

## **GlycoMimetics Inc**

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

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i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.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



TABLE OF CONTENTS

Company Overview..... 5

Company Profile..... 6

Product Portfolio Summary..... 6

Product Portfolio Drugs..... 10

[Return to Table of Contents](#)

# GlycoMimetics Inc

## COMPANY OVERVIEW

Company Name	GlycoMimetics Inc
Parent Company Name	GlycoMimetics Inc
Website	<a href="http://www.glycomimetics.com/">http://www.glycomimetics.com/</a>
Country	US
Number of Drugs in Active Development	5
Number of Inactive Drugs	2
Number of Patents as Owner	20
Number of Patents as Third Party	0
Number of Deals	5
Key Indications	Hematological neoplasm, Inflammatory disease, Acute myelogenous leukemia, Acquired immune deficiency syndrome, Metastasis, Pancreas tumor, Pseudomonas aeruginosa infection, Sickle cell crisis, Thromboembolism, Toxicity
Key Target-based Actions	E-Selectin antagonist, Cell adhesion molecule inhibitor, CXCR4 chemokine antagonist, P-Selectin antagonist, L-Selectin antagonist, CD62E modulator, Dendritic ICAM-3 grabbing nonintegrin 1 inhibitor, Selectin antagonist
Key Technologies	Small molecule therapeutic, Oral formulation, Intravenous formulation, Biological therapeutic, Infusion, Nasal systemic formulation, Peptidomimetic

## COMPANY PROFILE

### SUMMARY

GlycoMimetics Inc (GMI) is active in the field of glycobiology and develops small-molecule drugs that mimic the functions of certain carbohydrates. The company's initial focus is on therapeutics to treat inflammatory diseases and cancer.

### ACQUISITIONS AND SPIN-OFFS

By early 2003, GMI had acquired the assets of GlycoTech Corp, including exclusive rights to 15 issued US patents and numerous small molecules that could have therapeutic potential.

### FINANCIAL

In October 2009, GlycoMimetics raised \$38 million from a venture financing round.

In June 2006, GlycoMimetics raised an additional \$15.4 million from its series B financing. It planned to use the funds for preclinical development of its selectin inhibitors for inflammation and its lectin-binding glycomimetics for infection.

In August 2004, GlycoMimetics raised an additional \$5.1 million from an extension to a series A seed financing, bringing total proceeds to \$9.6 million. The funds would be used to advance the company's research programs.

In May 2003, GMI closed on its initial seed round of venture financing.

[Return to Table of Contents](#)

