

Cerulean Pharma Inc

COMPANY AND PIPELINE OVERVIEW REPORT

A comprehensive coverage of the company and a summary of the drug pipeline portfolio.

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ABOUT COMPANY AND PIPELINE OVERVIEW REPORT

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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i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.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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PLEASE NOTE: the financials section where present in the report includes: Share Information, Stock Performance chart (including the consensus recommendation), and Major Shareholders. Financial Performance presents graphical and tabular data on Worldwide Sales, Operating Income and Net Income over time, together with a Quarterly earnings update. Balance Sheet lists Assets, Liabilities and Stockholders Equity, and Forecasts includes: EPS Forecast and Other Forecasts. The data reported in all sections (except share information and major stock holders) are correct as of the publication date of the report (and not the download date). For share information and major stock holders the data is correct for the date shown with these sections

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Cerulean Pharma Inc

COMPANY OVERVIEW

Company Name	Cerulean Pharma Inc
Parent Company Name	Cerulean Pharma Inc
Website	http://ceruleanrx.com/
Country	US
Number of Drugs in Active Development	4
Number of Inactive Drugs	1
Number of Patents as Owner	26
Number of Patents as Third Party	3
Number of Deals	2
Key Indications	Cancer,Breast tumor,Non-small-cell lung cancer,Ovary tumor,Stomach tumor,Renal tumor,Cardiovascular disease,Advanced solid tumor,Rectal tumor,Small-cell lung cancer
Key Target-based Actions	Topoisomerase I inhibitor,Hypoxia inducible factor-1 alpha inhibitor,Proteasome inhibitor,Topoisomerase II inhibitor,DHFR inhibitor,DNA polymerase inhibitor,Hemagglutinin inhibitor,Hemagglutinin modulator,JAK tyrosine kinase inhibitor,PLK1 gene inhibitor,Thymidylate synthase inhibitor,Transferase inhibitor,VEGF receptor antagonist
Key Technologies	Nanoparticle formulation,Small molecule therapeutic,PEGylated formulation,Intravenous formulation,Nanoparticle formulation injectable,Biological therapeutic,Infusion,Oligonucleotide,Formulation

COMPANY PROFILE

SUMMARY

Cerulean Pharma (formerly Tempo Pharmaceuticals Inc) is a biopharmaceutical company specializing in the development of nanoparticle-based therapeutics for oncology, autoimmune and inflammatory diseases, based on its Nanocell technology that was exclusively licensed from the Massachusetts Institute of Technology. In October 2008, the company changed its name to Cerulean Pharma.

FINANCIAL

In March 2015, the company initiated an underwritten public offering of approximately \$50 million of shares of its common stock. The company intended to grant the underwriters a 30-day option to buy up to an additional 15% of the shares of common stock sold in the offering.

In January 2015, the company entered into a loan and security agreement with Hercules Technology Growth Capital for a term loan of up to \$26.0 million and completed a private placement for \$1.0 million of Cerulean common stock with Hercules. Cerulean issued Hercules a warrant to purchase 171,901 shares of Cerulean common stock at an exercise price of \$6.05 per share. At that time, Hercules purchased 135,501 shares of unregistered Cerulean common stock at \$7.38 per share for an aggregate purchase price of \$1.0 million.

In April 2014, Cerulean priced its IPO of 8,500,000 shares of its common stock US \$7.00 per share. Underwriters were granted a 30-day option to purchase an additional 1,275,000 shares. Stock to be listed on the NASDAQ Global Market under the ticker symbol 'CERU'. At that time, the offering was expected to close on April 15, 2014. Later that month, the offering was closed. In May 2014, underwriters for the IPO exercised their over-allotment option and purchased an additional 1,069,715 shares, bringing total number of shares sold to 9,569,715 shares and total gross proceeds to \$67 million.

In December 2011, Cerulean raised \$15 million from a series D financing.

In November 2010, Cerulean raised \$24 million from a series C financing.

In July 2009, Cerulean raised \$10 million from a series B-1 financing.

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In January 2008, Tempo raised \$8.1 million from a series B financing.

In May 2007, Tempo raised \$12.1 million from a series A financing round.

In December 2006, Tempo raised \$2 million from a seed round.

