

## Kite Pharma Inc

### CORTELLIS COMPANY DETAILED PIPELINE REPORT

A comprehensive coverage of the the company's drug pipeline portfolio including detailed product records.

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## GLOSSARY

### Number of Drugs in Active Development

Number of drugs associated with the company or subsidiary that are currently in active development, i.e. the development status for the drug(s) is one of the following: Discovery, Clinical, Phase I, Phase II, Phase III, Pre-registration, Registered, Launched, or Suspended.

### Number of Inactive Drugs

Number of drugs associated with the company or subsidiary that are currently classified as inactive, i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.

### Number of Patents as Owner

Number of patents associated with the company where the company is listed as owner; i.e. the relationship type (or way the patent refers to the company) is: Patent Assignee/Owner, Patent owner (not assignee), Licensee for development and marketing, Licensee – marketing only (Distributor), Patent assignee of family member, Inferred assignee.

### Number of Patents as Third Party

Number of patents associated with the company where the company is listed as third party; i.e. the relationship type (or way the patent refers to the company) is: Patent assignee (not owner), Ex-Licensee for development and marketing, Ex-Licensee marketing only (Distributor), Customer of technology, Ex-Customer of technology, Patent opponent or infringer, Affiliate organization of inventor, Owner of underlying technology.

### Patents summary table

This table represents a summary of the core patent coverage for this company covering Therapeutic EP, US and WO patents since 1990 only.

### Number of Deals

A count of deals where the company or one of its subsidiaries is the primary company.

### Key Indications

Displays top ten key indications for the company and its subsidiaries based on frequency (indications occurring with high and identical frequency are always included, and this may result in more than ten Key Indications being listed). Includes both indications associated with patents where the company is patent owner and indications associated with drugs in active development. A drug is classified as 'active' if it features on a row (or rows) in the current development status table where the status is one of the following: Discovery, Clinical, Phase I, Phase II, Phase III, Pre-registration, Registered, Launched, or Suspended.

### Key Target-based Actions

Displays top ten key target-based actions for the company and its subsidiaries based on frequency (actions occurring with high and identical frequency are always included, and this may result in more than ten Key Target-based Actions being listed). Includes both target-based actions associated with patents where the company patent owner and target-based actions associated with drugs in active development. A drug is classified as 'active' if it features on a row (or rows) in the current development status table where the status is one of the following: Discovery, Clinical, Phase I, Phase II, Phase III, Pre-registration, Registered, Launched, or Suspended. A target-based action is one that is associated with a target.

### Key Technologies

Displays top ten key technologies for the company and its subsidiaries based on frequency (technologies occurring with high and identical frequency are always included, and this may result in more than ten Key Technologies being listed). Includes both key technologies associated with patents where the company relationship is patent owner and key technologies associated with drugs in active development. A drug is classified as 'active' if it features on a row (or rows) in the current development status table where the status is one of the following: Discovery, Clinical, Phase I, Phase II, Phase III, Pre-registration, Registered, Launched, or Suspended.

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# Kite Pharma Inc

## COMPANY OVERVIEW

Company Name	Kite Pharma Inc
Parent Company Name	Kite Pharma Inc
Website	<a href="http://www.kitepharma.com/">http://www.kitepharma.com/</a>
Country	US
Number of Drugs in Active Development	6
Number of Inactive Drugs	0
Number of Patents as Owner	10
Number of Patents as Third Party	0
Number of Deals	5
Key Indications	Cancer, Glioblastoma, Hepatocellular carcinoma, Metastasis, Non-Hodgkin lymphoma, Renal cell carcinoma, Melanoma, Breast tumor, Ovary tumor, Colorectal tumor, Mesothelioma, Non-small-cell lung cancer, Pancreas tumor, Prostate tumor, Sarcoma, Viral infection
Key Target-based Actions	Alpha-fetoprotein inhibitor, B-lymphocyte antigen CD19 inhibitor, Cancer testis antigen NY-ESO-1 modulator, Melanocyte protein Pmel 17 modulator, Melanoma associated antigen 1 modulator, Mesothelin modulator, T-cell surface glycoprotein CD8 stimulator, Arginase modulator, CD27 agonist, CD27 modulator, CD4 agonist, CD45RO agonist, CD62L agonist, CD66e agonist, CD80 modulator, CTAG1 gene modulator, Cyclin-dependent kinase-4 stimulator, Epidermal growth factor agonist, FOXO3 gene modulator, MART-1 melanoma antigen modulator, MART-1 melanoma antigen stimulator, Melanoma associated antigen stimulator, Mesothelin stimulator, Mucin 1 stimulator, Myelin basic protein stimulator, Myelin oligodendrocyte glycoprotein stimulator
Key Technologies	Biological therapeutic, Antigen, Parenteral formulation unspecified, Systemic formulation unspecified, Cell therapy, Cell culture technique, Polynucleotide sequence, T-lymphocyte, Tumor antigen, Antibody, Antibody fragment, Antigen presentation system, Autoantigen, Drug screening, Immunodetection, Isolation technology, Oligonucleotide, PCR based technology, Peptide, Vector expression, Yeast recombinant

## COMPANY PROFILE

### SUMMARY

Kite Pharma is a biotechnology company focused on the development of immunotherapeutic products to treat cancers.