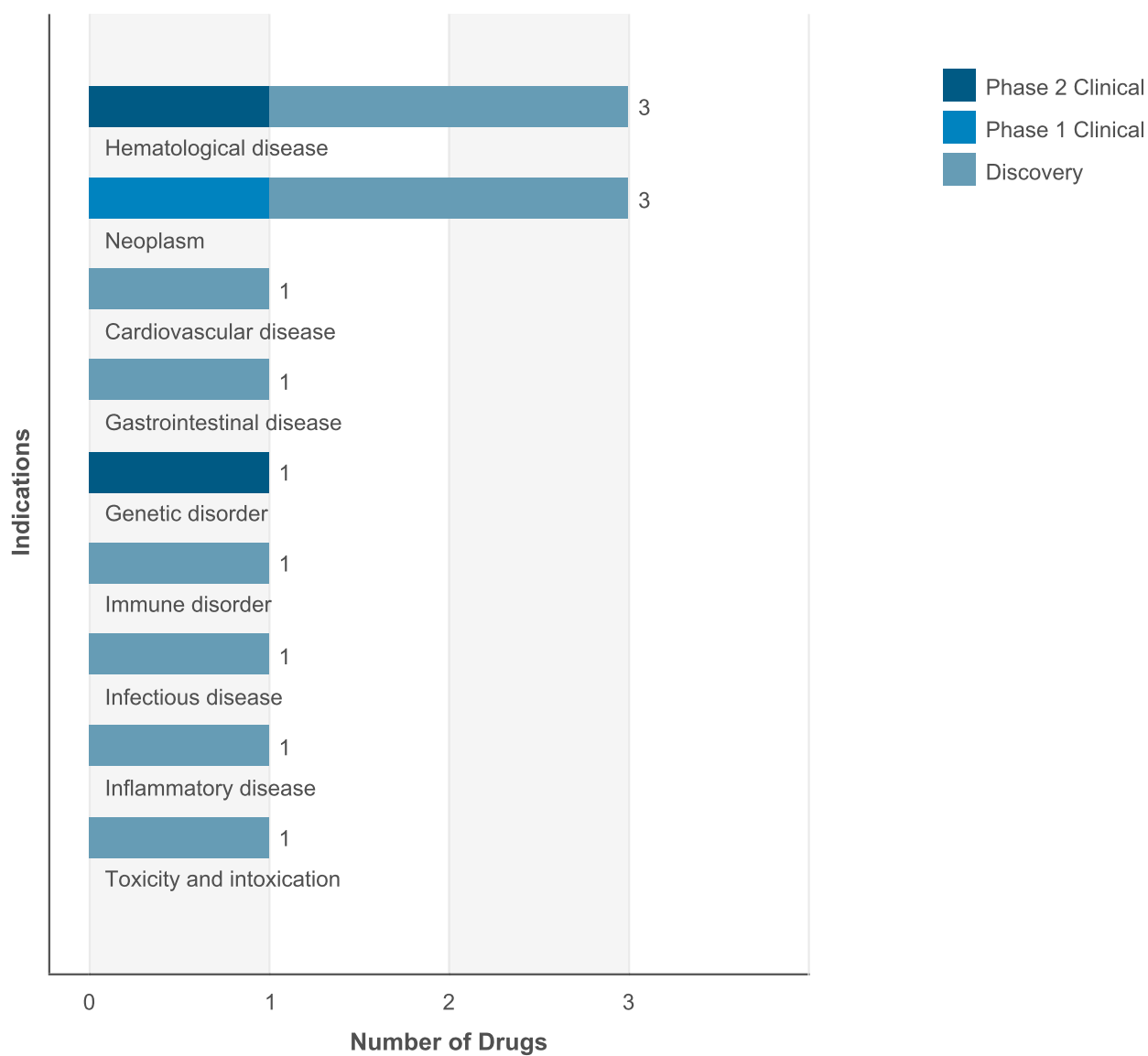


## PRODUCT PORTFOLIO SUMMARY

### DRUGS

#### Drugs by Indication

Active Drugs by Indication Chart



Drugs by Indication Table

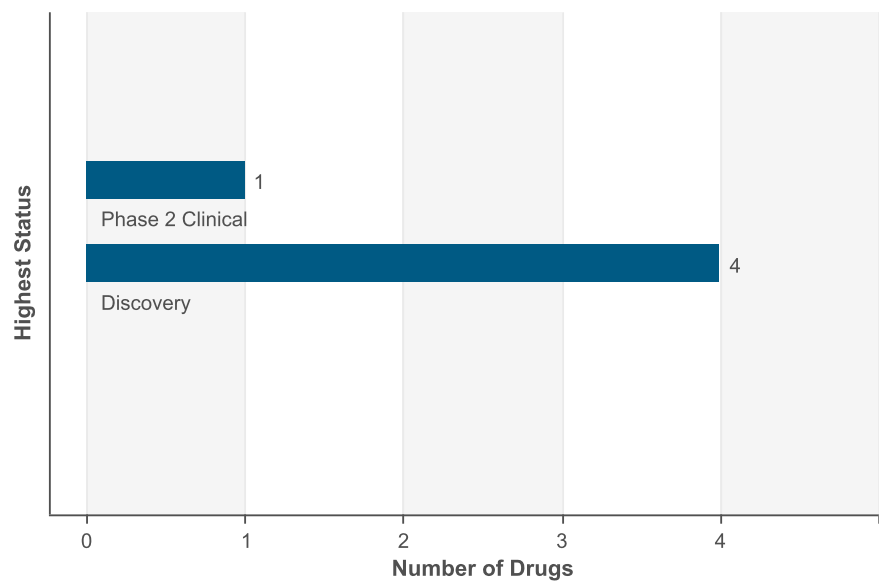
Indication	Active	Inactive	Total
Neoplasm	3	0	3
Inflammatory disease	1	2	3
Hematological disease	3	0	3

[Return to Table of Contents](#)

Immune disorder	1	1	2
Infectious disease	1	1	2
Toxicity and intoxication	1	0	1
Respiratory disease	0	1	1
Cardiovascular disease	1	0	1
Genetic disorder	1	0	1
Gastrointestinal 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
No Development Reported	2

[Return to Table of Contents](#)

## DEALS

Deal Type	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Drug - Discovery/Design	0	0	1	0	1
Drug - Funding	1	0	0	0	1
Drug - Early Research/Development	1	0	0	0	1
Drug - Development/Commercialization License	1	0	0	0	1
Drug - Development Services	0	0	1	0	1

