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Fate Therapeutics Inc

COMPANY AND PIPELINE OVERVIEW REPORT

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

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ABOUT COMPANY AND PIPELINE OVERVIEW REPORT

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.

This report was created by Thomson Reuters, using information from *Thomson Reuters Cortellis™ for Competitive Intelligence*; a comprehensive, proven intelligence solution that leverages the most accurate, complete, and widely respected drug pipeline information.From drug discovery and development activities to patent reports, the latest deals, and partnering opportunities, *Cortellis* can provide the confidence to make the most informed business decisions, faster. *Cortellis for Competitive Intelligence* provides accurateand validated information on pharmaceutical and biotechnology companies globally, their drug pipelines, deals, patents, and clinical trials, plus breaking industry news and conference coverage. All contained in one simple, highly intuitive research platform.

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i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.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

COMPANY OVERVIEW

Company Name	Fate Therapeutics Inc
Parent Company Name	Fate Therapeutics Inc
Website	http://www.fatetherapeutics.com/
Country	US
Number of Drugs in Active Development	5
Number of Inactive Drugs	6
Number of Patents as Owner	23
Number of Patents as Third Party	2
Number of Deals	7
Key Indications	Stem cell transplantation,Muscular dystrophy,Muscle wasting disease,Hearing loss,Heart disease,Insulin dependent diabetes,Cardiovascular disease,Myocardial infarction,Obesity,Stroke
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,POU domain 5 transcription factor 1 stimulator,AKT protein kinase stimulator,AMP activated protein kinase stimulator,Acetaldehyde dehydrogenase stimulator,Alk-5 protein kinase inhibitor,B-lymphocyte antigen CD20 stimulator,B-lymphocyte cell adhesion molecule stimulator,BCL2 gene inhibitor,Beta-catenin inhibitor,Bone morphogenetic protein-2 ligand,Bone morphogenetic protein-6 ligand,Brain derived neurotrophic factor ligand,CD29 agonist,CD40 ligand receptor agonist,CELSR2 gene stimulator,CNTF receptor agonist,Cadherin EGF LAG seven pass receptor 2 agonist,Cadherin-1 agonist,Caspase-3 stimulator,Caspase-9 stimulator,Cyclic AMP stimulator,Cytosine deaminase stimulator,FZD7 gene stimulator,Frizzled-7 receptor agonist,Glutathione S-transferase stimulator,Glycogen synthase kinase-3 alpha inhibitor,Glycogen synthase kinase-3 beta inhibitor,Homeobox protein NANOG stimulator,ITGA7 gene stimulator,Insulin receptor substrate-1 stimulator,Integrin alpha-7 agonist,Jun N terminal kinase-1 inhibitor,MEK protein kinase inhibitor,P-Glycoprotein 3 stimulator,Prostaglandin E synthase-1 stimulator,Protein kinase C stimulator,SOX transcription factor 2 stimulator,TGF beta antagonist,WIF1 gene stimulator,WNT7A gene stimulator,Wnt 5A ligand,Wnt inhibitory factor 1 inhibitor,Wnt ligand inhibitor
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,Adult stem cell therapy,Peptide,Polynucleotide sequence

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 buy 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.

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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 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 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

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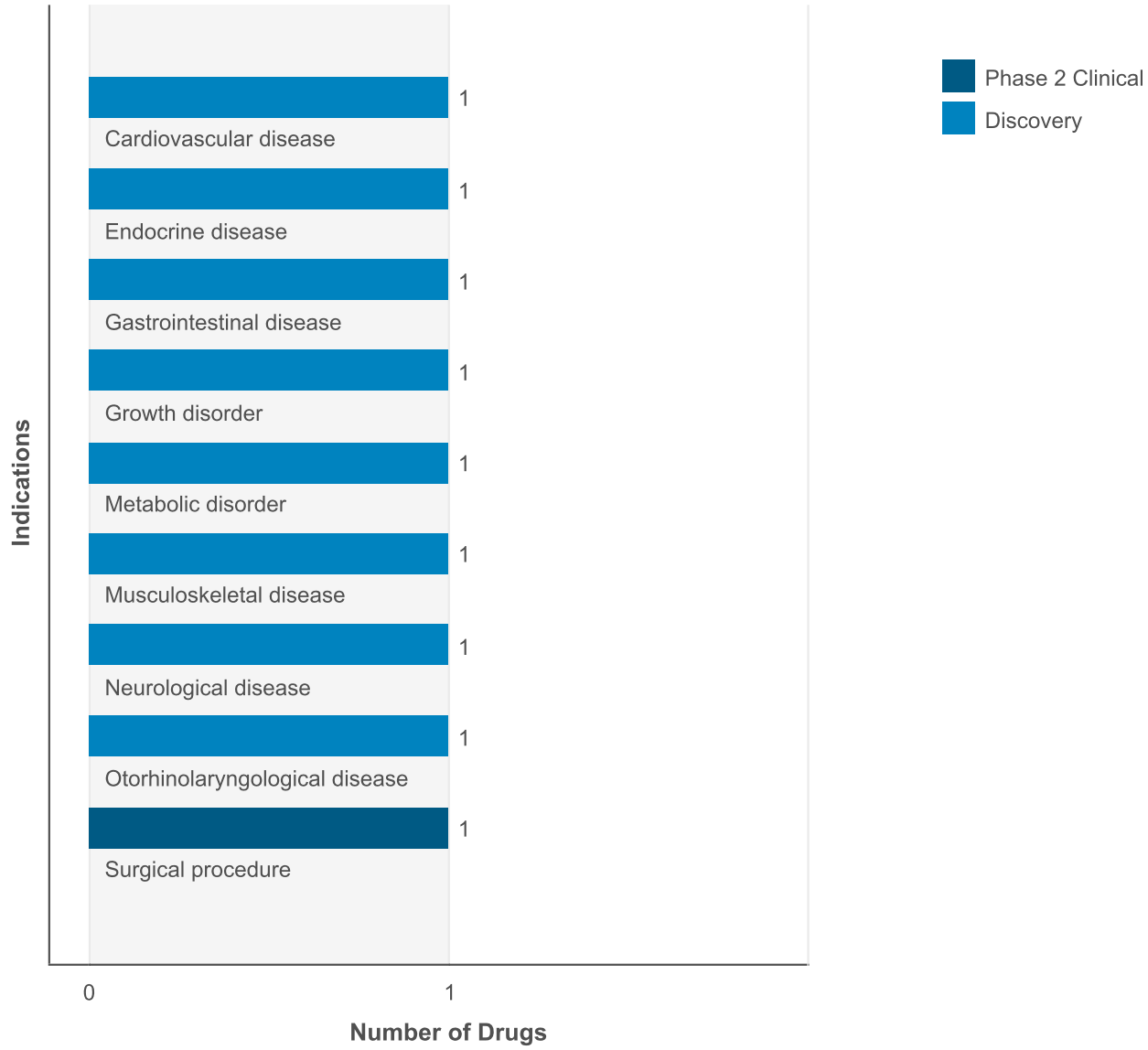
PRODUCT PORTFOLIO SUMMARY

