

Reduce the risk of missing genetically engineered sequence patents

Carolyn Finch,
Solution Scientist Team Lead

October 2018



Agenda

Latest trends in immuno-oncology research	01
Introduction to GENESEQ	02
Searching for CAR sequences in GENESEQ on SequenceBase	03
Due diligence research in Derwent Innovation	04

Breaking news: The 2018 Nobel Prize in physiology or medicine goes to....

- Professor Tasuku Honjo, Kyoto University and Professor James Allison, MD Anderson Cancer Center
 - For the discovery of **immune checkpoint inhibitor PD-1 (programmed cell death 1)**



BioWorld

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Clarivate Analytics

October 2, 2018
Volume 29, No. 191



Checkpoint inhibition work earns Nobel for Kyoto's Honjo, MD Anderson's Allison

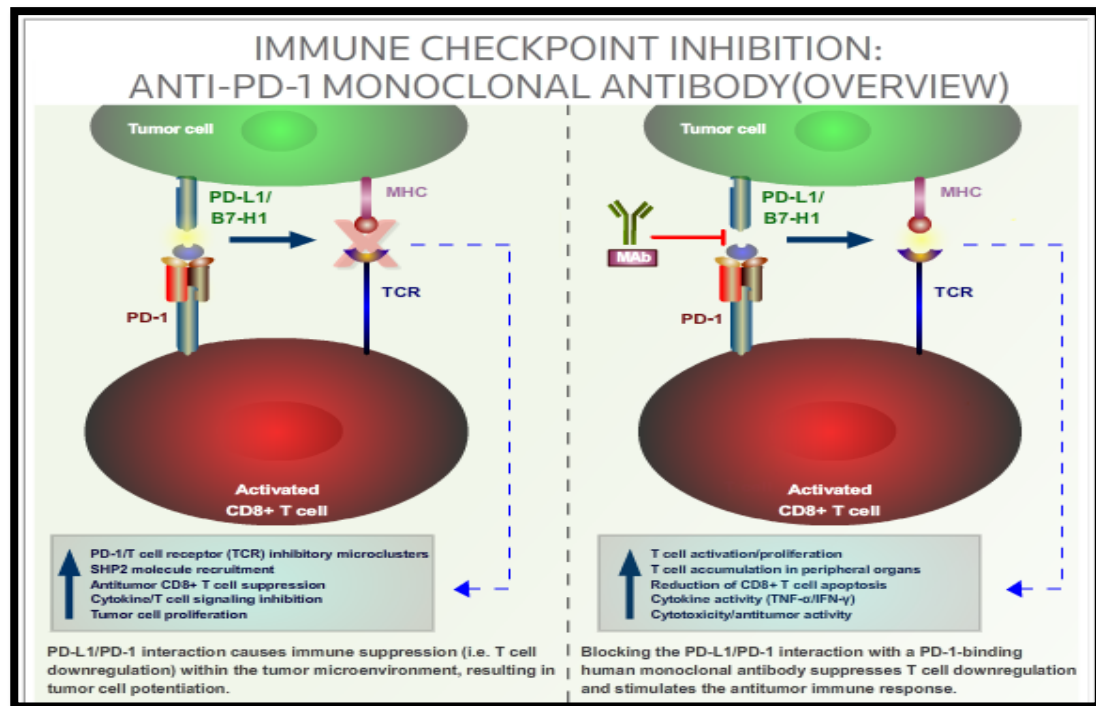
By Nuala Moran, Staff Writer

LONDON – Braced for canceled classes after Typhoon Trami crossed west Japan overnight on Sunday, Kyoto University instead found itself swept up in a far more genial atmosphere, as news broke Monday that Tasuku Honjo, staff member since 1984, had won the 2018 Nobel prize in physiology or medicine. Honjo was recognized for his 1992 discovery of the immune checkpoint inhibitor PD-1 (programmed cell death -1). He shares the award equally with James Allison, of MD Anderson Cancer Center at the

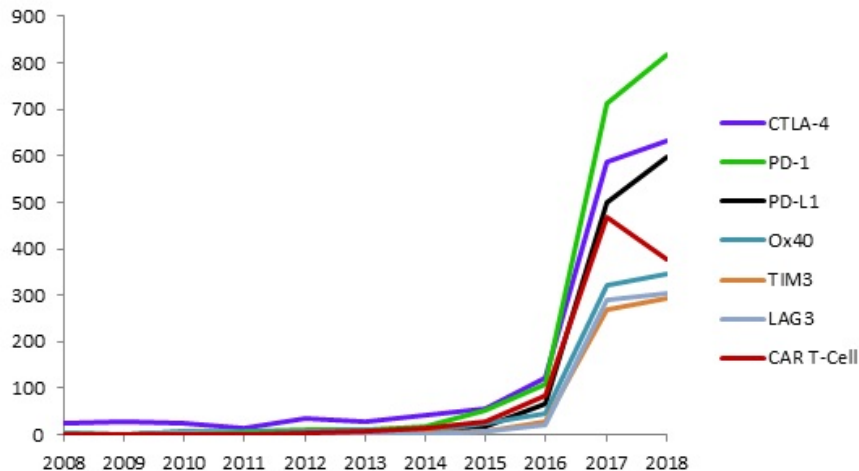
See Nobel, page 3

What is immuno-oncology (IO)?

- Tumor cells are different to normal cells. Therefore, one might expect the immune system to recognise and destroy tumor cells. However, this does not always happen.
- Immuno-oncology is the study of the immune system in relation to cancer. It is helping us to understand how tumors escape the body's immune response.
- Cancer immunotherapies such as anti-PD-1 antibodies are being developed to enable the immune system to recognise and kill cancer cells.



Immuno-oncology patent families 2008-2018



Volume of DWPI families in six checkpoint inhibitor targets (CTLA-4, PD-1, PD-L1, Ox40, TIM3 and LAG3) and CAR T-cell therapy from 2008-May 2018.

Projecting 2018 partial volumes, we see continuing growth rates of between 124% for CAR T and 234% for PD-L1 closely followed by PD-1 at 220% growth over 2017.

Source: Derwent Innovation (DWPI)

Chart taken from Clarivate's webinar (May 2018): [Innovation trends in immuno-oncology](#)

Chimeric Antigen Receptor (CAR) T-cell therapy

- Adoptive cell immunotherapy was named as “**Advance of the Year**” at ASCO 2018 in June.¹
- T-cells are collected from a cancer patient and genetically engineered to produce a chimeric antigen receptor (CAR) which binds to a tumor-specific antigen. Inside the patient, CAR-T cells will recognise and destroy tumor cells.

81%

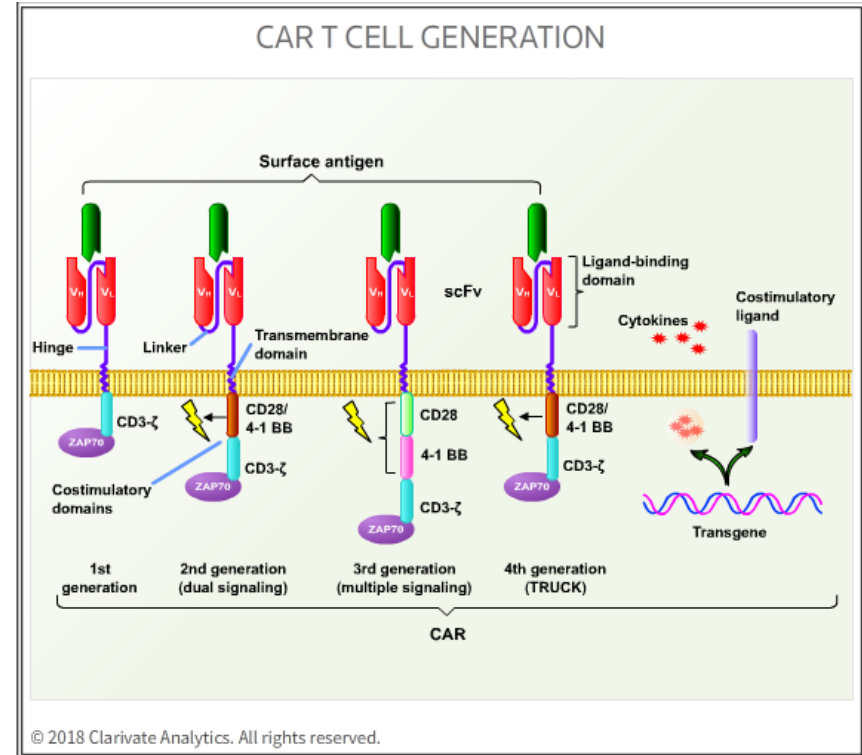
- of children and young adults with B-cell lymphoblastic leukemia in ELIANA trial **treated with CAR-T therapy** tisagenlecleucel who **achieved complete remission** or complete remission with incomplete blood count recovery at three months.²

