

## **Cerulean Pharma Inc**

### **COMPANY AND PIPELINE OVERVIEW REPORT**

Coverage of the company and a summary of the drug pipeline portfolio.

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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i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.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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# Cerulean Pharma Inc

## COMPANY OVERVIEW

Company Name	Cerulean Pharma Inc
Parent Company Name	Cerulean Pharma Inc
Website	<a href="http://ceruleanrx.com/">http://ceruleanrx.com/</a>
Country	US
Number of Drugs in Active Development	3
Number of Inactive Drugs	1
Number of Patents as Owner	23
Number of Patents as Third Party	2
Number of Deals	1
Key Indications	Cancer,Breast tumor,Non-small-cell lung cancer,Ovary tumor,Stomach tumor,Renal tumor,Cardiovascular disease,Rectal tumor,Small-cell lung cancer,Autoimmune disease
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,PLK1 gene inhibitor,Thymidylate synthase inhibitor,Transferase inhibitor
Key Technologies	Nanoparticle formulation,Small molecule therapeutic,PEGylated formulation,Biological therapeutic,Oligonucleotide,Controlled release formulation,Formulation preservation,Intravenous formulation,Peptide,Nanoparticle formulation injectable,Oligonucleotide

## 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 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.

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.

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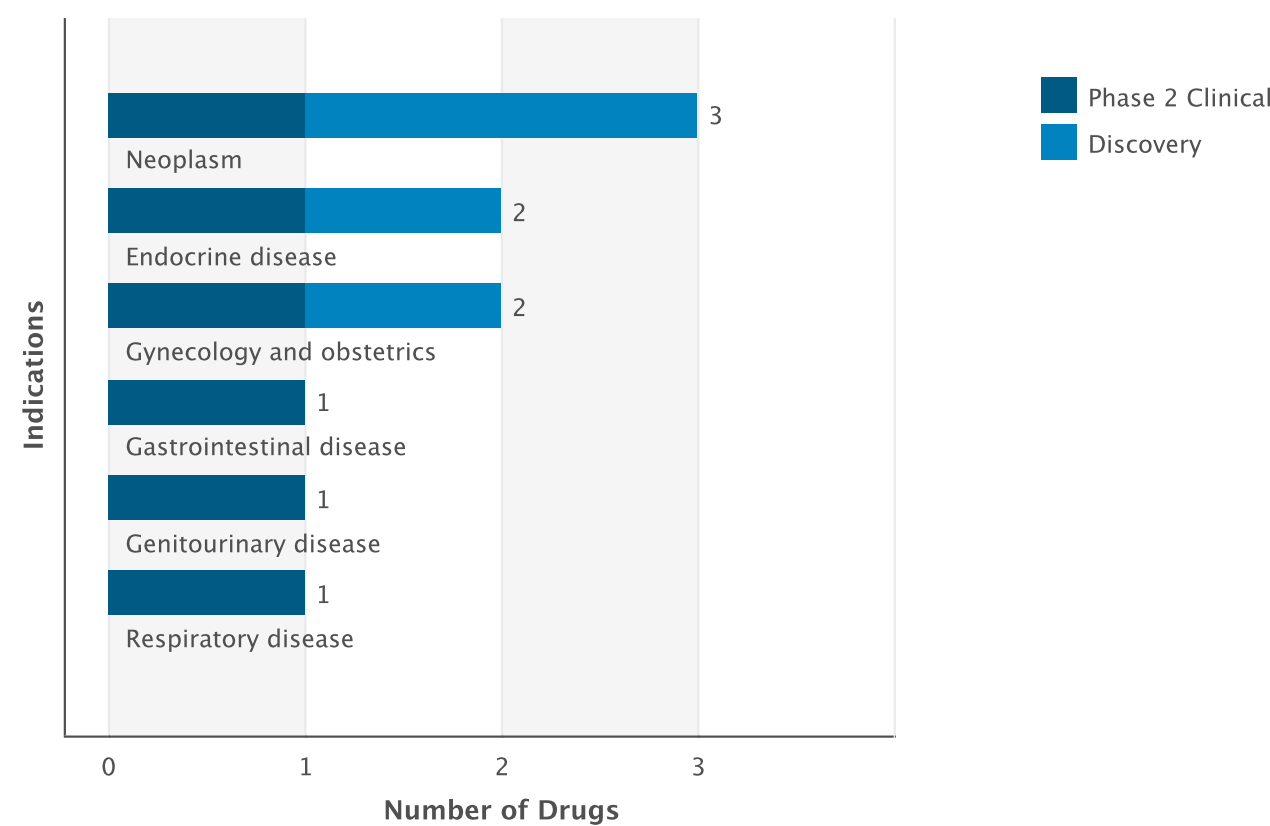