### FINANCIAL

In May 2014, Kite Pharma filed a registration statement on form S-1 with the US SEC for a proposed IPO to offer their common stock shares. In June 2014, the company initiated pricing of its initial public offering of 7.5 million shares of its common stock at a price to the public of \$17 per share. The shares began trading on the NASDAQ Global Select market, under the symbol "KITE". At that time, the underwriters were granted a 30-day option to buy up to an additional 1,125,000 shares of common stock; later that month, the underwriters completely exercised their option to purchase the additional shares of the company's common stock. At that time, the total number of 8,625,000 shares was being sold in the offering and was expected to be closed on June 25, 2014.

In April 2014, the company completed a \$50 million mezzanine private financing of convertible notes.

In May 2013, Kite closed a \$20 million private placement of shares and converted \$15 million in outstanding promissory notes into shares as a part of its series A preferred stock.

In March 2011, the company raised \$15 million in from a private placement financing round.

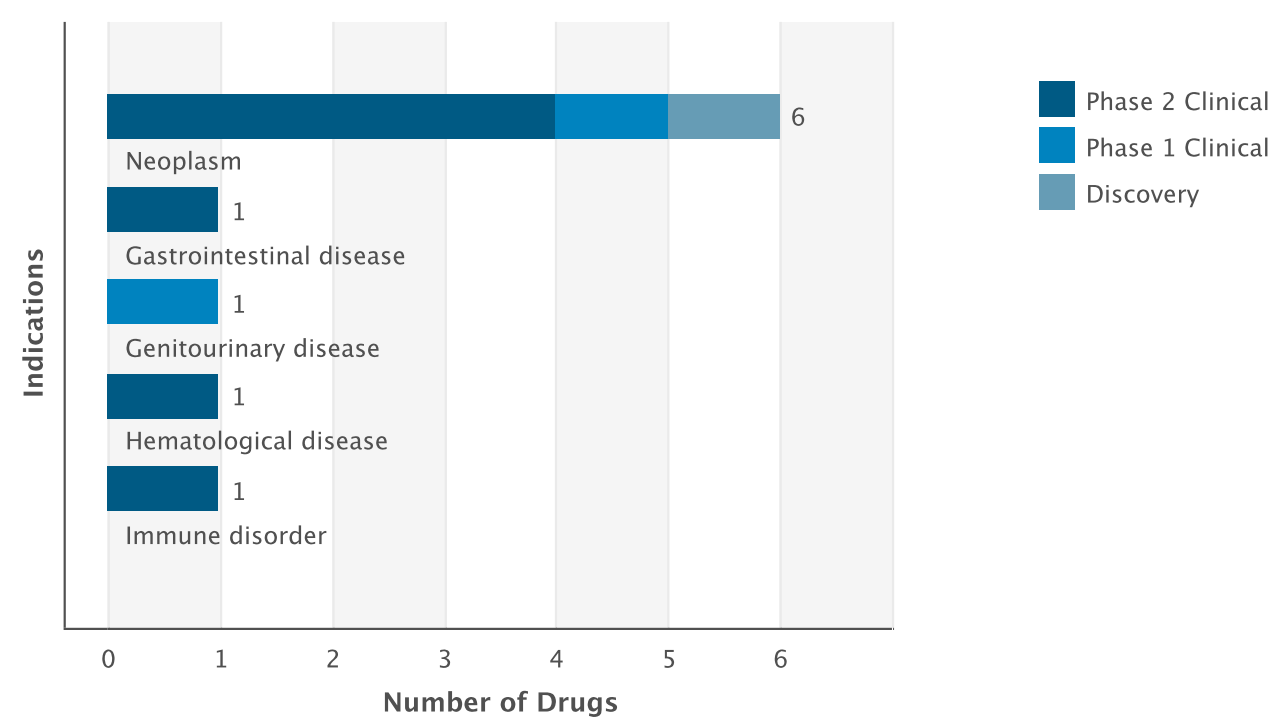
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# PRODUCT PORTFOLIO SUMMARY

