR SUPPRESS+ OR BLOCK+ OR DISRUPT+ OR INACTIVAT+) S (EXPRESS+) S (CANDIDATE? OR TARGET?))/TI/AB/CLMS	15981
16	**11 AND 12 AND 13 AND 14 AND 15**	**42**
17	(CANCER+ OR TUMO+ OR NEOPLAS+ OR HYPERPLAS+ OR HYPERPROLIFERAT+)/TI/AB/CLMS/DESC/ODES	1165364
18	(CANCER+ OR TUMO+ OR NEOPLAS+ OR HYPERPLAS+ OR HYPERPROLIFERAT+)/TI/AB/CLMS	323546
19	11 AND 12 AND 13 AND 15 AND 18	96
20	19 NOT 16	57
21	((CANCER+ OR TUMO+ OR NEOPLAS+ OR HYPERPLAS+ OR HYPERPROLIFERAT+) S (CELL?))/TI/AB/CLMS/DESC/ODES	504533
22	((CANCER+ OR TUMO+ OR NEOPLAS+ OR HYPERPLAS+ OR HYPERPROLIFERAT+) S (CELL?))/TI/AB/CLMS	125253
23	(ANTIGEN? S (SPECIFIC OR SPECIFICALLY OR COGNATE) S RECEPTOR?)/TI/AB/CLMS/DESC/ODES	53439
24	(ANTIGEN? S (SPECIFIC OR SPECIFICALLY OR COGNATE) S RECEPTOR?)/TI/AB/CLMS	5910
25	(SCREEN??? OR TEST???)/TI/AB/CLMS	4778990
26	**20 AND 22 AND 24 AND 25**	**8**
27	**(20 AND 22 AND 24) NOT 26**	**25**
28	**20 NOT (27 OR 26)**	**24**
29	C12N-005/0634/CPC	613
30	C12N-005/0636/CPC	2332
31	C12N-009/22/CPC	3428
32	C12N-2310/20/CPC	1500
33	C07K-014/705/CPC	13461
34	C07K-2319/03/CPC	1660
35	C07K-2319/33/CPC	1800
36	C12N-015/113/CPC	15148
37	(29 OR 30) AND (31 OR 32) AND (33 OR 34 OR 35 OR 36)	57
38	**37 NOT (19 OR 16)**	**44**
39	C12N-005/00/IPC	27286
40	C12N-009/22/IPC	4840
41	C07K-014/705/IPC	18991
42	C12N-015/113/IPC	21791
43	**39 AND 40 AND 41 AND 42**	**6**

44	435007240/PCL	1648
45	424093710/PCL	774
46	435199/PCL	1078
47	514044000A/PCL	6980
48	**46 AND 47**	**19**
49	**(44 OR 45) AND (46 OR 47)**	**45**

Google Patents: https://patents.google.com

#	Search query	Results
1	((exogen$) OR (recombin$) OR (transgen$)) (("t cell") OR ("t cells") OR ("immune cell") OR ("immune cells")) (receptor?) (antigen??) (population?) (cancer$) (crispr) ((disrupt$) OR (inhibit$)) (candidate?) (gene?) ((screen???) OR (test???))	1131
2	**((CL=exogen$) OR (CL=recombin$) OR (CL=transgen$)) ((CL="t cell") OR (CL="t cells") OR (CL="immune cell") OR (CL="immune cells")) (CL=receptor?) (CL=antigen??) (population?) (cancer$) (crispr) ((disrupt$) OR (inhibit$)) (candidate?) (gene?) ((CL=screen???) OR (CL=test???)) ("in vitro")**	**32**
3	**((CL=exogen$) OR (CL=recombin$) OR (CL=transgen$)) ((CL="t cell") OR (CL="t cells") OR (CL="immune cell") OR (CL="immune cells")) (CL=receptor?) (CL=antigen??) (CL=population?) (CL=cancer$) (CL=crispr) ((disrupt$) OR (inhibit$)) (candidate?) (gene?) ((screen???) OR (test???)) ("in vitro")**	**31**
4	**((CL=exogen$) OR (CL=recombin$) OR (CL=transgen$)) ((CL="t cell") OR (CL="t cells") OR (CL="immune cell") OR (CL="immune cells")) (CL=receptor?) (CL=antigen??) (CL=population?) (CL=cancer$) (crispr) ((CL=disrupt$) OR (CL=inhibit$) OR (CL=inactivat$)) (candidate?) (gene?) ((screen???) OR (test???)) ("in vitro")**	**40**

Computer Accessed Text Databases Searched

The Patent Analyst searched the following computer accessed text databases:

PubMed.gov (NCBI): http://www.ncbi.nlm.nih.gov/pubmed

#	Search query	Results
1	**(Henley, Thomas[Author]) OR Choudhry, Modassir[Author]) OR (Viney, Lydia[Author])**	**3**
2	(exogenous) AND (receptor) AND (antigen) AND (CRISPR) AND (cancer) AND (screen OR test)	1445
3	(exogenous) AND (receptor) AND (antigen) AND (CRISPR) AND (cancer) AND (screen OR test) AND (candidate) AND (gene) AND (suppress OR inhibit) AND (expression)	418
4	("chimeric antigen receptor") AND (antigen) AND (CRISPR) AND (cancer) AND (screen OR test) AND (candidate) AND (gene) AND (suppress OR inhibit) AND (expression) AND (in vitro) AND (immune OR T) AND (cell)	152

Google Scholar: https://scholar.google.com/

#	Search query	Results
1	**"single candidate gene" crispr "t cell"**	**21**
2	**"single candidate" cognate exogenous antigen receptor "t cell"**	**20**
3	candidate gene cancer screen CRISPR cognate exogenous antigen receptor "t cell"	434
4	**candidate gene inactivation cancer screen CRISPR "cognate antigen" exogenous receptor**	**72**

Date search was completed: 29 January 2020

GO/JJ