

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i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.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

COMPANY OVERVIEW

Company Name	CoNCERT Pharmaceuticals Inc
Parent Company Name	CoNCERT Pharmaceuticals Inc
Website	http://www.concertpharma.com/
Country	US
Number of Drugs in Active Development	16
Number of Inactive Drugs	6
Number of Patents as Owner	130
Number of Patents as Third Party	1
Number of Deals	6
Key Indications	HIV infection, Cardiovascular disease, Neuropathic pain, Cancer, Renal disease, Anxiety disorder, Epilepsy, Pain, Major depressive disorder, Hepatitis C virus infection
Key Target-based Actions	NMDA receptor antagonist, GABA A receptor modulator, HIV protease inhibitor, CCR5 chemokine antagonist, EGFR family tyrosine kinase receptor inhibitor, HIV-1 protease inhibitor, Calcium channel inhibitor T-type, GABA A receptor alpha-5 subunit modulator, Opioid receptor sigma agonist 1, PDE 3
Key Technologies	Small molecule therapeutic, Oral formulation, Antibiotic, Controlled release formulation, Systemic formulation unspecified, Drug combination, Formulation preservation, Labeling system, Prodrug, Labeling synthesis

COMPANY PROFILE

SUMMARY

CoNCERT Pharmaceuticals Inc is a Boston-based pharmaceutical company which uses chemical methodology, involving an innovative precision deuterium chemistry platform to modify specific properties of validated drug molecules, to create bioavailable drug candidates.

EARLY R&D

By May 2009, Concert Pharmaceuticals was investigating deuterium analogs of rimonabant and mosapride.

By January 2008, the company was researching an HER2/EGFR inhibitor, an antiviral, a cytokine inhibitor and a number of antibiotics, for deuteration. By June 2008, CoNCERT was also researching a protease inhibitor for the potential treatment of HIV, an antifibrotic agent, an NMDA antagonist/ sigma agonist for the potential treatment of neuropathic pain, an antibacterial for the potential treatment of MRSA, an antipsychotic for the potential treatment for schizophrenia, a PDE-5 inhibitor for the potential treatment pulmonary arterial hypertension and benign prostate hyperplasia, a calcium modulator for the potential treatment of hyperparathyroidism, an EGFR inhibitor for the potential treatment of tumors and a CCR5 antagonist for the potential treatment of HIV.

FINANCIAL

In April 2008, CoNCERT Pharmaceuticals raised \$37 million in a series C financing round. The company planned to use the funds to advance its deuterium chemistry platform and product pipeline.

In November 2006, CoNCERT raised \$48.5 million in series B financing.

In July 2006, CoNCERT raised \$10 million from a series A venture capital financing.

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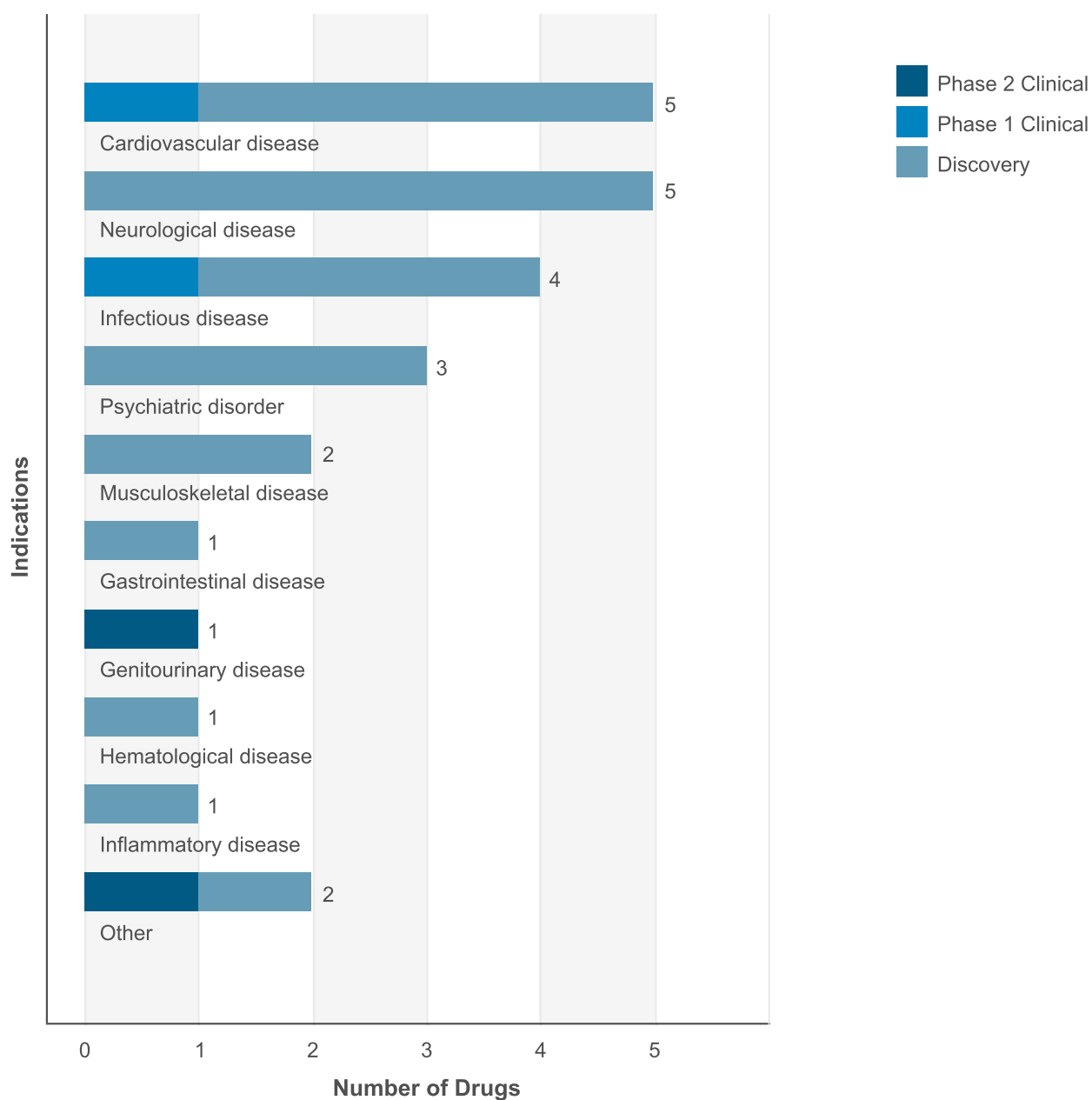