## DRUGS

### Drugs by Indication

Active Drugs by Indication Chart



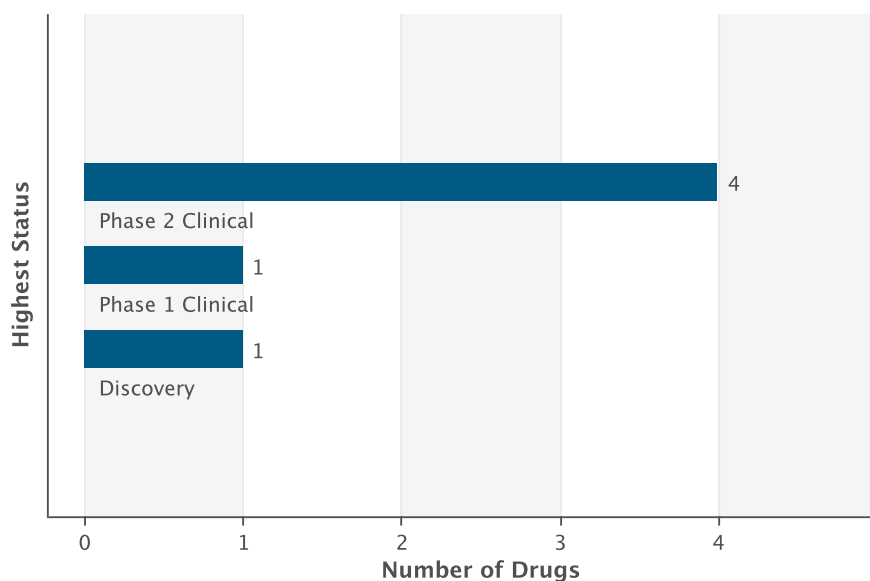
Drugs by Indication Table

Indication	Active	Inactive	Total
Neoplasm	6	0	6
Hematological disease	1	0	1
Genitourinary disease	1	0	1
Gastrointestinal disease	1	0	1
Immune disorder	1	0	1

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## Drugs by Highest Status

Active Drugs by Highest Status Chart



Drugs by Highest Status Table

Development Status	Number of Drugs
Phase 2 Clinical	4
Phase 1 Clinical	1
Discovery	1

## CLINICAL TRIALS

### Phase Definitions

#### Phase 3 Clinical

Includes Phase 3, Phase 3b, Phase 3a, Phase 2/3 (where enrolment count is 300 or over)

#### Phase 2 Clinical

Includes Phase 2, Phase 2a, Phase 2b, Phase 1/2 (where enrolment count is 100 or over), Phase 2/3 (where enrolment count is under 300 or not specified)

#### Phase 1 Clinical

Includes Phase 1, Phase 1a, Phase 1, Phase 1/2 (where enrolment count is under 100 or not specified), Phase 0

## PATENTS \*

Indication	As Owner	As Third Party	Total
Endocrine disease	3	0	3
Gastrointestinal disease	2	0	2

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Genitourinary disease	4	0	4
Andrology	2	0	2
Immune disorder	1	0	1
Neoplasm	10	0	10
Respiratory disease	4	0	4
Infectious disease	4	0	4
Gynecology and obstetrics	3	0	3
Dermatological disease	7	0	7

\* This table represents a summary of the core patent coverage for this company covering Therapeutic EP, US and WO patents since 1990 only.

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## PRODUCT PORTFOLIO DRUG PIPELINE DETAIL

**PLEASE NOTE:** Highest status refers to highest development of that drug for one of the active companies

### anti-NY-ESO-1 T-cell therapy (cancer), Kite Pharma

#### anti-NY-ESO-1 T-cell therapy (cancer), Kite Pharma SNAPSHOT

<b>Drug Name</b>	anti-NY-ESO-1 T-cell therapy (cancer), Kite Pharma
<b>Key Synonyms</b>	
<b>Originator Company</b>	National Institutes of Health
<b>Active Companies</b>	Kite Pharma Inc
<b>Inactive Companies</b>	National Institutes of Health
<b>Highest Status</b>	Phase 2 Clinical
<b>Active Indications</b>	Metastasis
<b>Target-based Actions</b>	Cancer testis antigen NY-ESO-1 modulator
<b>Other Actions</b>	Genetically engineered autologous cell therapy;Anticancer
<b>Technologies</b>	T-lymphocyte;Cell therapy;Systemic formulation unspecified;Biological therapeutic
<b>Last Change Date</b>	01-Jul-2014

#### anti-NY-ESO-1 T-cell therapy (cancer), Kite Pharma DEVELOPMENT PROFILE

##### SUMMARY

Kite Pharma, under license from the National Institutes of Health, is developing a murine-based engineered autologous T-cell therapy targeting the cancer/testis antigen NY-ESO-1 (based on the NIH's autologous lymphocytes cotransduced with retroviruses encoding anti-NY-ESO-1 T-cell receptors and IL-12), incorporating Kite Pharma's T Cell Receptor (TCR) technology, for the potential treatment of cancers expressing NY-ESO-1,. By May 2014, a phase II trial in metastatic cancer had begun.

