

Fate Therapeutics Inc

COMPANY AND PIPELINE OVERVIEW REPORT

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

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[Return to Table of Contents](#)



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Thomson Reuters provides the knowledge, tools, and expertise to help support drug discovery and development activities, IP portfolio optimization, identification of licensing and partnering opportunities, delivery of successful regulatory submissions, and the ability to keep current with the rapidly-changing pharmaceutical and chemical markets, supporting informed, early decisions.

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[Return to Table of Contents](#)



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i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.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

[Return to Table of Contents](#)



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

[Return to Table of Contents](#)



TABLE OF CONTENTS

Company Overview..... 7

Company Profile..... 7

Subsidiary Companies..... 8

Product Portfolio Summary..... 8

Product Portfolio Drugs..... 12

[Return to Table of Contents](#)

Fate Therapeutics Inc

COMPANY OVERVIEW

Company Name	Fate Therapeutics Inc
Parent Company Name	Fate Therapeutics Inc
Website	http://fatetherapeutics.com/
Country	US
Number of Drugs in Active Development	4
Number of Inactive Drugs	8
Number of Patents as Owner	26
Number of Patents as Third Party	2
Number of Deals	7
Key Indications	Stem cell transplantation, Muscular dystrophy, Muscle wasting disease, Genetic disorder, Hearing loss, Cardiovascular disease, Myocardial infarction, Obesity, Stroke, Alopecia, Bone disease, Bone injury, Osteoarthritis, Osteoporosis, Peripheral vascular disease
Key Target-based Actions	Hedgehog protein stimulator, GLI gene stimulator, Osteocalcin stimulator, Wnt 7A ligand, Wnt inhibitory factor 1 stimulator, Wnt ligand, Cardiotrophin-1 ligand, Glucocorticoid agonist, POU domain 5 transcription factor 1 stimulator, Prostanoid receptor agonist
Key Technologies	Small molecule therapeutic, Haematopoietic stem cell therapy, Allogenic stem cell therapy, Biological therapeutic, Umbilical cord stem cell therapy, Systemic formulation unspecified, Pluripotent stem cell therapy, Peptide, Polynucleotide sequence, Adult stem cell therapy, Cell culture technique

COMPANY PROFILE

SUMMARY

Fate Therapeutics Inc, formed in November 2007 by Harvard University, Stanford University, University of Washington, the Scripps Research Institute (TSRI) and the Massachusetts General Hospital, is a biotechnology company that aims to develop small-molecules and biologicals to activate the body's existing stem cells and to create and differentiate induced pluripotent stem (iPS) cells.

COMPANY LOCATION

By November 2007, Fate had facilities in Seattle and planned to have locations in California and Massachusetts 'soon'.

ACQUISITIONS AND SPIN-OFFS

In April 2010, Fate entered into a definite agreement to acquire Verio Therapeutics. The acquisition had been approved by the boards of both companies. Under the terms of the agreement, Fate would establish a Canadian subsidiary to continue to work on Verio's programs. At that time, no financial terms had been disclosed.

LICENSING AGREEMENTS

In July 2009, Fate Therapeutics entered into an agreement with the Regents of the University of California for exclusive intellectual property rights covering osteogenic agents, and small molecule compositions and techniques for inducing bone formation. The patents would be used to augment Fate's stem cell modulators (SCM).

EARLY R&D/TECHNOLOGY UPDATES

In October 2009, Fate and TSRI announced that they had developed a novel method of generating human induced pluripotent stem cells. The method using a combination of small molecules and was found to improve programming efficiency 200-fold and decrease time spent reprogramming.

In July 2009, preclinical data were presented at the 7th Annual Meeting of the International Society for Stem Cell

[Return to Table of Contents](#)



Research in Barcelona, Spain, showing that Wnt activators induced mesenchymal stem cells to differentiate into mature bone-forming osteoblasts.

By May 2009, Fate was investigating small molecule stem cell modulators (SCM), developed using the company's adult stem cell biology engine and induced pluripotent stem (iPS) cell technology, with broad therapeutic potential in areas including regenerative medicine, hematological diseases, metastatic cancer, traumatic injury and degenerative diseases.

In April 2009, Fate and Stemgent launched the Catalyst program to provide pluripotent stem cell platform for drug discovery and development.

FINANCIAL

In August 2013, the company filed a registration statement on Form S-1 with the US Securities and Exchange Commission regarding its planned IPO of shares. In October 2013, Fate reported the IPO would consist of 6,666,667 shares priced at \$6.00 per share. Underwriters would be granted a 30-day option to buy 1 million additional shares. At that time, the shares began trading on the NASDAQ Global Market under the ticker symbol 'FATE'. Later that month, the company raised net proceeds of \$40.4 million from closing the IPO of 7,666,667 shares of its common stock, including 1 million shares issued upon the exercise in full by the underwriters of their option to purchase additional shares.

In May 2001, Fate received an equity investment from Takeda Ventures.

In November 2009, the company raised \$30 million in a series B financing round.