PRODUCT PORTFOLIO SUMMARY

DRUGS

Drugs by Indication

Active Drugs by Indication Chart



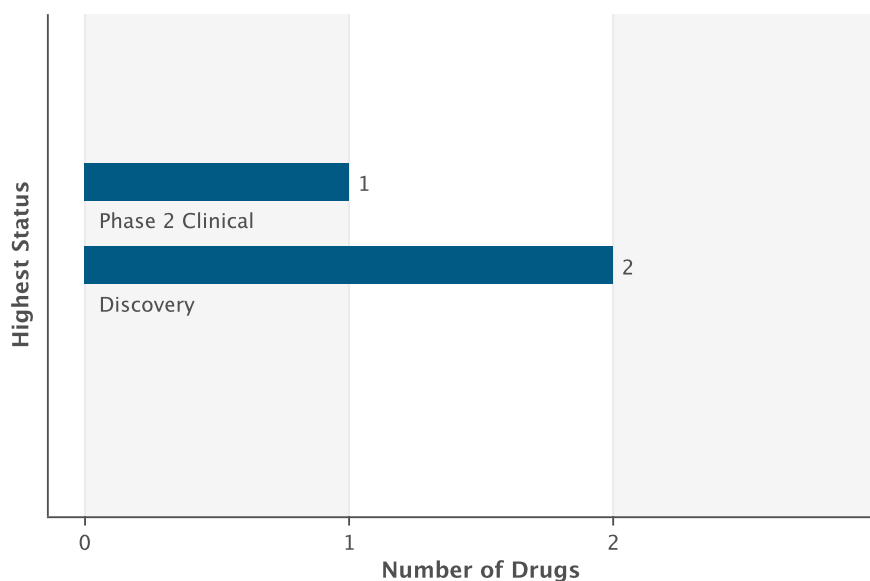
Drugs by Indication Table

Indication	Active	Inactive	Total
Neoplasm	3	1	4
Endocrine disease	2	0	2
Gynecology and obstetrics	2	0	2
Gastrointestinal disease	1	0	1
Genitourinary disease	1	0	1
Respiratory 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	1
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

## CLINICAL TRIALS

Trials by Condition Studied

Condition Studied	Ongoing	All
Neoplasm	2	4
Endocrine disease	0	1
Genitourinary disease	0	1
Gastrointestinal disease	1	1

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Respiratory disease	1	1
Gynecology and obstetrics	0	1

### Trials by Phase

Phase	Ongoing	All
Phase 2	1	2
Phase 1	1	2

### 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	9	1	10
Endocrine disease	11	0	11
Gastrointestinal disease	11	0	11
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	13	1	14
Psychiatric disorder	1	0	1
Musculoskeletal disease	5	0	5
Neoplasm	21	1	22
Ocular disease	2	0	2
Genetic disorder	2	0	2
Metabolic disorder	9	0	9

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Neurological disease	5	0	5
Nutritional disorder	3	0	3
Respiratory disease	6	1	7
Infectious disease	5	1	6
Inflammatory disease	12	1	13
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

<b>Drug Name</b>	camptothecin nanoparticle (cancer), Cerulean Pharma
<b>Key Synonyms</b>	
<b>Originator Company</b>	Insert Therapeutics Inc
<b>Active Companies</b>	Cerulean Pharma Inc
<b>Inactive Companies</b>	Calando Pharmaceuticals Inc, Insert Therapeutics Inc
<b>Highest Status</b>	Phase 2 Clinical
<b>Active Indications</b>	Non-small-cell lung cancer, Small-cell lung cancer, Renal tumor, Ovary tumor, Stomach tumor, Rectal tumor
<b>Target-based Actions</b>	Topoisomerase I inhibitor, Hypoxia inducible factor-1 alpha inhibitor
<b>Other Actions</b>	Synergist, Anticancer
<b>Technologies</b>	Controlled release formulation, Intravenous formulation, Small molecule therapeutic
<b>Last Change Date</b>	13-Feb-2014

### CRLX-301

<b>Drug Name</b>	CRLX-301
<b>Key Synonyms</b>	
<b>Originator Company</b>	Cerulean Pharma Inc
<b>Active Companies</b>	Cerulean Pharma Inc
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Cancer
<b>Target-based Actions</b>	
<b>Other Actions</b>	Microtubule inhibitor, Cell cycle inhibitor, Anticancer
<b>Technologies</b>	Nanoparticle formulation, Small molecule therapeutic
<b>Last Change Date</b>	20-Mar-2013

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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, Small molecule therapeutic
Last Change Date	01-Aug-2013

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