PRODUCT PORTFOLIO SUMMARY

DRUGS

Drugs by Indication

Active Drugs by Indication Chart



Drugs by Indication Table

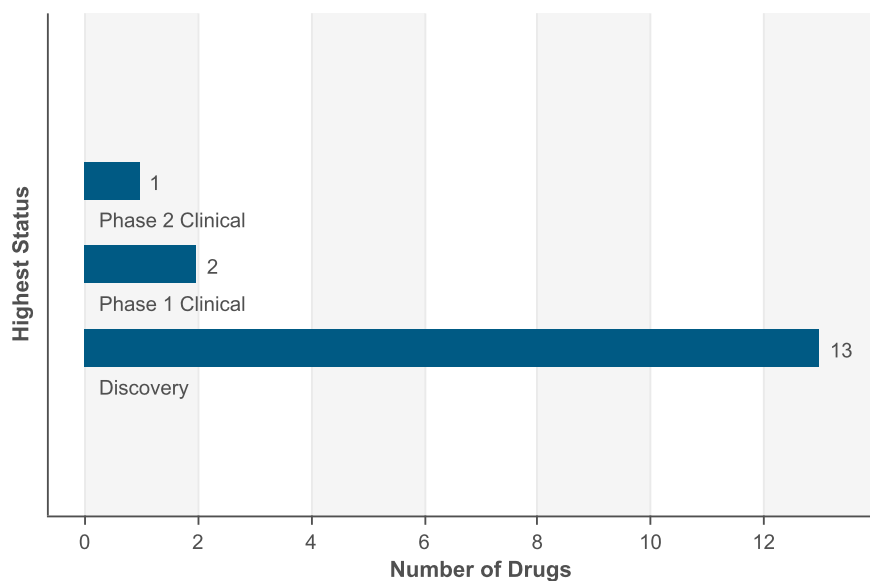
Indication	Active	Inactive	Total
Neurological disease	5	2	7

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Infectious disease	4	2	6
Cardiovascular disease	5	0	5
Psychiatric disorder	3	1	4
Inflammatory disease	1	2	3
Musculoskeletal disease	2	1	3
Neoplasm	1	2	3
Immune disorder	0	2	2
Genitourinary disease	1	1	2
Gastrointestinal disease	1	0	1
Injury	1	0	1
Respiratory disease	0	1	1
Hematological disease	1	0	1

Drugs by Highest Status

Active Drugs by Highest Status Chart



Drugs by Highest Status Table

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

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Discovery	13
Discontinued	1
No Development Reported	5

DEALS

Deal Type	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Drug - Funding	1	0	0	0	1
Drug - CRADA	1	0	0	0	1
Drug - Screening/Evaluation	1	0	1	0	2
Drug - Development/Commercialization License	2	0	0	0	2