#### anti-NY-ESO-1 T-cell therapy (cancer), Kite Pharma DEVELOPMENT STATUS

##### CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Kite Pharma Inc	Metastasis	US	Phase 2 Clinical	06-Jun-2014
National Institutes of Health	Metastasis	US	Discontinued	06-Jun-2014

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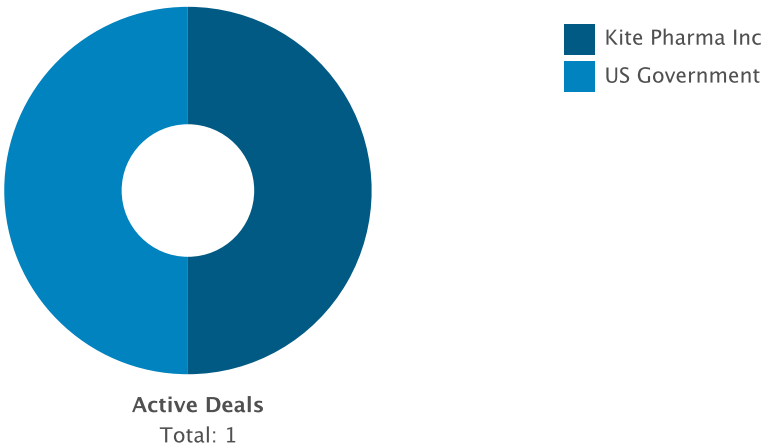
anti-NY-ESO-1 T-cell therapy (cancer), Kite Pharma DRUG NAMES

Names	Type
murine anti-NY-ESO-1 TCR-based T-cell therapy (cancer), Kite Pharma	
anti-NY-ESO-1 T-cell therapy (cancer), Kite Pharma	

anti-NY-ESO-1 T-cell therapy (cancer), Kite Pharma DEALS AND PATENTS

DEALS

Deals by Parent Company Chart

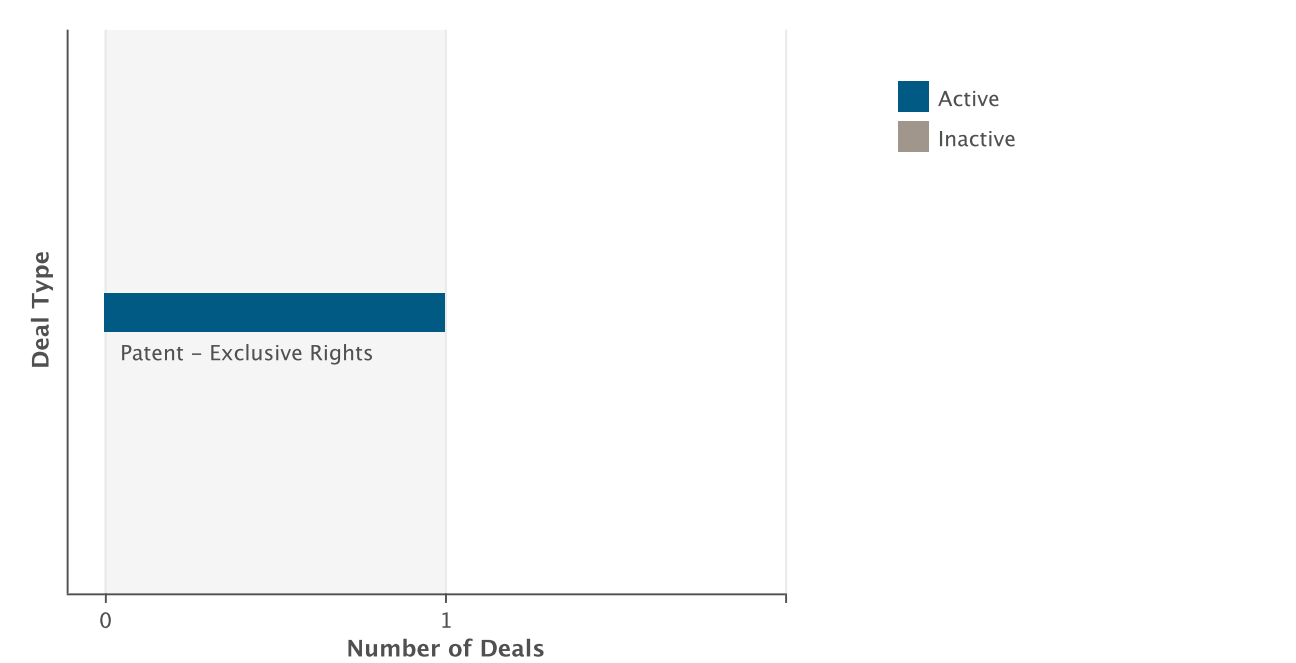


Deals by Parent Company Table

Company Name	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Kite Pharma Inc	0	0	1	0	1
US Government	1	0	0	0	1

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Deals by Type Chart



Deals by Type Table

Deal Type	Active	Inactive	Total
Patent - Exclusive Rights	1	0	1

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## KTE-C19

### KTE-C19 SNAPSHOT

Drug Name	KTE-C19
Key Synonyms	
Originator Company	Kite Pharma Inc
Active Companies	Kite Pharma Inc
Inactive Companies	
Highest Status	Phase 2 Clinical
Active Indications	Non-Hodgkin lymphoma;Cancer
Target-based Actions	B-lymphocyte antigen CD19 inhibitor
Other Actions	Genetically engineered autologous cell therapy;Anticancer;Immunomodulator
Technologies	Biological therapeutic;Parenteral formulation unspecified
Last Change Date	30-May-2014

### KTE-C19 DEVELOPMENT PROFILE

#### SUMMARY

Kite Pharma is developing KTE-C19, a chimeric antigen receptor engineered peripheral blood autologous T-cell therapy (eACT) that targets CD19, for the potential treatment of multiple hematological cancers, including non-Hodgkin's lymphoma and solid tumor types,. In December 2013, phase I/IIa non-Hodgkin's lymphoma data were presented.