1. <https://www.asco.org/research-progress/reports-studies/clinical-cancer-advances-2018/advance-year>

2. Maude S.L. et al, N Engl J Med 2018, 378(5): 439 “Tisagenlecleucel in children and young adults with B-cell lymphoblastic leukemia”

Anatomy of a Chimeric Antigen Receptor (CAR)

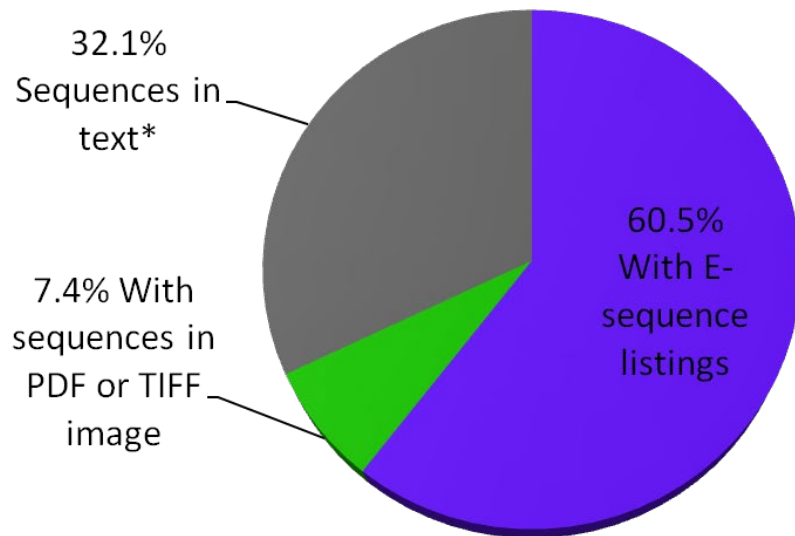
- CARs are composed of:
 - an extracellular binding domain (e.g. single-chain variable fragments (scFv) derived from tumor antigen-reactive antibodies)
 - a hinge region,
 - a transmembrane domain, and
 - CD3 ζ chain intracellular signaling domain.
- CARs also contain co-stimulatory domains, like CD28 and/or 4-1BB.
- Current research is investigating “smart T cells” with built-in safety controls (e.g. suicide genes).



CAR-T patent challenges

- Ongoing legal dispute regarding “obviousness” of combining certain sequences, in particular a version of CD28 which includes the “MYPPPY” amino acid motif.
- Important to know the precise sequences being used in a chimeric antigen receptor.
- Not all sequences in a patent are necessarily included in the electronic sequence listing,

GENESEQ Sequence Capture – WO docs Q3 2017



**for some of the patents in the ‘Sequences in text’ only category, sequence listings files are available via manual searching using the PN on WIPO, but are not present in the auto-download of SL data from WIPO*

Challenges of sequence searching

- Using public or proprietary sequence databases which rely on electronic sequence listings and original, local language descriptions can be costly:
 - **High risk of missing important patent documents** and therefore exposing your company to liabilities or wasting R&D resources.
 - **Waste precious time and effort** trying to assess the relevance of specific sequences or documents.
 - **Spend money on expensive translations**, possibly to find that the document is not relevant.



Immuno-oncology use case using GENESEQ and Derwent Innovation

Use Case: Freedom-to-operate



around biological sequences



Workflow:



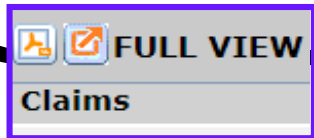
Search biological sequences in GENESEQ on SequenceBase

Upload patent list into Derwent Innovation for IP due diligence

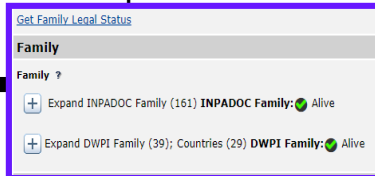


Leverage unique GENESEQ content and deep indexing

Full-text documents



DWPI patent families



Charts



Search example – CD3zeta and CD28

- **CD3 zeta (164 amino acids)**
- MKWKALFTAAILQAQLPITEAQSFGLLDPKLCYLLDGILFIYGVILTALFLRVKFSRSAD
APAYQQGQNQLYNELNLGRREEYDVLDKRRGRDPEMGGKPQRRKNPQEGL
YNELQKDKMAEAYSEIGMKGERRRGKGGHDGLYQGLSTATKDTYDALHMQALPPR
- **CD28 (220 acids)**
- MLRLLLALNLFPSIQVTGNKILVKQSPMLVAYDNAVNLSCKYSYNLFSREFRASLHKGLDSAVEVCVVYGNYSQQQLQV
YSKTGFNCDGKLGNESVTFYLQNLVYNQTDIYFCKIEV**MYPPPY**LDNEKSNGTIIHVKGKHLCPSPFLPGPSKPFWVL
VVVGGVLACYSLLVTVAFIIFWVRSKRSRLLHSDYMNMTTP RRPGPTRKHYPYAPPRDFAAYRS

IP due diligence on genetic sequence patents using Derwent Innovation

Bob Stembridge
Senior IP Analyst

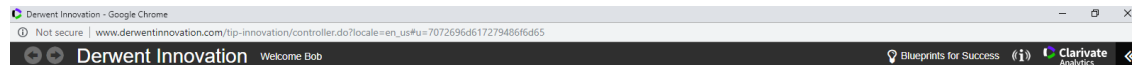
October, 2018



Agenda

Introduction to Derwent Innovation	01
Transferring GENESEQ results into Derwent Innovation	02
General insights	03
Legal status & ownership	04

Introduction to Derwent Innovation



SMART SEARCH

SEARCH

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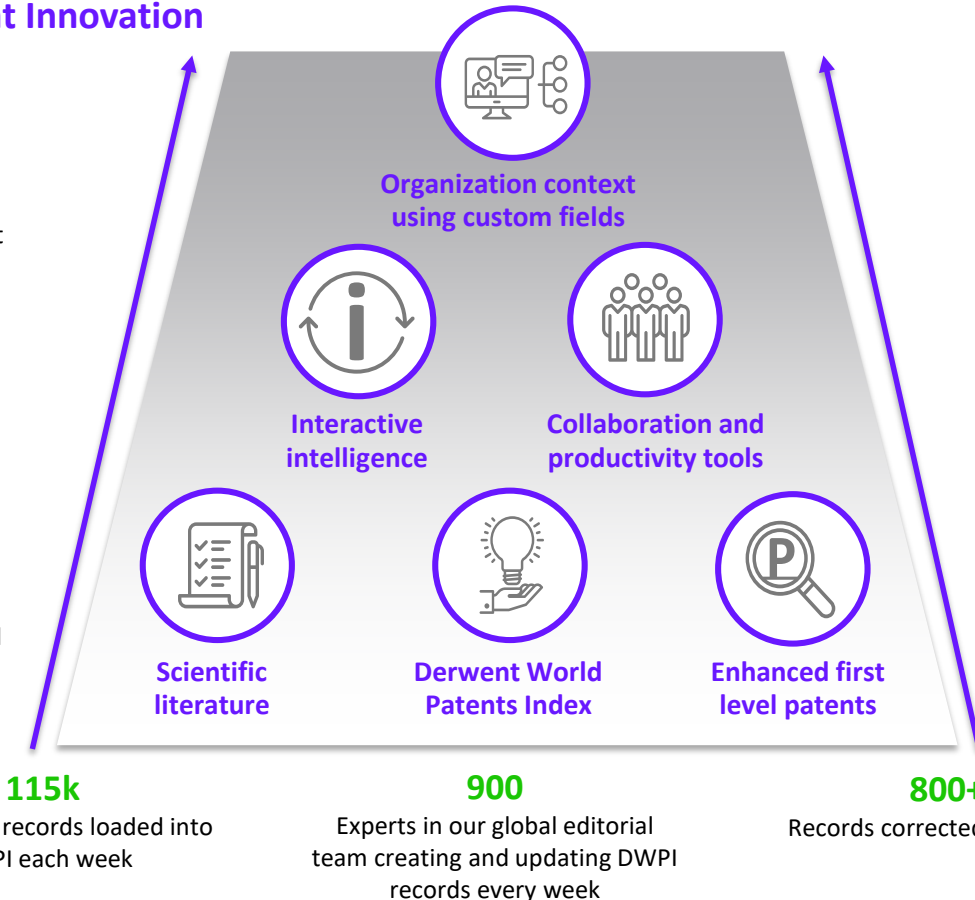


Application: Derwent Innovation

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new patent records loaded into DWPI each week

900
Experts in our global editorial team creating and updating DWPI records every week

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Records corrected each week

Transferring GENESEQ results into Derwent Innovation



Export from GENESEQ, import into Derwent Innovation

- Data can be exported from GENESEQ in numerous formats, including Excel, to perform further analyses that can be shared with colleagues or clients
- The Text export option is specifically for exporting lists of deduplicated patent numbers
- The list of patent numbers can either be uploaded or copied into Derwent Innovation

Summary Search Evaluate Docs

Manage and export project results

Selected documents: 59 of 59 Select all

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Showing 1 to 25 of 59 entries

DB	Family	Document	Auth
<input checked="" type="checkbox"/>	489655	CN107083398	Chr
<input checked="" type="checkbox"/>	491463	WO2017159639	WIP
<input checked="" type="checkbox"/>	492302	WO2017165681	WIP
<input checked="" type="checkbox"/>	374904	WO2016128912 A1	WIPO

Report will include the list of documents.