COMPANY FINANCIALS

SHARE INFORMATION

Close Price (USD)	7.25
Change (USD)	-0.80 (-9.94%)
Previous Close Price (USD)	8.05
Volume	179,690
52-Week High (USD)	10.87
52-Week Low (USD)	3.35
Date	02-Apr-2015
Exchange	NASDAQ(COMPOSITE)
Current Number of Shares Outstanding	20,375,987
Current Market Capitalization	198,258,354
EPS (Date Reported)	-1.60442

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STOCK PERFORMANCE



MAJOR SHAREHOLDERS

Shareholder	Type	Country	Shares held	% of shares held	Change in holding	% changes in shares held	Date
Polaris Venture Partners	Venture Capital	United States	4,694,538	23.04	-30,432	-0.01	28-Feb-2015
Venrock	Venture Capital	United States	3,015,017	14.8	0	0	28-Feb-2015
Eli Lilly and Company	Corporation	United States	2,356,227	11.56	0	0	28-Feb-2015
Longview Asset Management, L.L.C.	Investment Advisor	United States	2,259,244	11.09	0	0	28-Feb-2015
Fidelity Select Biotechnology Portfolio	Mutual Fund	United States	1,901,000	9.33	-400	-0	28-Feb-2015
Fidelity Advisor Biotechnology Fund	Mutual Fund	United States	529,900	2.6	-100	-0	28-Feb-2015
Principal SmallCap Blend Fund	Mutual Fund	United States	100,100	0.49	1,800	0.02	28-Feb-2015
Sasisekharan (Ram)	Individual Investor	United States	82,715	0.41	0	0	28-Feb-2015
Crane (Alan L)	Individual Investor	United States	77,203	0.38	2	0	28-Feb-2015

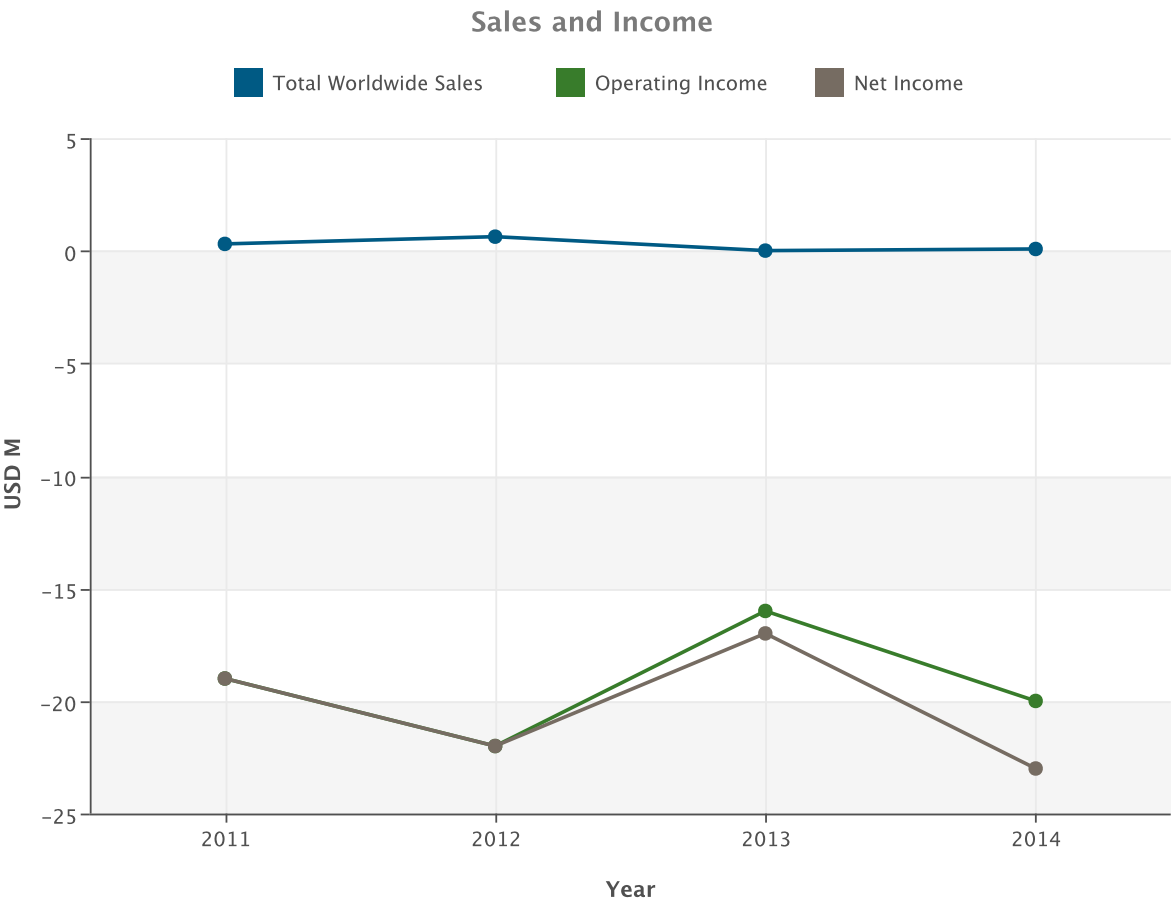
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Rastetter (William H)	Individual Investor	United States	60,307	0.3	60,307	1	28-Feb-2015
Vanguard Total Stock Market Index Fund	Mutual Fund	United States	32,066	0.16	3,500	0.12	28-Feb-2015
Fidelity Spartan Extended Market Index Fund	Mutual Fund	United States	20,034	0.1	0	0	28-Feb-2015
Tepper (Robert I)	Individual Investor	United States	18,954	0.09	0	0	28-Feb-2015
Principal Variable Contract SmallCap Blend Account	Mutual Fund	United States	12,120	0.06	0	0	28-Feb-2015
Garmey Edward Graeme	Individual Investor	United States	6,892	0.03	6,892	1	28-Feb-2015
Fidelity NASDAQ Composite Index Fund	Mutual Fund	United States	4,980	0.02	0	0	28-Feb-2015
Guggenheim Investments	Investment Advisor/Hedge Fund	United States	1,773	0.01	0	0	28-Feb-2015
Wilshire Micro-Cap ETF	Mutual Fund	United States	1,773	0.01	0	0	28-Feb-2015
AXA/Lord Abbett Micro Cap Portfolio	Mutual Fund	United States	1,590	0.01	0	0	31-Jan-2015
Vanguard Extended Market Index Fund	Mutual Fund	United States	1,415	0.01	0	0	28-Feb-2015