### KTE-C19 DEVELOPMENT STATUS

#### CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Kite Pharma Inc	Non-Hodgkin lymphoma	US	Phase 2 Clinical	07-Dec-2013
Kite Pharma Inc	Cancer	US	Discovery	16-Oct-2012

### KTE-C19 DRUG NAMES

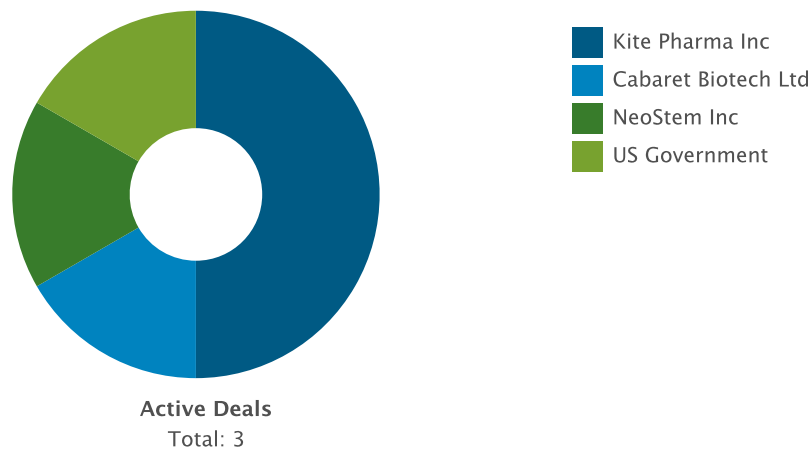
Names	Type
CD19 targeted chimeric antigen receptor engineered T cell therapy (cancer), Kite Pharma	
KTE-C19	
eACT (cancer), Kite Pharma	

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KTE-C19 DEALS AND PATENTS

DEALS

Deals by Parent Company Chart



Deals by Parent Company Table

Company Name	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Kite Pharma Inc	1	0	2	0	3
NeoStem Inc	1	0	0	0	1
US Government	0	0	1	0	1
Cabaret Biotech Ltd	1	0	0	0	1

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Deals by Type Chart



Deals by Type Table

Deal Type	Active	Inactive	Total
Drug - CRADA	1	0	1
Patent - Exclusive Rights	1	0	1
Drug - Development Services	1	0	1

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## alpha-fetoprotein cancer vaccine (hepatocellular carcinoma), Kite

### alpha-fetoprotein cancer vaccine (hepatocellular carcinoma), Kite SNAPSHOT

Drug Name	alpha-fetoprotein cancer vaccine (hepatocellular carcinoma), Kite
Key Synonyms	
Originator Company	Kite Pharma Inc
Active Companies	Kite Pharma Inc
Inactive Companies	
Highest Status	Phase 2 Clinical
Active Indications	Hepatocellular carcinoma
Target-based Actions	Alpha-fetoprotein inhibitor
Other Actions	Recombinant viral vector vaccine;Anticancer;Immunostimulant;Therapeutic vaccine
Technologies	Systemic formulation unspecified;Antigen;Biological therapeutic
Last Change Date	12-Dec-2013

### alpha-fetoprotein cancer vaccine (hepatocellular carcinoma), Kite DEVELOPMENT PROFILE

#### SUMMARY

Kite Pharma is developing a vaccine consisting of alpha-fetoprotein epitopes to stimulate a T-cell response for the potential treatment of hepatocellular carcinoma (HCC) . By September 2010, a phase I/II trial had begun in patients with advanced HCC. In May 2012, development was ongoing ; in December 2013, this was still the case.

### alpha-fetoprotein cancer vaccine (hepatocellular carcinoma), Kite DEVELOPMENT STATUS

#### CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Kite Pharma Inc	Hepatocellular carcinoma	US	Phase 2 Clinical	16-Sep-2010

### alpha-fetoprotein cancer vaccine (hepatocellular carcinoma), Kite DRUG NAMES

Names	Type
alpha-fetoprotein cancer vaccine (hepatocellular carcinoma), Kite	

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## EGFRvIII chimeric antigen receptor program, Kite Pharma