CLINICAL TRIALS

Trials by Condition Studied

Condition Studied	Ongoing	All
Genitourinary disease	1	3
Infectious disease	0	2
Cardiovascular disease	0	1
Psychiatric disorder	0	1

Trials by Phase

Phase	Ongoing	All
Phase 3	0	1
Phase 2	1	1
Phase 1	0	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

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PATENTS *

Indication	As Owner	As Third Party	Total
Cardiovascular disease	56	0	56
Endocrine disease	37	0	37
Gastrointestinal disease	56	0	56
Genitourinary disease	54	0	54
Growth disorder	10	0	10
Hematological disease	20	0	20
Degeneration	13	0	13
Andrology	20	0	20
Immune disorder	44	0	44
Psychiatric disorder	30	0	30
Musculoskeletal disease	25	0	25
Neoplasm	39	0	39
Ocular disease	15	0	15
Genetic disorder	18	0	18
Metabolic disorder	34	0	34
Neurological disease	66	0	66
Nutritional disorder	13	0	13
Respiratory disease	26	0	26
Infectious disease	38	0	38
Injury	6	0	6
Toxicity and intoxication	7	0	7
Inflammatory disease	43	0	43
Fatigue	2	0	2
Otorhinolaryngological disease	2	0	2
Gynecology and obstetrics	21	0	21

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Dermatological disease	27	0	27
Ulcer	5	0	5

* 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

CTP-499

Drug Name	CTP-499
Key Synonyms	
Originator Company	CoNCERT Pharmaceuticals Inc
Active Companies	GlaxoSmithKline plc, CoNCERT Pharmaceuticals Inc
Inactive Companies	
Highest Status	Phase 2 Clinical
Active Indications	Renal disease
Target-based Actions	
Other Actions	Fibrosuppressant, Anti-inflammatory, Antioxidant agent, Renal system agent
Technologies	Controlled release formulation, Small molecule therapeutic
Last Change Date	02-Nov-2012

CTP-347

Drug Name	CTP-347
Key Synonyms	
Originator Company	CoNCERT Pharmaceuticals Inc
Active Companies	CoNCERT Pharmaceuticals Inc
Inactive Companies	
Highest Status	Phase 1 Clinical
Active Indications	Hot flashes
Target-based Actions	
Other Actions	5-HT uptake inhibitor
Technologies	Oral formulation, Small molecule therapeutic
Last Change Date	15-Dec-2011

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CTP-298

Drug Name	CTP-298
Key Synonyms	
Originator Company	CoNCERT Pharmaceuticals Inc
Active Companies	GlaxoSmithKline plc, CoNCERT Pharmaceuticals Inc
Inactive Companies	
Highest Status	Phase 1 Clinical
Active Indications	HIV infection
Target-based Actions	HIV protease inhibitor
Other Actions	Antiviral
Technologies	Oral formulation, Small molecule therapeutic
Last Change Date	07-Sep-2012

deuterated boceprevir analogs (HCV infection), CoNCERT

Drug Name	deuterated boceprevir analogs (HCV infection), CoNCERT
Key Synonyms	
Originator Company	CoNCERT Pharmaceuticals Inc
Active Companies	CoNCERT Pharmaceuticals Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Hepatitis C virus infection
Target-based Actions	Hepatitis C virus protease inhibitor
Other Actions	
Technologies	Small molecule therapeutic
Last Change Date	14-Dec-2011

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prostacyclin analog (deuterated, pulmonary hypertension), CoNCERT

Drug Name	prostacyclin analog (deuterated, pulmonary hypertension), CoNCERT
Key Synonyms	
Originator Company	CoNCERT Pharmaceuticals Inc
Active Companies	CoNCERT Pharmaceuticals Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Pulmonary artery hypertension
Target-based Actions	
Other Actions	Antihypertensive, Prostacyclin agonist
Technologies	Small molecule therapeutic
Last Change Date	16-Sep-2011

C-10068

Drug Name	C-10068
Key Synonyms	
Originator Company	CoNCERT Pharmaceuticals Inc
Active Companies	Walter Reed Army Institute of Research, CoNCERT Pharmaceuticals Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Brain injury, Neuropathic pain, Epilepsy, Major depressive disorder
Target-based Actions	Opioid receptor sigma agonist 1
Other Actions	Neuroprotectant, Analgesic, Antidepressant, Anticonvulsant agent
Technologies	Small molecule therapeutic
Last Change Date	06-Sep-2012