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	2011	2012	2013	2014	
Sales (USD M)	0.305	0.625	0.006	0.08	
Operating Income (USD M)	-18.878	-21.575	-15.86	-20.279	
Net Income (USD M)	-18.942	-22.101	-17.143	-23.342	

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Quarterly earnings update

Period	Sales (USD M)	Operating Income (USD M)	Net Income (USD M)
2014 Q4	0	-7.308	-7.467
2014 Q3	0	-5.369	-5.558
2014 Q2	0.033	-4.644	-7.403
2014 Q1	0.047	-2.958	-2.914
2013 Q4	0.006	-3.009	-3.48
2013 Q3	0	-2.813	-3.198
2013 Q2	0	-4.587	-4.893
2013 Q1	0	-5.451	-5.572
2012 Q4	0	-5.188	-5.526

BALANCE SHEET

Assets (USD M)

	2011	2012	2013	2014	
Cash & Short Term Investments	15.345	16.707	5.488	51.174	
Inventories - Total	0	0	0	0	
Current Assets - Total	15.677	17.064	6.447	52.836	
Property, Plant And Equipment - Net	0.611	0.442	0.245	0.342	
Other Assets - Total	0.402	0.155	0.135	0.215	
Total Assets	16.69	17.661	6.827	53.393	

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Liabilities (USD M)

	2011	2012	2013	2014	
Accounts Payable	1.063	0.9	0.914	1.255	
Short Term Debt & Current Portion Of Long Term Debt	0.127	2.869	11.958	3.124	
Current Liabilities - Total	3.514	6.524	15.146	8.061	
Long Term Debt	0	6.258	3.124	0	
Deferred Taxes	0	0	0		
Other Liabilities	0.822	1.167	1.331	0.007	
Total Liabilities	4.336	13.949	19.601	8.068	

Stockholders Equity (USD M)

	2011	2012	2013	2014	
Minority Interest	0	0	0	0	
Preferred Stock	70.751	83.751	81.525	0	
Common Stock	0.001	0.001	0	0.002	
Treasury Stock	0		0		
Total Liabilities & Shareholders' Equity	16.69	17.661	6.827	53.393	

FORECASTS

EPS Forecast

Year ending	Current Forecast	1 month ago	3 months ago
31-Dec-2015	-2.16	-2.16	-2.16
31-Dec-2016	-2.36	-2.31	-2.31
31-Dec-2017	-3.31	-3.18	-3.18

Other Forecasts

Year ending	DPS	CPS	Pretax	Sales
31-Dec-2015			-44.91	0
31-Dec-2016			-57.34	0
31-Dec-2017			-75.55	2.14