Report name:



Derwent Innovation Welcome Bob

DASHBOARD

PATENT SEARCH PUBLICATION NUMBER

SEARCH

QUICK SEARCH

INTENT

LITERATURE

ALL CONTENT

NOTE APPRAISE

SEARCH HISTORY

MARKED LIST

Number type: Patent Publication Number DOI/Accession Number

Output type: Result Set Work File Document Copies File Histories CIA Images

Specialized Search options: none

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SEARCH RESULTS

No records

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Organization: New folder

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0 Reference material

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File name: All Files

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 WO2016073629 CN106467573 WO2017032293 WO2017088623 EP2995682 CA2958807



Specialized Search options None

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Item	Publication Number	Assignee/Applicant	Optimized Assignee	Publication Date	Current IPC
1	CN104087607A	SHANGHAI YIJIE BIOTECHNOLOGY CO LTD	SHANGHAI YIKELAI BIOLOGICAL MEDICINE TEC	2014-10-08	C12N 15/62
	<p>DWPI Drawing:</p>  <p>Title: Nucleic acid for coding chimeric antigen receptor protein and T lymphocyte for expression of chimeric antigen receptor protein DWPI Title: New nucleic acid encoding chimeric antigen receptor protein useful for producing transgenic T cell</p>				
2	WO2014180306A1	SHANGHAI YIJIE BIOTECHNOLOGY CO LTD	SHANGHAI YIJIE BIOTECHNOLOGY CO LTD	2014-11-13	C12N 15/09
	<p>DWPI Drawing:</p>  <p>Title: NUCLEIC ACID OF CODED GPC3 CHIMERIC ANTIGEN RECEPTOR PROTEIN AND T LYMPHOCYTE EXPRESSING GPC3 CHIMERIC ANTIGEN RECEPTOR PROTEIN</p>				

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General insights



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PATENT SEARCH **PUBLICATION NUMBER**

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US20160303166 US20180142035 US20170159025 US20160215261 US20170252435 US20170247428
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Search

SEARCH RESULTS

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2	WO2014180306A1	SHANGHAI YIJIE BIOTECHNOLOGY CO LTD	SHANGHAI YIJIE BIOTECHNOLOGY CO LTD		C12N 15/09

- Charts (Beta)
- Charts
- Text Clustering

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Derwent Innovation Charts



Competitive intelligence

Who are the major players?
Identify the top assignees in this result set.

Where has this technology been developed?
Uncover where companies file for initial protection. See which countries/regions are found in this search.

What are my competitors working on?
Understand which technical areas the competition is focusing on

charts (beta)

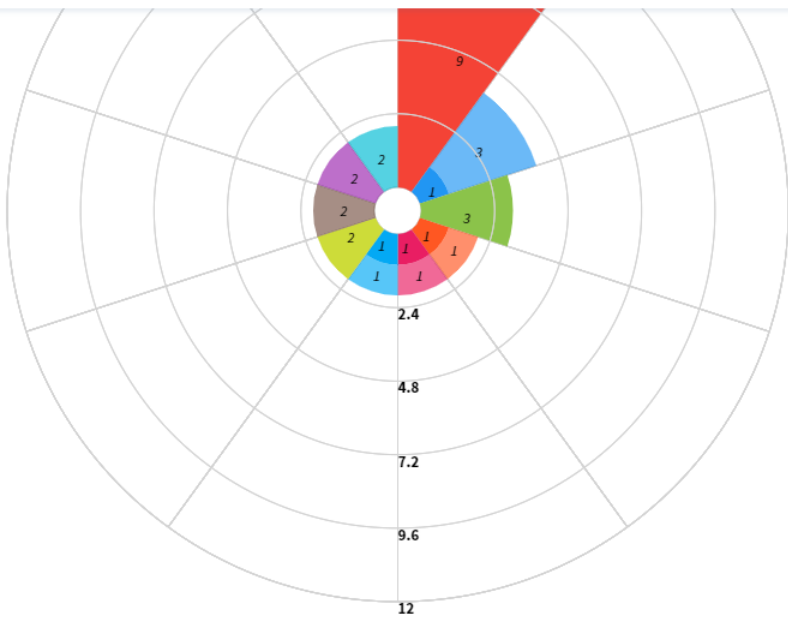
added as they are developed.

bove.

records

ing 38 records!

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- PROSPECT CHAKI EKLAKE KWMC LLC D/B/A ROGER WILLIAMS MEDICAL CENTER (2)
 - ALETA BIOTHERAPEUTICS INC (2)
 - GUANGZHOU CAS LAMVAC BIOTECH CO LTD (2)
 - CANCER RES TECH LTD (2)
 - THE UNIV OF BIRMINGHAM (2)
 - CARSGEN THERAPEUTICS CO LTD (2)
- Dead
 Indeterminate
 Alive



KEY INSIGHTS

200%

In this chart, the top assignee, **CARSGEN THERAPEUTICS LTD** has 200 % (8 records) more than their closest competitor, **MOLMED SPA**.

36%

Compared to the top 10 competitors in this result set, **CARSGEN THERAPEUTICS LTD** has 36 % of those inventions.

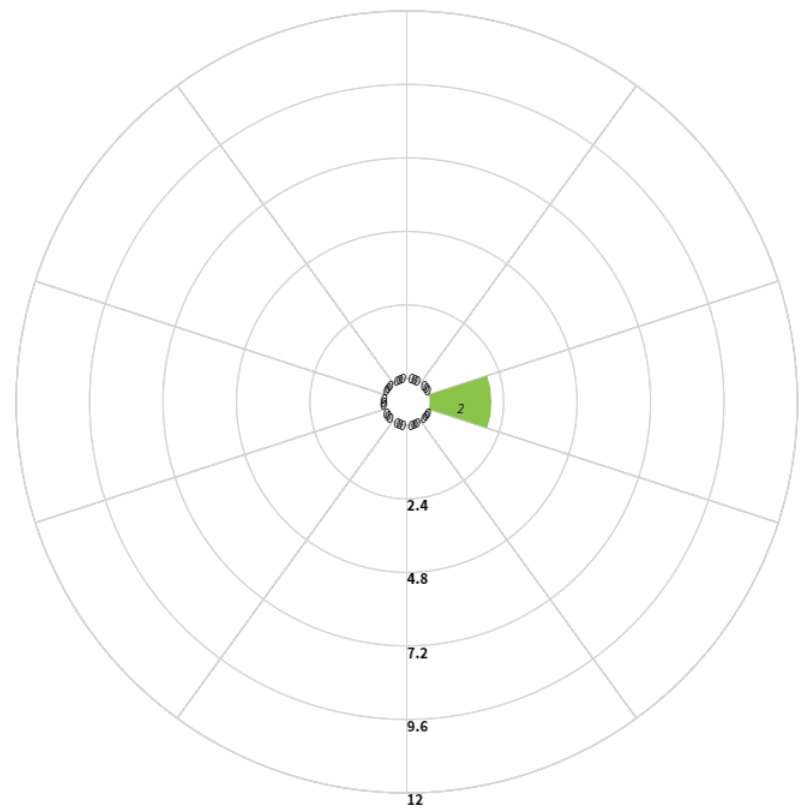
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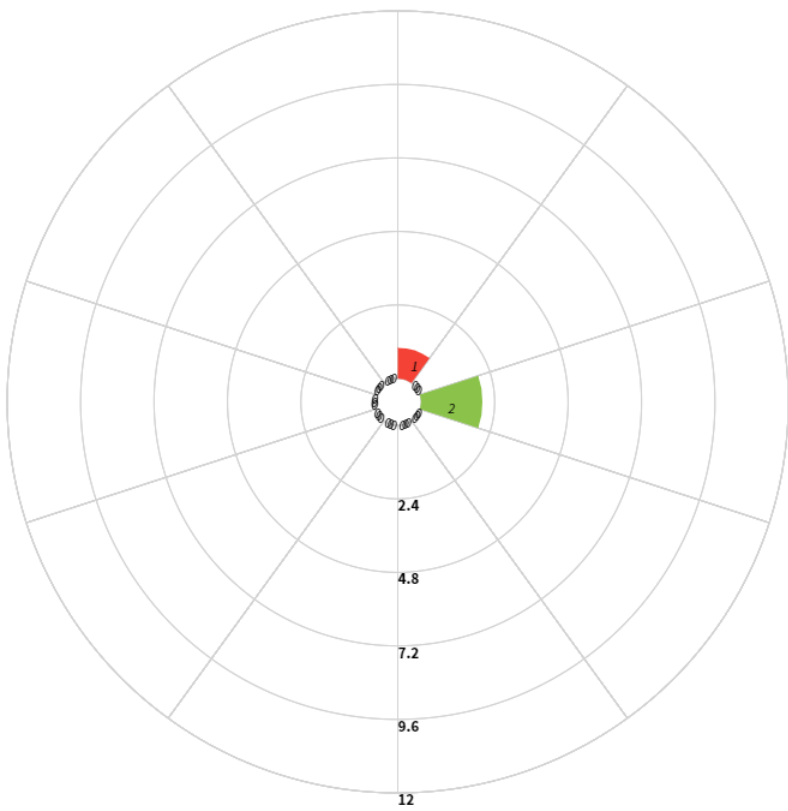
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- CANCER RES TECH LTD (0)
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- GUANGZHOU CAS LAMVAC BIOTECH CO LTD (0)
- CARSGEN THERAPEUTICS CO LTD (0)