DRUGS

Drugs by Indication

Active Drugs by Indication Chart



Drugs by Indication Table

Indication	Active	Inactive	Total
Musculoskeletal disease	1	3	4
Neurological disease	1	2	3
Growth disorder	1	1	2

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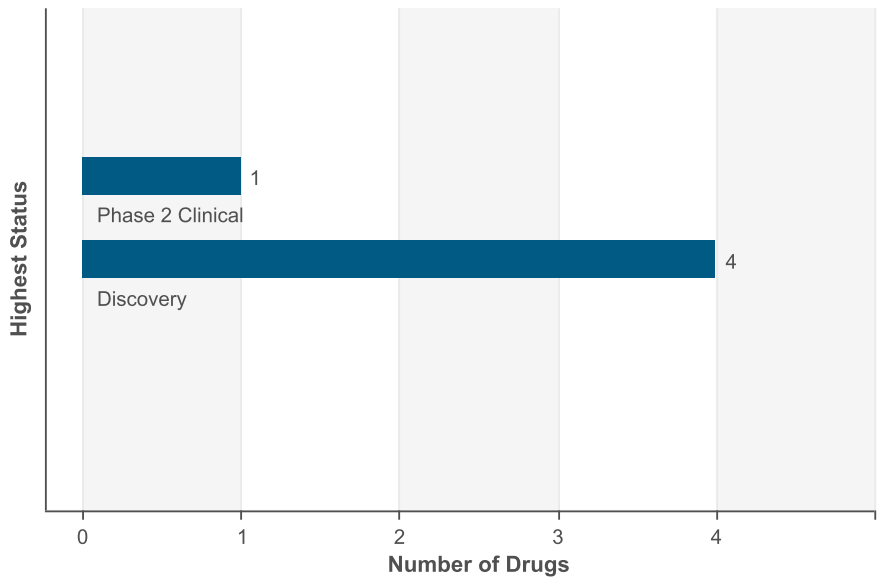
Surgical procedure	1	1	2
Metabolic disorder	1	0	1
Injury	0	1	1
Otorhinolaryngological disease	1	0	1
Neoplasm	0	1	1
Gastrointestinal disease	1	0	1
Endocrine disease	1	0	1
Cardiovascular disease	1	0	1

Drugs by Highest Status

Active Drugs by Highest Status Chart



Drugs by Highest Status Table

Development Status	Number of Drugs
Phase 2 Clinical	1
Discovery	4
Discontinued	1
No Development Reported	5

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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

PATENTS *

Indication	As Owner	As Third Party	Total
Cardiovascular disease	9	0	9
Endocrine disease	10	0	10
Gastrointestinal disease	4	0	4
Genitourinary disease	2	0	2
Growth disorder	4	1	5

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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	12	1	13
Nutritional disorder	6	1	7
Respiratory disease	1	0	1
Infectious disease	1	0	1
Injury	7	1	8
Inflammatory disease	7	0	7
Dermatological disease	6	0	6
Surgical procedure	6	1	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 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	Anticancer, Stem cell modulator, Hematopoietic stimulant
Technologies	Systemic formulation unspecified, Biological therapeutic, Allogenic stem cell therapy, Umbilical cord stem cell therapy, Haematopoietic stem cell therapy
Last Change Date	28-Nov-2012

FT-101

Drug Name	FT-101
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	Heart disease
Target-based Actions	Cardiotrophin-1 ligand
Other Actions	Stem cell stimulator, Cardioprotectant
Technologies	Biological therapeutic, Parenteral formulation unspecified, Protein recombinant
Last Change Date	31-Jan-2013

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FT-201

Drug Name	FT-201
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	Insulin dependent diabetes
Target-based Actions	Periostin stimulator
Other Actions	Langerhans islet cell stimulator, Hypoglycemic agent
Technologies	Biological therapeutic, Parenteral formulation unspecified, Peptide, Protein recombinant
Last Change Date	01-Feb-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	23-Apr-2013

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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

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