### EGFRvIII chimeric antigen receptor program, Kite Pharma SNAPSHOT

Drug Name	EGFRvIII chimeric antigen receptor program, Kite Pharma
Key Synonyms	
Originator Company	National Cancer Institute
Active Companies	Kite Pharma Inc
Inactive Companies	National Cancer Institute
Highest Status	Phase 2 Clinical
Active Indications	Glioblastoma
Target-based Actions	Epidermal growth factor receptor modulator
Other Actions	Genetically engineered autologous cell therapy;Anticancer
Technologies	Receptor chimeric;Cell therapy;Biological therapeutic;Parenteral formulation unspecified
Last Change Date	04-Jun-2014

### EGFRvIII chimeric antigen receptor program, Kite Pharma DEVELOPMENT PROFILE

#### SUMMARY

Kite Pharma, under license from NIH affiliate National Cancer Institute, is developing autologous peripheral blood lymphocytes (PBLs), transduced with T-cells expressing the anti-EGFRvIII chimeric antigen receptor, for the potential treatment of glioblastoma. In October 2011, the NCI started a phase I/II trial. In September 2013, the trial was ongoing. In May 2014, work was ongoing .

### EGFRvIII chimeric antigen receptor program, Kite Pharma DEVELOPMENT STATUS

#### CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Kite Pharma Inc	Glioblastoma	US	Phase 2 Clinical	11-Apr-2013
National Cancer Institute	Glioblastoma	US	Discontinued	11-Apr-2013

### EGFRvIII chimeric antigen receptor program, Kite Pharma DRUG NAMES

Names	Type
anti-EGFRvIII PBLs (glioblastoma), National Cancer Institute	
EGFRvIII chimeric antigen receptor program, Kite Pharma	
autologous anti-EGFRvIII T-cell receptor peripheral blood lymphocytes (glioblastoma), National Cancer Institute	

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## EGFRvIII chimeric antigen receptor program, Kite Pharma CLINICAL TRIALS

### Trials by Phase and Condition Studied

Phase 4 Clinical		Phase 3 Clinical		Phase 2 Clinical		Phase 1 Clinical		Phase Unspecified		Total	
On-going	All	On-going	All	On-going	All	On-going	All	On-going	All	On-going	All
Glioma											
0	0	0	0	1	1	0	0	0	0	1	1

### Total Trials by Phase and Status

Phase 4 Clinical		Phase 3 Clinical		Phase 2 Clinical		Phase 1 Clinical		Phase Unspecified		Total	
On-going	All	On-going	All	On-going	All	On-going	All	On-going	All	On-going	All
Total by Phase and Status											
0	0	0	0	1	1	0	0	0	0	1	1

### Phase Definitions

#### Phase 3 Clinical

Includes Phase 3, Phase 3b, Phase 3a, Phase 2/3 (where enrolment count is 300 or over)

#### Phase 2 Clinical

Includes Phase 2, Phase 2a, Phase 2b, Phase 1/2 (where enrolment count is 100 or over), Phase 2/3 (where enrolment count is under 300 or not specified)

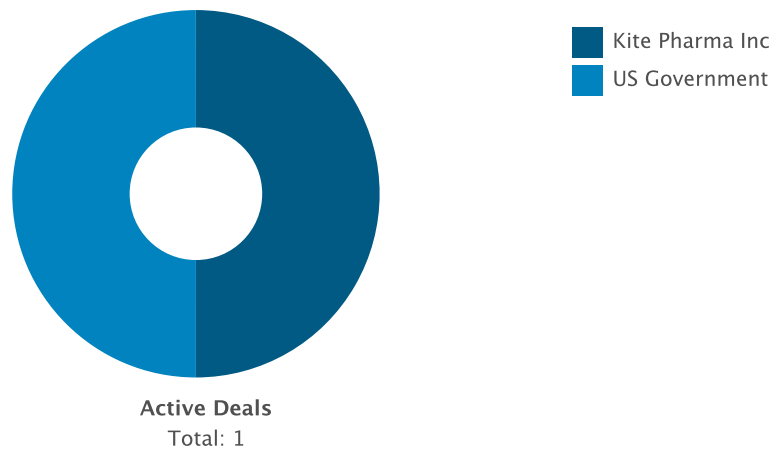
#### Phase 1 Clinical

Includes Phase 1, Phase 1a, Phase 1, Phase 1/2 (where enrolment count is under 100 or not specified), Phase 0

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DEALS

Deals by Parent Company Chart



Deals by Parent Company Table

Company Name	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
US Government	1	0	0	0	1
Kite Pharma Inc	0	0	1	0	1

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Deals by Type Chart



Deals by Type Table

Deal Type	Active	Inactive	Total
Patent - Exclusive Rights	1	0	1

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## DC-Ad-GMCAIX

### DC-Ad-GMCAIX SNAPSHOT

Drug Name	DC-Ad-GMCAIX
Key Synonyms	
Originator Company	University of California Los Angeles
Active Companies	Kite Pharma Inc
Inactive Companies	University of California Los Angeles
Highest Status	Phase 1 Clinical
Active Indications	Renal cell carcinoma
Target-based Actions	Carbonic anhydrase-IX modulator
Other Actions	Therapeutic vaccine;Anticancer;Protein subunit vaccine
Technologies	Tumor antigen therapeutic;Antigen;Biological therapeutic;Protein fusion;Intradermal formulation
Last Change Date	18-Jun-2014