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- CARSGEN THERAPEUTICS LTD (1)
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- SHANGHAI YIJIE BIOTECHNOLOGY CO LTD (2)
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2015

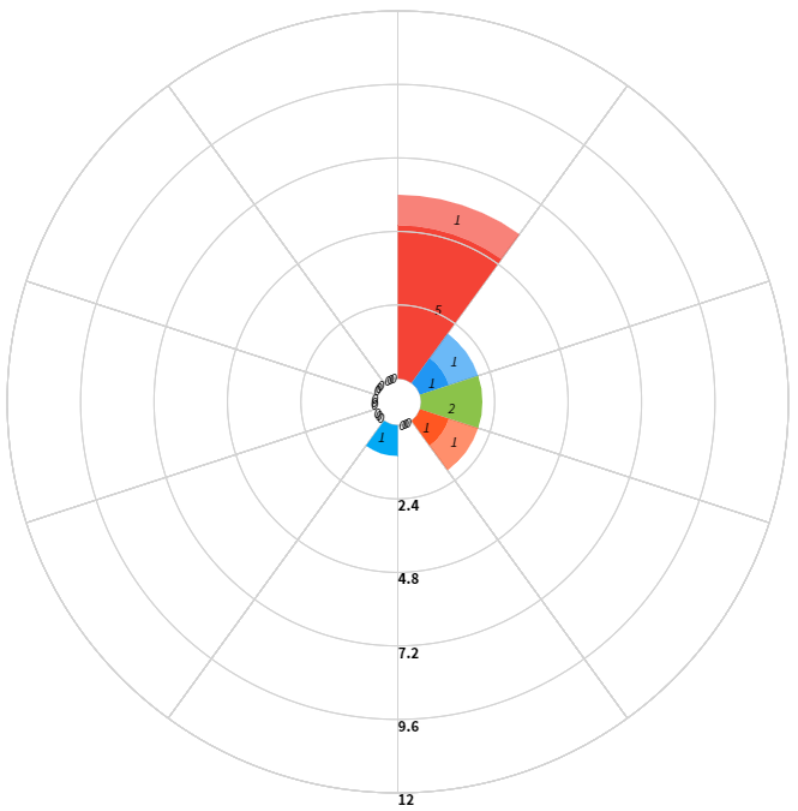
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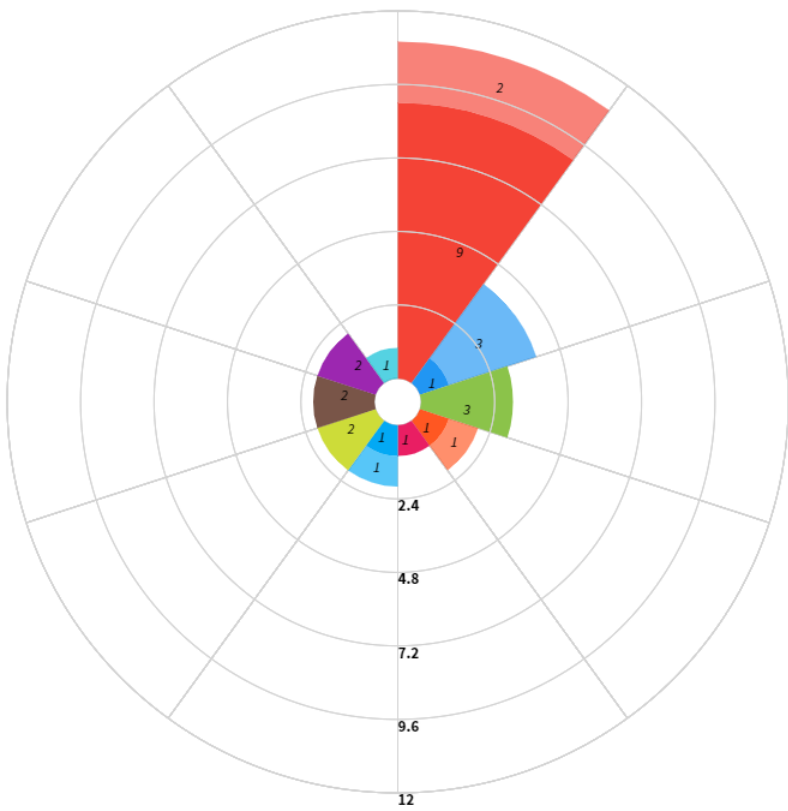
2016

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2017

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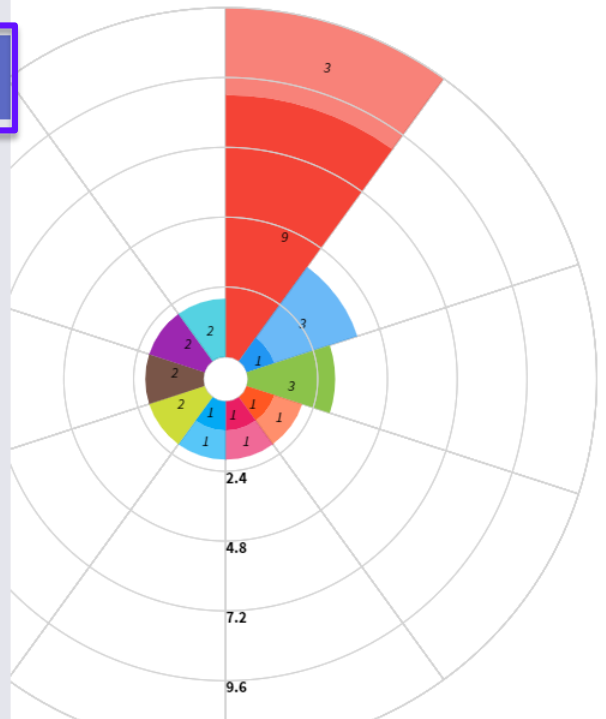
What are my competitors working on?
Understand which technical areas the competition is focusing on

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- SHANGHAI YIJIE BIOTECHNOLOGY CO LTD (3)
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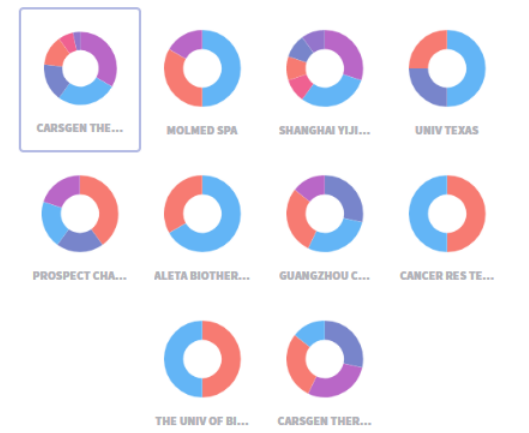
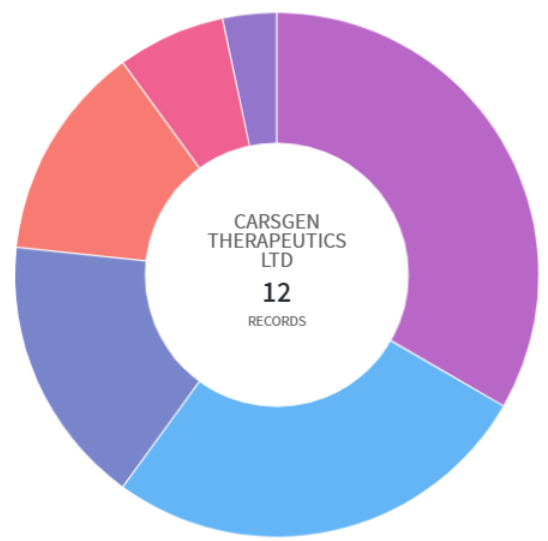
What are my competitors working on?