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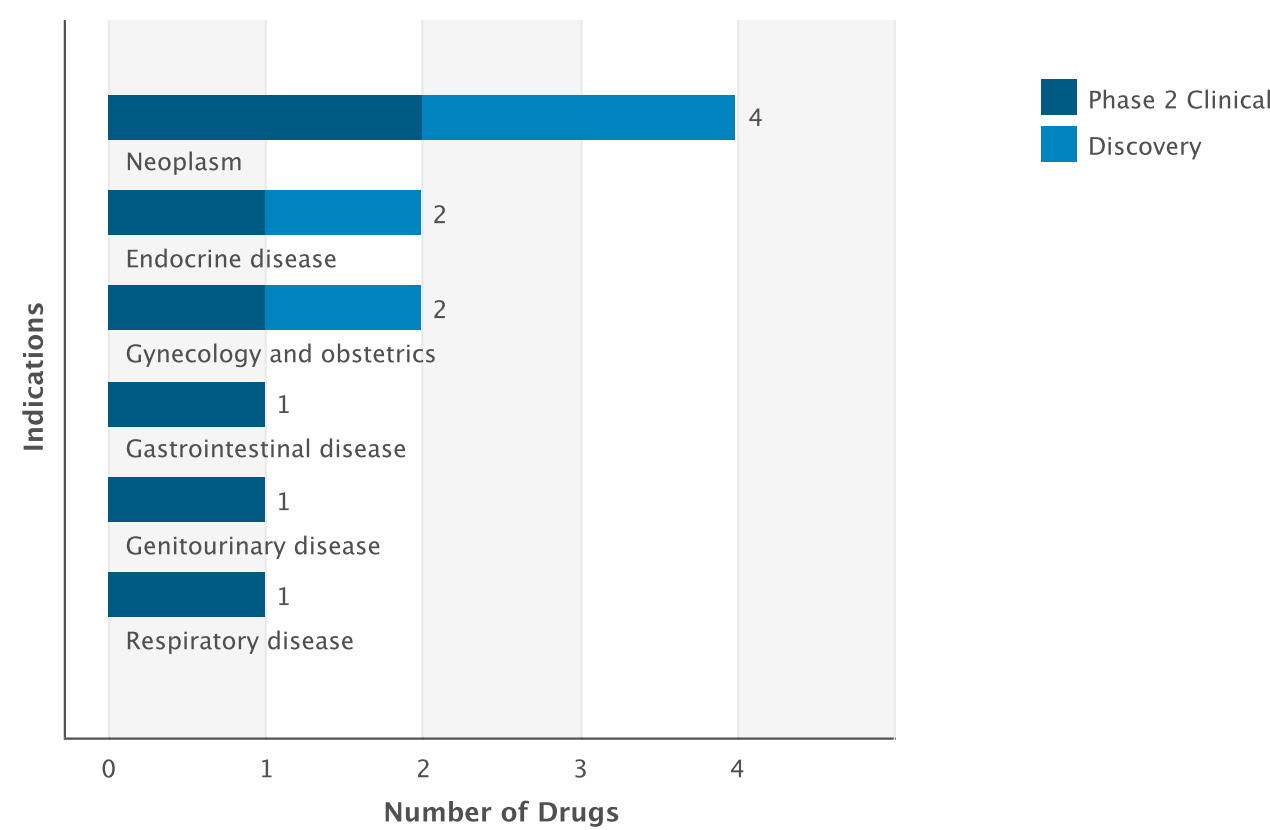