### DC-Ad-GMCAIX DEVELOPMENT PROFILE

#### SUMMARY

Kite Pharma under license from the University of California, Los Angeles, is developing GM-CSF-G250 (DC-Ad-GMCAIX), a GM-CSF vaccine which consists of dendritic cells adenovirally transduced with tumor antigen, GM-CSF carbonic anhydrase IX (G250; CIAX) fusion protein for the potential intradermal treatment of renal cell carcinoma (RCC),,. In April 2013, a phase I trial was initiated.

### DC-Ad-GMCAIX DEVELOPMENT STATUS

#### CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Kite Pharma Inc	Renal cell carcinoma	US	Phase 1 Clinical	04-Apr-2013
University of California Los Angeles	Renal cell carcinoma	US	Discontinued	17-Sep-2010

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## DC-Ad-GMCAIX DRUG NAMES

Names	Type
GM-CSF-G250 vaccine, UCLA	
DC-Ad-GMCAIX	
GM-CAIX	
GM-CSF/cancer antigen chimeric protein (renal cancer), Kite	

## DC-Ad-GMCAIX CLINICAL TRIALS

### Trials by Phase and Condition Studied

Phase 4 Clinical		Phase 3 Clinical		Phase 2 Clinical		Phase 1 Clinical		Phase Unspecified		Total	
On-going	All	On-going	All	On-going	All	On-going	All	On-going	All	On-going	All
Metastatic renal cancer											
0	0	0	0	0	0	1	1	0	0	1	1

### Total Trials by Phase and Status

Phase 4 Clinical		Phase 3 Clinical		Phase 2 Clinical		Phase 1 Clinical		Phase Unspecified		Total	
On-going	All	On-going	All	On-going	All	On-going	All	On-going	All	On-going	All
Total by Phase and Status											
0	0	0	0	0	0	1	1	0	0	1	1

### Phase Definitions

#### Phase 3 Clinical

Includes Phase 3, Phase 3b, Phase 3a, Phase 2/3 (where enrolment count is 300 or over)

#### Phase 2 Clinical

Includes Phase 2, Phase 2a, Phase 2b, Phase 1/2 (where enrolment count is 100 or over), Phase 2/3 (where enrolment count is under 300 or not specified)

#### Phase 1 Clinical

Includes Phase 1, Phase 1a, Phase 1, Phase 1/2 (where enrolment count is under 100 or not specified), Phase 0

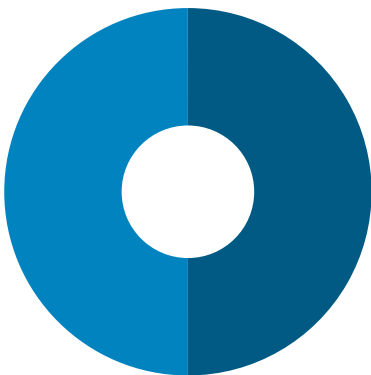
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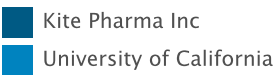
DC-Ad-GMCAIX DEALS AND PATENTS