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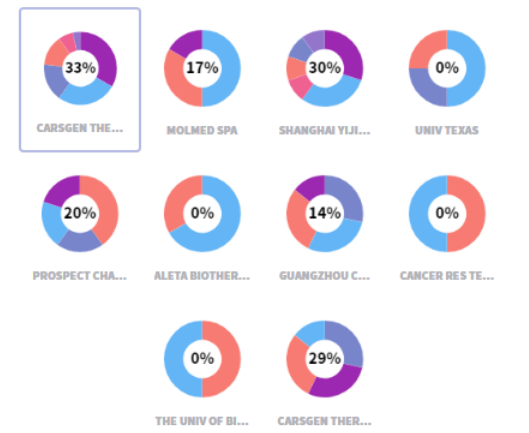
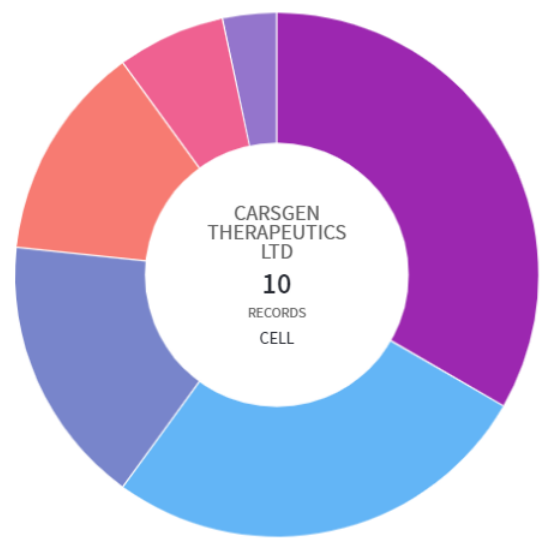
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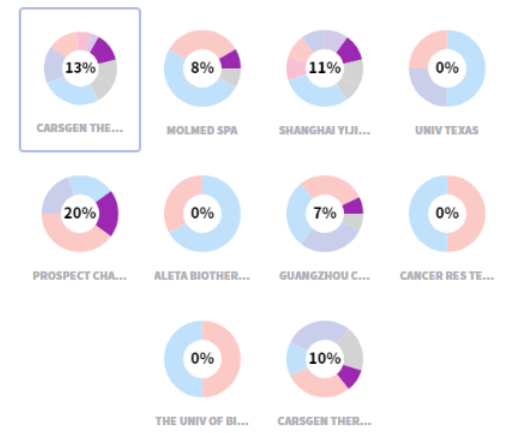
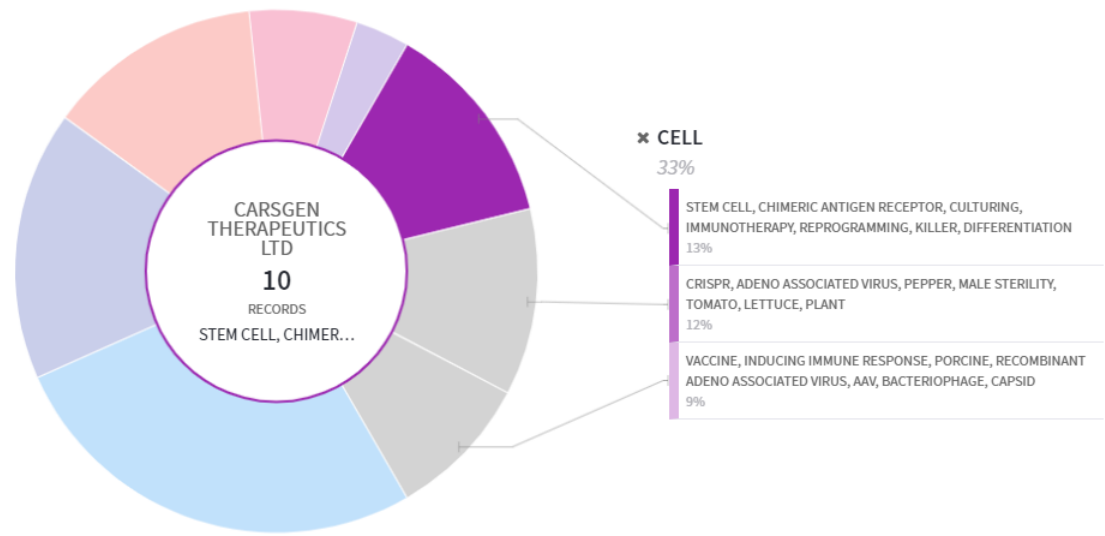
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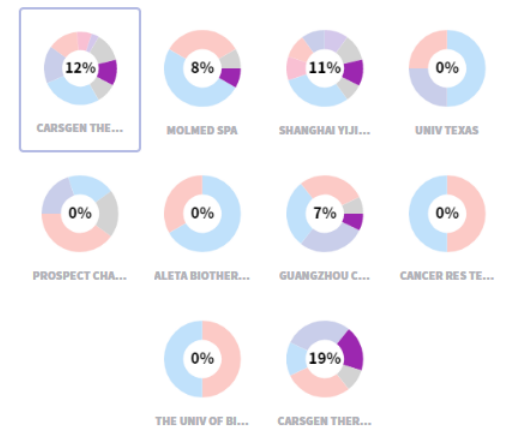
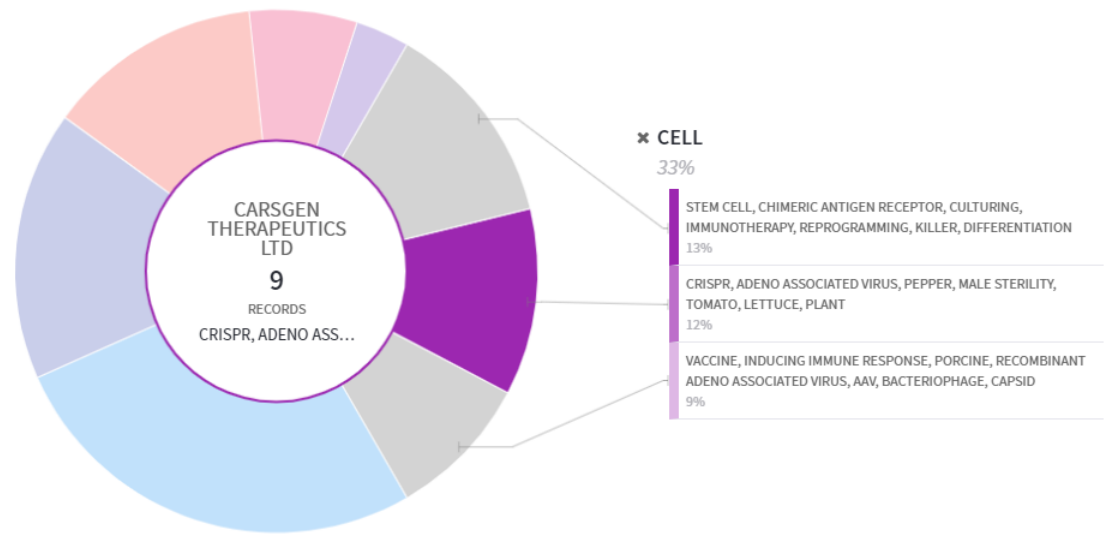
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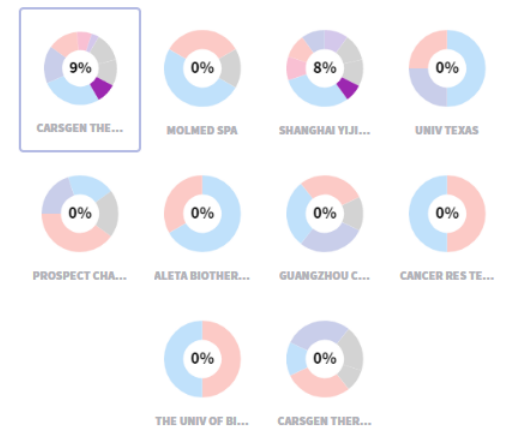
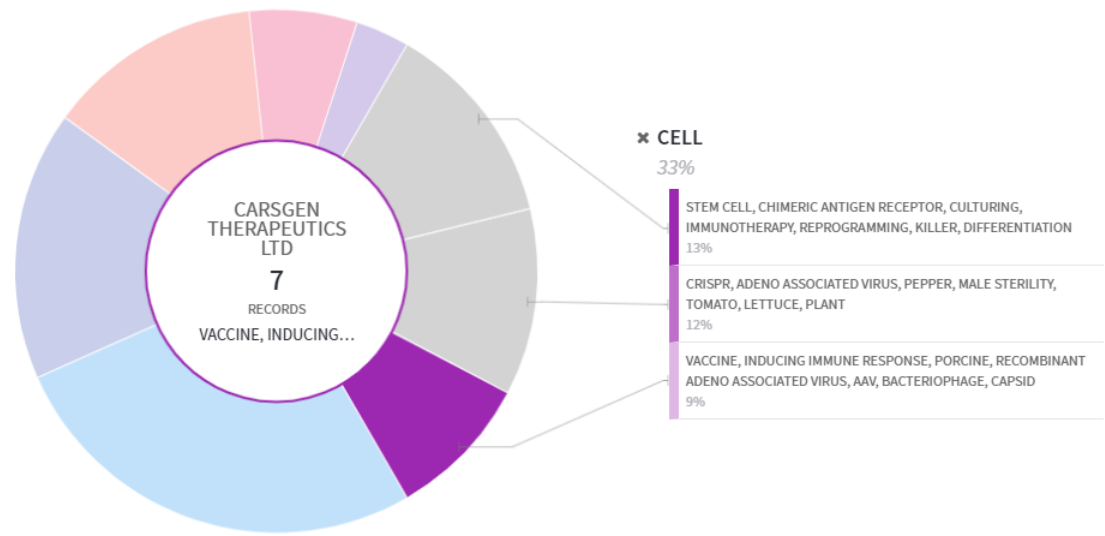
What are my competitors working on?