SUBSIDIARY COMPANIES

Names
Verio Therapeutics Inc

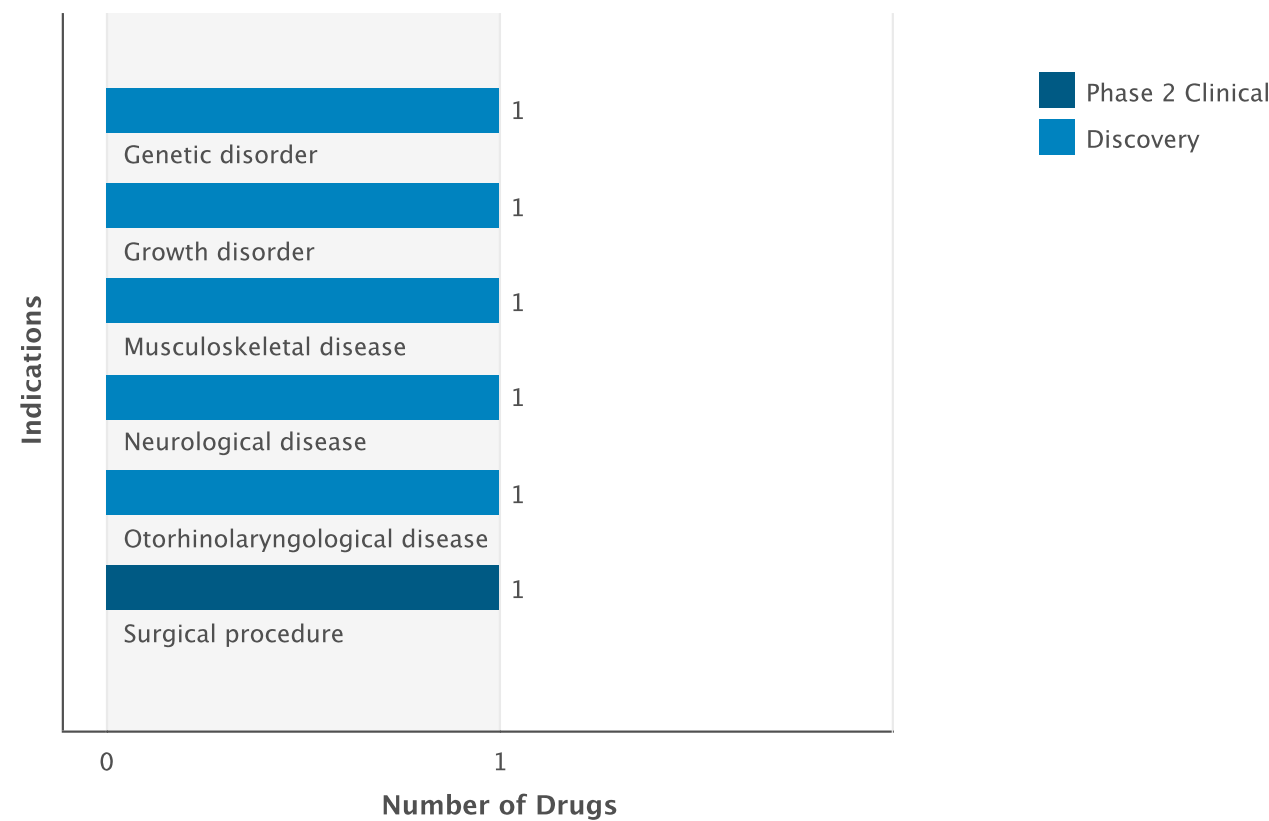
[Return to Table of Contents](#)

PRODUCT PORTFOLIO SUMMARY

DRUGS

Drugs by Indication

Active Drugs by Indication Chart



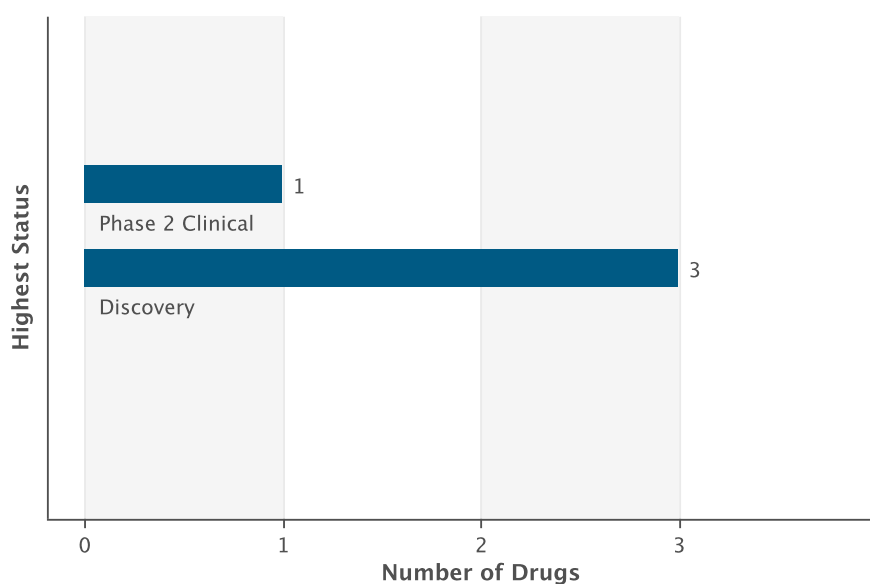
[Return to Table of Contents](#)