DEALS

Deals by Parent Company Chart



Active Deals  
Total: 1

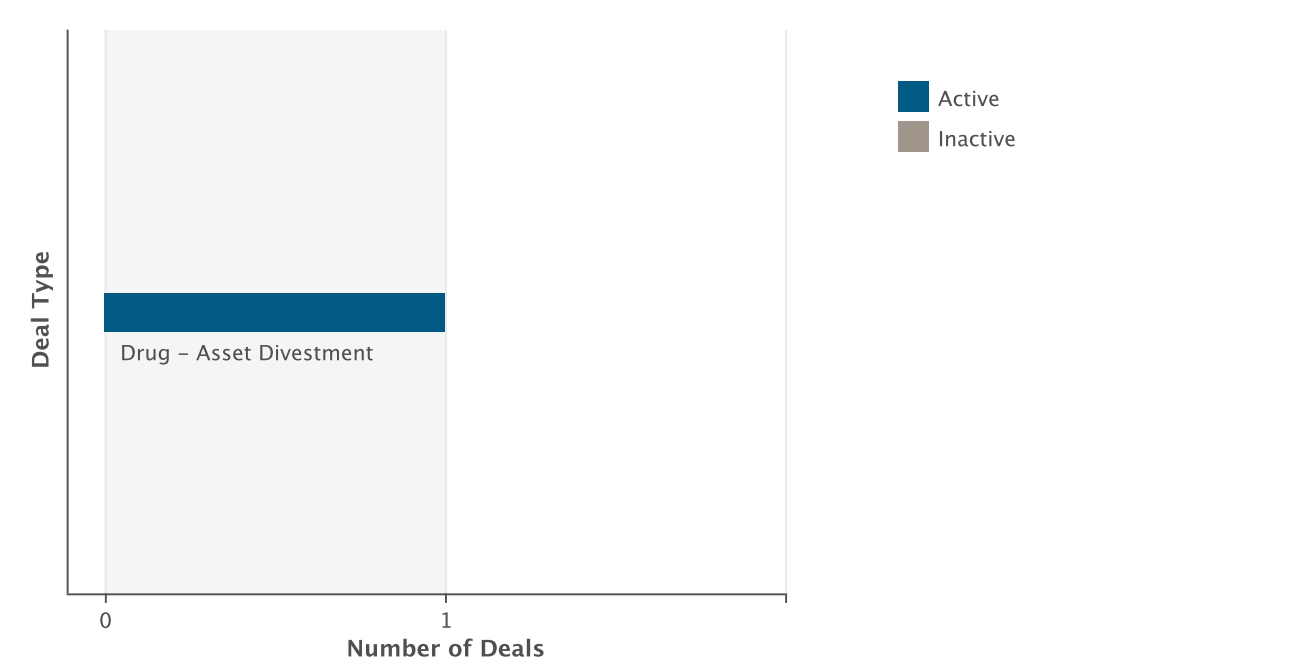


Deals by Parent Company Table

Company Name	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
University of California	1	0	0	0	1
Kite Pharma Inc	0	0	1	0	1

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Deals by Type Chart



Deals by Type Table

Deal Type	Active	Inactive	Total
Drug - Asset Divestment	1	0	1

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## anti-SSX2 T-cell therapy (cancer), Kite Pharma

### anti-SSX2 T-cell therapy (cancer), Kite Pharma SNAPSHOT

Drug Name	anti-SSX2 T-cell therapy (cancer), Kite Pharma
Key Synonyms	
Originator Company	National Institutes of Health
Active Companies	Kite Pharma Inc
Inactive Companies	National Institutes of Health
Highest Status	Discovery
Active Indications	Cancer
Target-based Actions	Synovial sarcoma X breakpoint protein 2 inhibitor
Other Actions	Genetically engineered autologous cell therapy;Anticancer
Technologies	T-lymphocyte;Cell therapy;Biological therapeutic
Last Change Date	01-Jul-2014

### anti-SSX2 T-cell therapy (cancer), Kite Pharma DEVELOPMENT PROFILE

#### SUMMARY

Kite Pharma, under license from the National Institutes of Health, is investigating an engineered autologous T-cell therapy targeting the cancer/testis antigen SSX2 (synovial sarcoma X breakpoint protein 2), incorporating Kite Pharma's T Cell Receptor (TCR) technology, for the potential treatment of tumors including head and neck cancer, hepatocellular carcinoma, melanoma, prostate cancer and sarcoma.

### anti-SSX2 T-cell therapy (cancer), Kite Pharma DEVELOPMENT STATUS

#### CURRENT DEVELOPMENT STATUS

Company	Indication	Country	Development Status	Date
Kite Pharma Inc	Cancer	US	Discovery	11-Apr-2013
National Institutes of Health	Cancer	US	Discontinued	11-Apr-2013

### anti-SSX2 T-cell therapy (cancer), Kite Pharma DRUG NAMES

Names	Type
anti-SSX2 TCR-based T-cell therapy (cancer), Kite Pharma	
anti-SSX2 T-cell therapy (cancer), Kite Pharma	

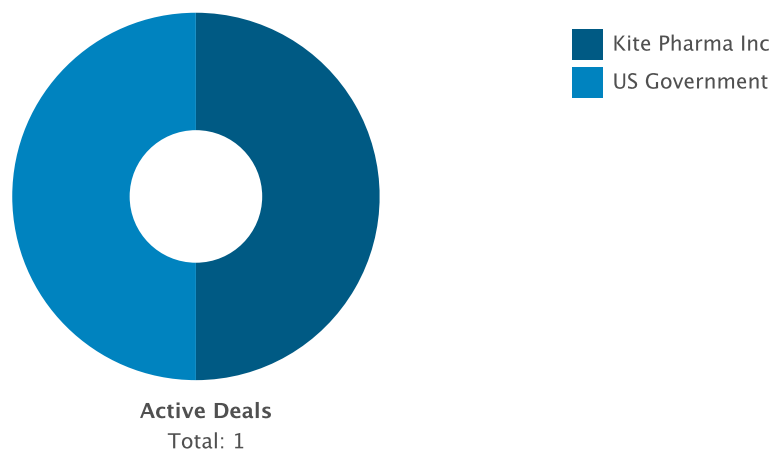
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DEALS

Deals by Parent Company Chart



Deals by Parent Company Table

Company Name	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Kite Pharma Inc	0	0	1	0	1
US Government	1	0	0	0	1

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Deals by Type Chart



Deals by Type Table

Deal Type	Active	Inactive	Total
Patent - Exclusive Rights	1	0	1

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