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2018

Legal status and ownership






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Key Summary Data

Patent: ● Alive

DWPI Family: ● Alive View Details

INPADOC Family: ● Alive View Details

Original Assignee: Keji Biological Medicine (shanghai) Co. Ltd., S...

Optimized Assignee: SHANGHAI YIKELAI BIOLOGICAL MEDICINE TEC

Ultimate Parent: SHANGHAI YIKELAI BIOLOGICAL MEDICINE TEC

Publication Date: 2017-06-20

Expiration Date: 2033-04-01 (estimated) [View factors](#)

Remaining Life: 5296 days (14 year(s), 5 month(s))

Bibliography

DWPI Title ?

New nucleic acid encoding chimeric antigen receptor protein useful for producing transgenic T cell

Original Title ?

nucleic acid and expressing a chimeric T lymphocyte antigen receptor protein encoding chimeric antigen receptor protein (Translation from Clarivate Analytics)

English Title ?

-

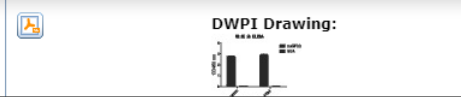
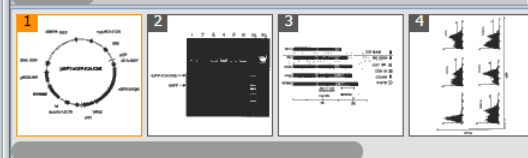
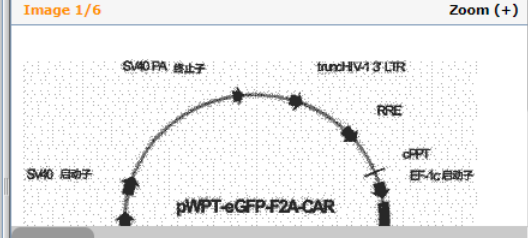
Assignee/Applicant ?

Original: Keji Biological Medicine (shanghai) Co. Ltd., Shanghai, 200031, CN

Optimized Assignee/Ultimate Parent ?

Optimized Assignee	Ultimate Parent
SHANGHAI YIKELAI BIOLOGICAL MEDICINE TEC	SHANGHAI YIKELAI BIOLOGICAL MEDICINE TEC

IMAGES



CO LTD MEDICINE TEC

Title: An anti-glycan-3 antibody and an application thereof

DWPI Title: Antibody used in pharmaceutical composition for preparing medicament, targeting drug or drug conjugate for targeting, diagnosing or inhibiting tumor, has light chain variable region and heavy chain variable region

Publication Date	Current IPC
2016-03-24	C07K 19/00
2014-10-08	C12N 15/62
2017-06-20	C12N 15/62
2016-09-07	C07K 19/00
2017-02-15	C07K 16/28

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Key Summary Data

Patent: ● Alive
 DWPI Family: ● Alive View Details
 INPADOC Family: ● Alive View Details
 Original Assignee: Keji Biological Medicine (Shanghai) Co., Ltd.
 Optimized Assignee: SHANGHAI YIKELAI BIOLOGICAL MEDICINE TEC
 Ultimate Parent: SHANGHAI YIKELAI BIOLOGICAL MEDICINE TEC

Publication Date: 2017-06-20
 Expiration Date: 2033-04-01 (estimated) View Factors
 Remaining Life: 5206 days (14 year(s), 5 month(s))

Factors considered for expiration date calculation

Publication Number - CN104087607B

Estimated Expiration Date	2033-04-01
Estimated Earliest Effective Filing Date	2013-04-01

Bibliography

DWPI Title ?
 New nucleic acid encoding chimeric antigen receptor protein useful for producing transgenic T cell

Original Title ?
 nucleic acid and expressing a chimeric T lymphocyte antigen receptor protein encoding chimeric antigen receptor protein (Translation from Clarivate Analytics)

English Title ?
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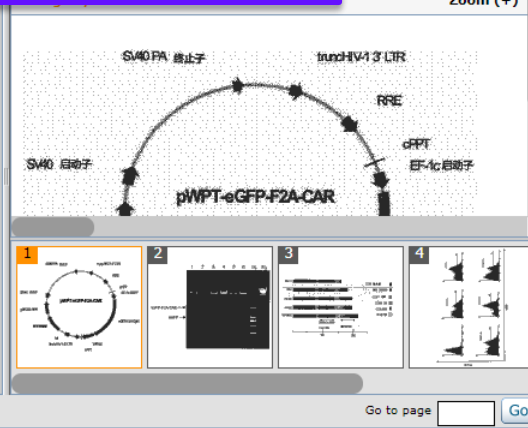
Assignee/Applicant ?
 Original: Keji Biological Medicine (shanghai) Co. Ltd., Shanghai, 200031, CN

Optimized Assignee/Ultimate Parent ?

Optimized Assignee	Ultimate Parent
SHANGHAI YIKELAI BIOLOGICAL MEDICINE TEC	SHANGHAI YIKELAI BIOLOGICAL MEDICINE TEC

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





LITERATURE

ALL CONTENT

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SEARCH HISTORY

MARKED LIST

21	US2010074289A1 DWPI Drawing: 	ALTA BIOTHERAPEUTICS INC	ALTA BIOTHERAPEUTICS INC	2010-05-24	C07K 16/32
		Title: COMPOSITIONS AND METHODS FOR TREATMENT OF CANCER DWPI Title: New cell comprising constitutive expression construct encoding fusion protein comprising antigen binding protein that binds tumor antigen and polypeptide target for cellular therapeutic, useful for treating solid tumor e.g. ovarian cancer			
22	US20180244796A1 DWPI Drawing: 	CARSGEN THERAPEUTICS LTD	CARSGEN THERAPEUTICS LTD	2018-08-30	C07K 16/30
		Title: FULLY HUMAN ANTI-MESOTHELIN ANTIBODIES AND IMMUNE EFFECTOR CELLS TARGETING MESOTHELIN DWPI Title: New human antibody used for preparing targeted antitumor drugs, or agent for diagnosing tumors which express mesothelin e.g. pancreatic cancer and ovarian cancer, comprises heavy chain variable region and light chain variable region			
23	WO2014180306A1 DWPI Drawing: 	SHANGHAI YIJIE BIOTECHNOLOGY CO LTD	SHANGHAI YIJIE BIOTECHNOLOGY CO LTD	2014-11-13	C12N 15/09
		Title: NUCLEIC ACID OF CODED GPC3 CHIMERIC ANTIGEN RECEPTOR PROTEIN AND T LYMPHOCYTE EXPRESSING GPC3 CHIMERIC ANTIGEN RECEPTOR PROTEIN DWPI Title: New nucleic acid capable of resisting chimeric antigen receptor protein of glypican-3 encoded and expressed on surface of human T lymphocyte			
24	WO2015172339A1 DWPI Drawing: 	CARSGEN THERAPEUTICS LTD	CARSGEN THERAPEUTICS LTD	2015-11-19	C12N 15/62
		Title: NUCLEIC ACID FOR CODING CHIMERIC ANTIGEN RECEPTOR PROTEIN AND T LYMPHOCYTE FOR EXPRESSION OF CHIMERIC ANTIGEN RECEPTOR PROTEIN DWPI Title: New nucleic acid capable of encoding chimeric antigen receptor protein expressed on surface of human T lymphocyte, useful for treating cancer e.g. bladder cancer and ovarian cancer			
25	WO2015172339A8 DWPI Drawing: 	CARSGEN THERAPEUTICS LTD	CARSGEN THERAPEUTICS LTD	2016-02-04	C12N 15/62
		Title: NUCLEIC ACID FOR CODING CHIMERIC ANTIGEN RECEPTOR PROTEIN AND T LYMPHOCYTE FOR EXPRESSION OF CHIMERIC ANTIGEN RECEPTOR PROTEIN DWPI Title: New nucleic acid capable of encoding chimeric antigen receptor protein expressed on surface of human T lymphocyte, useful for treating cancer e.g. bladder cancer and ovarian cancer			
26	WO2016042461A1 DWPI Drawing: 	MOLMED SPA	MOLMED SPA	2016-03-24	C07K 14/725
		Title: CHIMERIC ANTIGEN RECEPTORS DWPI Title: New chimeric antigen receptor (CAR) comprises an extracellular spacer comprising at least part of the extracellular domain of human low affinity nerve growth factor or a derivative for use in treating cancer			
27	WO2016073629A1 DWPI Drawing: 	UNIV TEXAS	UNIVERSITY OF TEXAS	2016-05-12	C07K 16/28
		Title: CHIMERIC ANTIGEN RECEPTORS (CAR) TO SELECTIVELY TARGET PROTEIN COMPLEXES DWPI Title: New chimeric antigen receptor polypeptide used in pharmaceutical composition for treating cancer, comprising antigen binding			