Drugs by Indication Table

Indication	Active	Inactive	Total
Musculoskeletal disease	1	3	4
Neurological disease	1	2	3
Growth disorder	1	1	2
Surgical procedure	1	1	2
Gastrointestinal disease	0	1	1
Metabolic disorder	0	1	1
Endocrine disease	0	1	1
Injury	0	1	1
Neoplasm	0	1	1
Genetic disorder	1	0	1
Otorhinolaryngological disease	1	0	1
Cardiovascular disease	0	1	1

Drugs by Highest Status

Active Drugs by Highest Status Chart



[Return to Table of Contents](#)

Drugs by Highest Status Table

Development Status	Number of Drugs
Phase 2 Clinical	1
Discovery	3
Discontinued	3
No Development Reported	5

DEALS

Deal Type	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Patent - Exclusive Rights	0	0	3	0	3
Drug - Funding	1	0	0	0	1
Drug - Development/Commercialization License	1	0	2	0	3

CLINICAL TRIALS

Trials by Condition Studied

Condition Studied	Ongoing	All
Hematological disease	0	2
Neoplasm	0	2
Surgical procedure	1	1
Immune disorder	0	1

Trials by Phase

Phase	Ongoing	All
Phase 2	1	1
Phase 1	0	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

[Return to Table of Contents](#)



PATENTS *

Indication	As Owner	As Third Party	Total
Cardiovascular disease	11	0	11
Endocrine disease	10	0	10
Gastrointestinal disease	5	0	5
Genitourinary disease	2	0	2
Growth disorder	4	1	5
Hematological disease	6	0	6
Degeneration	10	0	10
Immune disorder	3	0	3
Musculoskeletal disease	13	1	14
Neoplasm	8	0	8
Ocular disease	1	0	1
Genetic disorder	2	0	2
Metabolic disorder	5	0	5
Mouth disease	1	0	1
Neurological disease	14	1	15
Nutritional disorder	6	1	7
Respiratory disease	2	0	2
Infectious disease	1	0	1
Injury	8	1	9
Inflammatory disease	7	0	7
Otorhinolaryngological disease	1	0	1
Dermatological disease	6	0	6
Surgical procedure	8	1	9

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

[Return to Table of Contents](#)



PRODUCT PORTFOLIO DRUGS

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

ProHema

Drug Name	ProHema
Key Synonyms	ProHema
Originator Company	Fate Therapeutics Inc
Active Companies	Fate Therapeutics Inc
Inactive Companies	
Highest Status	Phase 2 Clinical
Active Indications	Stem cell transplantation
Target-based Actions	
Other Actions	Hematopoietic stimulant, Stem cell modulator, Anticancer
Technologies	Systemic formulation unspecified, Biological therapeutic, Allogenic stem cell therapy, Umbilical cord stem cell therapy, Haematopoietic stem cell therapy
Last Change Date	15-Nov-2013

FT-301

Drug Name	FT-301
Key Synonyms	
Originator Company	Ottawa Hospital Research Institute
Active Companies	Fate Therapeutics Inc
Inactive Companies	Ottawa Hospital Research Institute, Verio Therapeutics Inc
Highest Status	Discovery
Active Indications	Muscle wasting disease, Muscular dystrophy
Target-based Actions	Wnt 7A ligand
Other Actions	Stem cell stimulator
Technologies	Biological therapeutic, Parenteral formulation unspecified, Protein recombinant
Last Change Date	14-Nov-2013

[Return to Table of Contents](#)



stem cell modulator program (hearing restoration), Fate Therapeutics

Drug Name	stem cell modulator program (hearing restoration), Fate Therapeutics
Key Synonyms	
Originator Company	Fate Therapeutics Inc
Active Companies	Fate Therapeutics Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Hearing loss
Target-based Actions	
Other Actions	Stem cell modulator
Technologies	Small molecule therapeutic
Last Change Date	17-Apr-2012

pharmacologically modified hematopoietic stem cell therapy (rare genetic disorders), Fate Therapeutics

Drug Name	pharmacologically modified hematopoietic stem cell therapy (rare genetic disorders), Fate Therapeutics
Key Synonyms	
Originator Company	Fate Therapeutics Inc
Active Companies	Fate Therapeutics Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Genetic disorder
Target-based Actions	
Other Actions	Stem cell modulator
Technologies	Haematopoietic stem cell therapy
Last Change Date	13-Aug-2013

[Return to Table of Contents](#)

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[Return to Table of Contents](#)