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CTP-354

Drug Name	CTP-354
Key Synonyms	
Originator Company	CoNCERT Pharmaceuticals Inc
Active Companies	CoNCERT Pharmaceuticals Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Muscle hypertonia, Neuropathic pain, Anxiety disorder
Target-based Actions	GABA A receptor modulator
Other Actions	Anxiolytic, Analgesic
Technologies	Small molecule therapeutic
Last Change Date	06-Sep-2012

deuterated darunavir analogs (HIV infection), CoNCERT

Drug Name	deuterated darunavir analogs (HIV infection), CoNCERT
Key Synonyms	
Originator Company	CoNCERT Pharmaceuticals Inc
Active Companies	CoNCERT Pharmaceuticals Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	HIV infection
Target-based Actions	HIV-1 protease inhibitor
Other Actions	
Technologies	Small molecule therapeutic
Last Change Date	21-Sep-2011

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deuterated ranolazine analogs (cardiovascular disease), CoNCERT

Drug Name	deuterated ranolazine analogs (cardiovascular disease), CoNCERT
Key Synonyms	
Originator Company	CoNCERT Pharmaceuticals Inc
Active Companies	CoNCERT Pharmaceuticals Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Cardiovascular disease
Target-based Actions	
Other Actions	Antiarrhythmic agent, Cardioprotectant, Lipid metabolism modulator
Technologies	Small molecule therapeutic
Last Change Date	16-Sep-2011

deuterated cilostazol analogs (cardiovascular disease), CoNCERT

Drug Name	deuterated cilostazol analogs (cardiovascular disease), CoNCERT
Key Synonyms	
Originator Company	CoNCERT Pharmaceuticals Inc
Active Companies	CoNCERT Pharmaceuticals Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Cardiovascular disease
Target-based Actions	PDE 3 inhibitor
Other Actions	Vasodilator, Platelet aggregation inhibitor, Cardioprotectant
Technologies	
Last Change Date	16-Sep-2011

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deuterated praziquantel analogs (schistosomiasis), CoNCERT Pharmaceuticals

Drug Name	deuterated praziquantel analogs (schistosomiasis), CoNCERT Pharmaceuticals
Key Synonyms	
Originator Company	CoNCERT Pharmaceuticals Inc
Active Companies	CoNCERT Pharmaceuticals Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Schistosomiasis
Target-based Actions	
Other Actions	Unspecified drug target, Antiparasitic
Technologies	Small molecule therapeutic
Last Change Date	06-Sep-2012

deuterated GABAA receptor inverse agonists (cognition enhancement), CoNCERT

Drug Name	deuterated GABAA receptor inverse agonists (cognition enhancement), CoNCERT
Key Synonyms	
Originator Company	CoNCERT Pharmaceuticals Inc
Active Companies	CoNCERT Pharmaceuticals Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Cognitive disorder
Target-based Actions	GABA A receptor alpha-5 subunit modulator
Other Actions	Nootropic agent, GABA A receptor inverse agonist
Technologies	Small molecule therapeutic
Last Change Date	25-Nov-2011

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C-10291

Drug Name	C-10291
Key Synonyms	
Originator Company	CoNCERT Pharmaceuticals Inc
Active Companies	CoNCERT Pharmaceuticals Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Fibromyalgia, Narcolepsy
Target-based Actions	
Other Actions	Neuroprotectant
Technologies	Small molecule therapeutic
Last Change Date	20-Dec-2011

CTP-221

Drug Name	CTP-221
Key Synonyms	
Originator Company	CoNCERT Pharmaceuticals Inc
Active Companies	CoNCERT Pharmaceuticals Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Hematological neoplasm, Myelodysplastic syndrome
Target-based Actions	
Other Actions	Unspecified drug target, Immunomodulator, Anticancer
Technologies	Small molecule therapeutic
Last Change Date	21-Dec-2012

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CTP-786

Drug Name	CTP-786
Key Synonyms	
Originator Company	CoNCERT Pharmaceuticals Inc
Active Companies	CoNCERT Pharmaceuticals Inc, AVANIR Pharmaceuticals Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Psychiatric disorder, Pain
Target-based Actions	
Other Actions	Unspecified drug target, Analgesic
Technologies	Small molecule therapeutic
Last Change Date	16-Aug-2012

deuterated mibefradil analogs (cardiovascular disease), CoNCERT

Drug Name	deuterated mibefradil analogs (cardiovascular disease), CoNCERT
Key Synonyms	
Originator Company	CoNCERT Pharmaceuticals Inc
Active Companies	CoNCERT Pharmaceuticals Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Cardiovascular disease
Target-based Actions	Calcium channel inhibitor T-type
Other Actions	Antihypertensive, Class IV antiarrhythmic agent
Technologies	Small molecule therapeutic
Last Change Date	26-Oct-2012

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