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Patent: ● Alive **Publication Date:** 2014-11-13

DWPI Family: ● Alive [View Details](#) **Expiration Date:** - [View factors](#)

INPADOC Family: ● Alive [View Details](#) **Remaining Life:** -

Original Assignee: SHANGHAI YIJIE BIOTECHNOLOGY CO. LTD, CN

Optimized Assignee: SHANGHAI YIJIE BIOTECHNOLOGY CO LTD

Ultimate Parent: SHANGHAI YIJIE BIOTECHNOLOGY CO LTD

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Bibliography

DWPI Title ?
New nucleic acid capable of resisting chimeric antigen receptor protein of glypican-3 encoded and expressed on surface of human T lymphocyte

Original Title ?
NUCLEIC ACID OF CODED GPC3 CHIMERIC ANTIGEN RECEPTOR PROTEIN AND T LYMPHOCYTE EXPRESSING GPC3 CHIMERIC ANTIGEN RECEPTOR PROTEIN

Assignee/Applicant ?
Standardized: SHANGHAI YIJIE BIOTECHNOLOGY CO LTD
Original: SHANGHAI YIJIE BIOTECHNOLOGY CO. LTD, TU, Yan, Rm 301, Building 6, #333 Guiping Rd. Xuhui District, Shanghai 200032, CN

Optimized Assignee/Ultimate Parent ?

Optimized Assignee	Ultimate Parent
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encoding fusion protein comprising antigen binding protein that binds for treating solid tumor e.g. ovarian cancer

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LTD	2015-11-19	C12N 15/62
PROTEIN AND T LYMPHOCYTE FOR EXPRESSION OF CHIMERIC ANTIGEN receptor protein expressed on surface of human T lymphocyte, useful for		
LTD	2016-02-04	C12N 15/62
PROTEIN AND T LYMPHOCYTE FOR EXPRESSION OF CHIMERIC ANTIGEN receptor protein expressed on surface of human T lymphocyte, useful for		
	2016-03-24	C07K 14/725
tracellular spacer comprising at least part of the extracellular domain of ating cancer		
	2016-05-12	C07K 16/28
UNIV TEXAS UNIVERSITY OF TEXAS		
Title: CHIMERIC ANTIGEN RECEPTORS (CAR) TO SELECTIVELY TARGET PROTEIN COMPLEXES		
DWPI Title: New chimeric antigen receptor polypeptide used in pharmaceutical composition for treating cancer, comprising antigen binding		

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Key Summary Data

Patent: ● Alive

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INPADOC Family: ● Alive [View Details](#)

Original Assignee: SHANGHAI YIJIE BIOTECHNOLOGY CO. LTD, CN

Optimized Assignee: SHANGHAI YIJIE BIOTECHNOLOGY CO LTD

Ultimate Parent: SHANGHAI YIJIE BIOTECHNOLOGY CO LTD

Publication Date: 2014-11-13

Expiration Date: - [View factors](#)

Remaining Life: -

FULL VIEW Jump to: Bibliography Abstract Classes/Indexing Legal Status **Family** Claims Description Citations Other Custom Fields

Family

Family ?

[+](#) Expand INPADOC Family (10) **INPADOC Family:** ● Alive

[+](#) Expand DWPI Family (9); Countries/Regions (130) **DWPI Family:** ● Alive

Claims

Claims ?

1. A nucleic acid of a chimeric antigen receptor protein expressed by code on a surface of a T lymphocyte, targeting the chimeric antigen receptor protein of GPC3 comprises a sequence of an extracellular binding domain, film area and a cell area, wherein the said extracellular combine area a C end of epitope specific identification GPC3 of single chain antibody scFv (GPC3).

[+](#) Expand All Claims (10)

Description

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生理盐水组 AA

空载体对照组 BB

GPC3-4 Z组 CC

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	2016-03-24	C07K 14/725
acellular spacer comprising at least part of the extracellular domain of sting cancer		

27	WO2016073629A1	UNIV TEXAS	UNIVERSITY OF TEXAS	2016-05-12	C07K 16/28
DWPI Drawing:		Title: CHIMERIC ANTIGEN RECEPTORS (CAR) TO SELECTIVELY TARGET PROTEIN COMPLEXES			
		DWPI Title: New chimeric antigen receptor polypeptide used in pharmaceutical composition for treating cancer, comprising antigen binding			

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Key Summary Data

Patent: Alive
DWPI Family: Alive
INPADOC Family: Alive
Original Assignee: SHANGHAI YIJIE BIOTECHNOLOGY CO. LTD, CN
Optimized Assignee: SHANGHAI YIJIE BIOTECHNOLOGY CO LTD
Ultimate Parent: SHANGHAI YIJIE BIOTECHNOLOGY CO LTD
Publication Date: 2014-11-13
Expiration Date: View factors
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DWPI Family (9); Countries/Regions (130) DWPI Family: Alive View as Result Set

Table with columns: Publication, DWPI Update, Publication Date, IPC Code, Dead/Alive, Language. Row 1: WO2014180306A1, 201479, 2014-11-13, C12N001509, Alive, Chinese.

Designated States: (National) AE AG AL AM AO AT AU AZ BA BB BG BH BN BR BW BY BZ CA CH CL CN CO CR CU CZ DE DK DM DO DZ EC EE EG ES FI GB GD GE GH GM GT HN HR HU ID IL IN IR IS JP KE KG KN KP KR KZ LA LC LK LR LS LT LU LY MA MD ME MG MK MN MW MX MY MZ NA NG NI NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SK SL SM ST SV SY TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Local Applications: WO2014CN76913A filed 2014-05-06

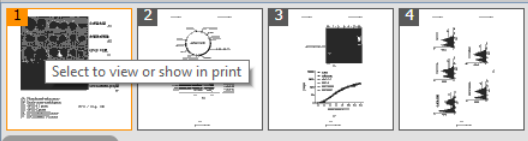
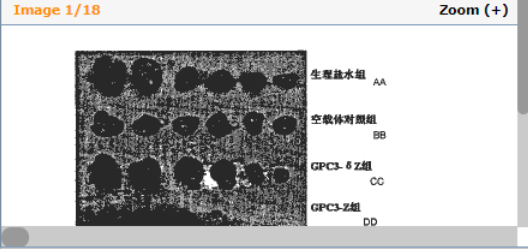
CN104140974A = 201505 2014-11-12 C12N001562 Alive Chinese

Local Applications: CN201310164725A filed 2013-05-08

KR2016003287A = 201615 2016-01-08 C12N001586 Alive English

Local Applications: based on WO2014180306 WO2014CN76913A filed 2014-05-06 KR2015734790A filed 2014-05-06

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27 WO2016073629A1 DWPI Drawing:

UNIV TEXAS UNIVERSITY OF TEXAS 2016-05-12 C07K 16/28 Title: CHIMERIC ANTIGEN RECEPTORS (CAR) TO SELECTIVELY TARGET PROTEIN COMPLEXES DWPI Title: New chimeric antigen receptor polypeptide used in pharmaceutical composition for treating cancer, comprising antigen binding

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Patent: ● Alive

DWPI Family: ● Alive [View Details](#)

INPADOC Family: ● Alive [View Details](#)

Original Assignee: SHANGHAI YIJIE BIOTECHNOLOGY CO. LTD, CN

Optimized Assignee: SHANGHAI YIJIE BIOTECHNOLOGY CO LTD

Ultimate Parent: SHANGHAI YIJIE BIOTECHNOLOGY CO LTD

Publication Date: 2014-11-13

Expiration Date: - [View factors](#)

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Legal Status

INPADOC Legal Status ?