PRODUCT PORTFOLIO SUMMARY

DRUGS

Drugs by Indication

Active Drugs by Indication Chart



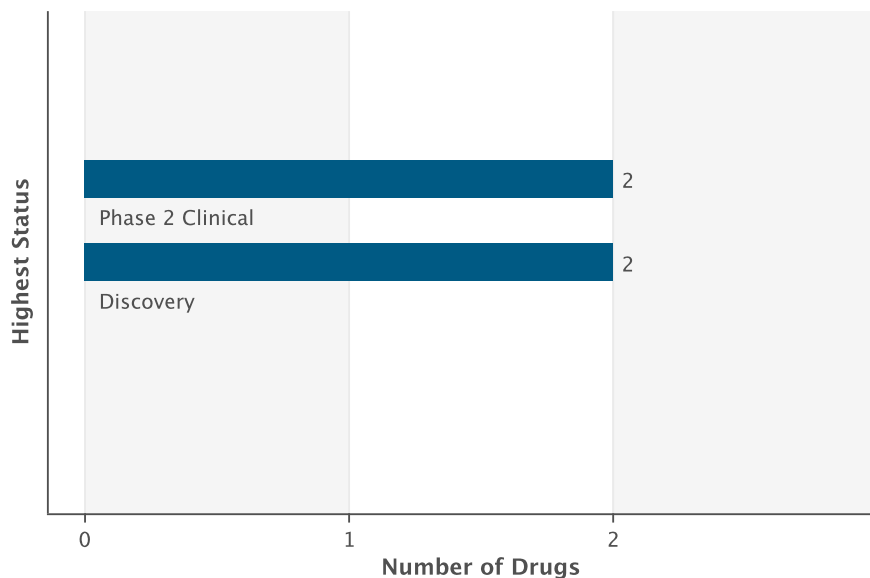
Drugs by Indication Table

Indication	Active	Inactive	Total
Neoplasm	4	1	5
Endocrine disease	2	0	2
Gynecology and obstetrics	2	0	2
Gastrointestinal disease	1	0	1
Respiratory disease	1	0	1
Genitourinary disease	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	2
Discovery	2
No Development Reported	1

DEALS

Deal Type	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Drug - Development/Commercialization License	0	0	1	0	1
Drug - Development Services	0	0	1	0	1

CLINICAL TRIALS

Trials by Condition Studied

Condition Studied	Ongoing	All
Neoplasm	5	8
Genitourinary disease	2	3
Gastrointestinal disease	2	2

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Gynecology and obstetrics	1	2
Endocrine disease	1	2
Respiratory disease	0	1

Trials by Phase

Phase	Ongoing	All
Phase 2	1	3
Phase 1	4	5

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
Cardiovascular disease	10	1	11
Endocrine disease	12	0	12
Gastrointestinal disease	12	0	12
Genitourinary disease	8	0	8
Growth disorder	1	0	1
Hematological disease	4	0	4
Degeneration	2	0	2
Andrology	2	0	2
Immune disorder	15	1	16
Psychiatric disorder	1	0	1
Musculoskeletal disease	6	0	6
Neoplasm	24	1	25
Ocular disease	2	0	2
Genetic disorder	2	0	2

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Metabolic disorder	11	0	11
Neurological disease	6	0	6
Nutritional disorder	3	0	3
Respiratory disease	6	2	8
Infectious disease	5	2	7
Inflammatory disease	14	1	15
Otorhinolaryngological disease	1	0	1
Gynecology and obstetrics	8	0	8
Dermatological disease	6	0	6

* 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 DRUGS

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

camptothecin nanoparticle (cancer), Cerulean Pharma

Drug Name	camptothecin nanoparticle (cancer), Cerulean Pharma
Key Synonyms	
Originator Company	Calando Pharmaceuticals Inc
Active Companies	Cerulean Pharma Inc
Inactive Companies	Calando Pharmaceuticals Inc
Highest Status	Phase 2 Clinical
Active Indications	Small-cell lung cancer, Non-small-cell lung cancer, Breast tumor, Renal tumor, Ovary tumor, Stomach tumor, Rectal tumor
Target-based Actions	Topoisomerase I inhibitor, Hypoxia inducible factor-1 alpha inhibitor
Other Actions	Synergist, Anticancer
Technologies	Nanoparticle formulation injectable, Controlled release formulation, Intravenous formulation, Small molecule therapeutic
Last Change Date	20-Mar-2015

docetaxel (Cyclodextrin Nanoparticle Technology), Cerulean

Drug Name	docetaxel (Cyclodextrin Nanoparticle Technology), Cerulean
Key Synonyms	docetaxel
Originator Company	Cerulean Pharma Inc
Active Companies	Cerulean Pharma Inc
Inactive Companies	
Highest Status	Phase 2 Clinical
Active Indications	Advanced solid tumor, Cancer
Target-based Actions	
Other Actions	Microtubule inhibitor, Anticancer, Cell cycle inhibitor
Technologies	Nanoparticle formulation injectable, Intravenous formulation, Infusion, Small molecule therapeutic
Last Change Date	19-Mar-2015

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siRNA-containing polymeric nanoparticle technology (cancer), Cerulean

Drug Name	siRNA-containing polymeric nanoparticle technology (cancer), Cerulean
Key Synonyms	
Originator Company	Cerulean Pharma Inc
Active Companies	Cerulean Pharma Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Breast tumor
Target-based Actions	
Other Actions	Anticancer, siRNA agent
Technologies	Oligonucleotide, Nanoparticle formulation, Biological therapeutic
Last Change Date	24-Sep-2014

CRLX-522

Drug Name	CRLX-522
Key Synonyms	
Originator Company	Cerulean Pharma Inc
Active Companies	Cerulean Pharma Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Cancer
Target-based Actions	
Other Actions	Anticancer
Technologies	Nanoparticle formulation, Small molecule therapeutic
Last Change Date	17-Apr-2014

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