Gazette Date	Code	Description
2016-03-01	WW+	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE US 14889778
2015-12-07	ENP	ENTRY INTO THE NATIONAL PHASE IN: KR 20157034790 A
2015-11-09	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN: DE
2015-11-06	ENP	ENTRY INTO THE NATIONAL PHASE IN: JP 2016512212 A
2014-12-31	121	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION EP 14794936 A1

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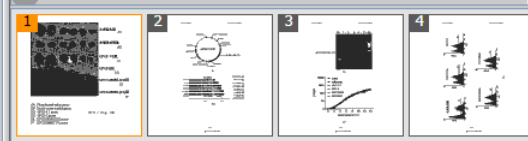
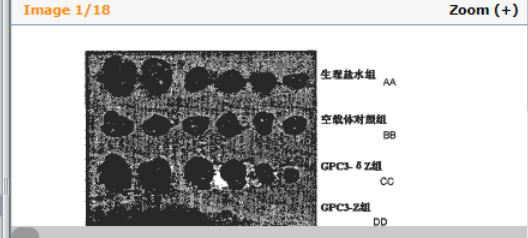
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encoding fusion protein comprising antigen binding protein that binds for treating solid tumor e.g. ovarian cancer

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EFFECTOR CELLS TARGETING MESOTHELIN tumor drugs, or agent for diagnosing tumors which express mesothelin variable region and light chain variable region

NOLOGY2014-11-13 C12N 15/09

DR PROTEIN AND T LYMPHOCYTE EXPRESSING GPC3 CHIMERIC ANTIGEN

receptor protein of glypican-3 encoded and expressed on surface of

LTD 2015-11-19 C12N 15/62

PROTEIN AND T LYMPHOCYTE FOR EXPRESSION OF CHIMERIC ANTIGEN

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LTD 2016-02-04 C12N 15/62

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2016-03-24 C07K 14/725

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2016-05-12 C07K 16/28

UNIV TEXAS UNIVERSITY OF TEXAS

Title: CHIMERIC ANTIGEN RECEPTORS (CAR) TO SELECTIVELY TARGET PROTEIN COMPLEXES

DWPI Title: New chimeric antigen receptor polypeptide used in pharmaceutical composition for treating cancer, comprising antigen binding

WO2014180306A1 Family Legal Status Report - 10 members found

Jump	Publication	Title	Filed	ApplNo
Status	WO2014180306A1	NUCLEIC ACID OF CODED GPC3 CHIMERIC ANTIGEN RECEPTOR PROTEIN AND T LYMPHOCYTE EXPRESSING GPC3 CHIMERIC ANTIGEN RECEPTOR PROTEIN	2014-05-06	WO2014CN76913A
Status	US20160215261A1	Nucleic Acid Of Coded GPC3 Chimeric Antigen Receptor Protein And T Lymphocyte Expressing GPC3 Chimeric Antigen Receptor Protein	2016-03-01	US14889778A
Status	EP2995682A4	NUCLEIC ACID OF CODED GPC3 CHIMERIC ANTIGEN RECEPTOR PROTEIN AND T LYMPHOCYTE EXPRESSING GPC3 CHIMERIC ANTIGEN RECEPTOR PROTEIN	2014-05-06	EP2014794936A
Status	CN107460201A	Nucleic acid for encoding GPC (Glypican)-3 chimeric antigen receptor protein and T-lymphocyte for expressing GPC-3 chimeric antigen receptor protein	2013-05-08	CN201710672717A
Status	CN104140974B	编码GPC-3嵌合抗原受体蛋白的核酸及表达GPC-3嵌合抗原受体蛋白的T淋巴细胞	2013-05-08	CN201310164725A
Status	CN104140974A	Nucleic acid for coding GPC-3 (glypican-3) chimeric antigen receptor protein and T lymphocytes for expression of GPC-3 chimeric antigen receptor protein	2013-05-08	CN201310164725A
Status	KR2016003287A	NUCLEIC ACID OF CODED GPC3 CHIMERIC ANTIGEN RECEPTOR PROTEIN AND T LYMPHOCYTE EXPRESSING GPC3 CHIMERIC ANTIGEN RECEPTOR PROTEIN	2014-05-06	KR20157034790A
Status	KR1857229B1	NUCLEIC ACID OF CODED GPC3 CHIMERIC ANTIGEN RECEPTOR PROTEIN AND T LYMPHOCYTE EXPRESSING GPC3 CHIMERIC ANTIGEN RECEPTOR PROTEIN	2014-05-06	KR20157034790A
Status	JP2016523518A	GPC3 キメラ抗原受容体蛋白質をコードする核酸及びGPC3 キメラ抗原受容体蛋白質を発現するTリンパ球	2014-05-06	JP2016512212A
Status	EP2995682A1	NUCLEIC ACID OF CODED GPC3 CHIMERIC ANTIGEN RECEPTOR PROTEIN AND T LYMPHOCYTE EXPRESSING GPC3 CHIMERIC ANTIGEN RECEPTOR PROTEIN	2014-05-06	EP2014794936A

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WO2014180306A1:	Gazette Date	Code	Description(remarks)	List all possible codes forWO
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	2015-12-07	ENP	ENTRY INTO THE NATIONAL PHASE IN: (KR20157034790)	
	2015-11-09	NENP	NON-ENTRY INTO THE NATIONAL PHASE IN: (DE)	

27 [WO2016073629A1](#)
DWPI Drawing:
 UNIV TEXAS UNIVERSITY OF TEXAS 2016-05-12 C07K 16/28
Title: CHIMERIC ANTIGEN RECEPTORS (CAR) TO SELECTIVELY TARGET PROTEIN COMPLEXES
DWPI Title: New chimeric antigen receptor polypeptide used in pharmaceutical composition for treating cancer, comprising antigen binding

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 extracellular spacer comprising at least part of the extracellular domain of ating cancer

Gazette Date	Code	Description(remarks)	List all possible codes forKR
2018-05-04	GRNT +	WRITTEN DECISION TO GRANT	
2018-04-02	E701 +	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
2017-05-22	E902 -	NOTIFICATION OF REASON FOR REFUSAL	
2015-12-23	A201	REQUEST FOR EXAMINATION	

Gazette Date	Code	Description(remarks)	List all possible codes forKR
2018-05-04	GRNT +	WRITTEN DECISION TO GRANT	
2018-04-02	E701 +	DECISION TO GRANT OR REGISTRATION OF PATENT RIGHT	
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2015-12-23	A201	REQUEST FOR EXAMINATION	

Gazette Date	Code	Description(remarks)	List all possible codes forJP
2018-08-14	A911	TRANSFER OF RECONSIDERATION BY EXAMINER BEFORE APPEAL (ZENCHI) (JAPANESE INTERMEDIATE CODE: A911) (2018-08-13)	
2018-06-26	A521	WRITTEN AMENDMENT (JAPANESE INTERMEDIATE CODE: A523) (2018-06-26)	
2018-02-27	A02 -	DECISION OF REFUSAL (JAPANESE INTERMEDIATE CODE: A02) (2018-02-27)	
2017-10-23	A521	WRITTEN AMENDMENT (JAPANESE INTERMEDIATE CODE: A523) (2017-10-23)	
2017-08-22	A601	WRITTEN REQUEST FOR EXTENSION OF TIME (JAPANESE INTERMEDIATE CODE: A601) (2017-08-22)	
2017-05-23	A131 -	NOTIFICATION OF REASONS FOR REFUSAL (JAPANESE INTERMEDIATE CODE: A131) (2017-05-23)	
2017-01-12	A521	WRITTEN AMENDMENT (JAPANESE INTERMEDIATE CODE: A523) (2017-01-12)	
2016-10-18	A131 -	NOTIFICATION OF REASONS FOR REFUSAL (JAPANESE INTERMEDIATE CODE: A131) (2016-10-18)	

Gazette Date	Code	Description(remarks)	List all possible codes forEP
2017-12-06	17Q +	FIRST EXAMINATION REPORT (2017-11-06)	
2016-11-23	RIC1	CLASSIFICATION (CORRECTION)	
2016-11-23	A4 +	DESPATCH OF SUPPLEMENTARY SEARCH REPORT (2016-10-21)	
2016-11-23	RIC1	CLASSIFICATION (CORRECTION)	
2016-11-23	RIC1	CLASSIFICATION (CORRECTION)	
2016-11-23	RIC1	CLASSIFICATION (CORRECTION)	
2016-11-23	RIC1	CLASSIFICATION (CORRECTION)	

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