## CLINICAL TRIALS

### Trials by Condition Studied

Condition Studied	Ongoing	All
Hematological disease	1	3
Genetic disorder	1	3

### Trials by Phase

Phase	Ongoing	All
Phase 2	1	1
Phase 1	0	3

### 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	5	0	5
Endocrine disease	3	0	3
Gastrointestinal disease	4	0	4
Hematological disease	7	0	7
Degeneration	1	0	1

[Return to Table of Contents](#)





Immune disorder	10	0	10
Musculoskeletal disease	2	0	2
Neoplasm	8	0	8
Ocular disease	1	0	1
Genetic disorder	3	0	3
Metabolic disorder	3	0	3
Neurological disease	2	0	2
Respiratory disease	3	0	3
Infectious disease	7	0	7
Injury	2	0	2
Inflammatory disease	12	0	12
Dermatological disease	5	0	5
Ulcer	1	0	1

\* 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

### rivipansel sodium (asthma/sickle cell anemia/hematological neoplasm), GlycoMimetics/ Pfizer

<b>Drug Name</b>	rivipansel sodium (asthma/sickle cell anemia/hematological neoplasm), GlycoMimetics/ Pfizer
<b>Key Synonyms</b>	rivipansel sodium
<b>Originator Company</b>	GlycoMimetics Inc
<b>Active Companies</b>	GlycoMimetics Inc, Pfizer Inc
<b>Inactive Companies</b>	
<b>Highest Status</b>	Phase 2 Clinical
<b>Active Indications</b>	Toxicity, Sickle cell crisis, Hematological neoplasm
<b>Target-based Actions</b>	E-Selectin antagonist, L-Selectin antagonist, P-Selectin antagonist, Cell adhesion molecule inhibitor
<b>Other Actions</b>	Anti-inflammatory, Chemoprotectant, Platelet aggregation inhibitor, Anticancer
<b>Technologies</b>	Intravenous formulation, Infusion, Small molecule therapeutic
<b>Last Change Date</b>	17-Apr-2013

### GMI-1051

<b>Drug Name</b>	GMI-1051
<b>Key Synonyms</b>	
<b>Originator Company</b>	GlycoMimetics Inc
<b>Active Companies</b>	GlycoMimetics Inc
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Pseudomonas aeruginosa infection
<b>Target-based Actions</b>	
<b>Other Actions</b>	Antibacterial, Bacterial pathogenicity factor modulator, Unspecified drug target
<b>Technologies</b>	Nasal systemic formulation, Small molecule therapeutic
<b>Last Change Date</b>	13-Jul-2012

[Return to Table of Contents](#)

**GMI-1271**

<b>Drug Name</b>	GMI-1271
<b>Key Synonyms</b>	
<b>Originator Company</b>	GlycoMimetics Inc
<b>Active Companies</b>	GlycoMimetics Inc
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Thromboembolism, Pancreas tumor, Acute myelogenous leukemia, Metastasis
<b>Target-based Actions</b>	E-Selectin antagonist
<b>Other Actions</b>	Anti-inflammatory, Anticancer
<b>Technologies</b>	Oral formulation, Small molecule therapeutic
<b>Last Change Date</b>	20-Dec-2012

**dual E-selectin and CXCR4 inhibitors (hematological cancer/inflammation), GlycoMimetics**

<b>Drug Name</b>	dual E-selectin and CXCR4 inhibitors (hematological cancer/inflammation), GlycoMimetics
<b>Key Synonyms</b>	
<b>Originator Company</b>	GlycoMimetics Inc
<b>Active Companies</b>	GlycoMimetics Inc
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Hematological neoplasm, Inflammatory disease
<b>Target-based Actions</b>	E-Selectin antagonist, CXCR4 chemokine antagonist, Cell adhesion molecule inhibitor
<b>Other Actions</b>	Anticancer chemosensitizer, Anti-inflammatory
<b>Technologies</b>	Small molecule therapeutic
<b>Last Change Date</b>	03-Aug-2012

[Return to Table of Contents](#)


## glycomimetic AIDS vaccine, GlycoMimetics/ International AIDS Vaccine Initiative

<b>Drug Name</b>	glycomimetic AIDS vaccine, GlycoMimetics/ International AIDS Vaccine Initiative
<b>Key Synonyms</b>	
<b>Originator Company</b>	GlycoMimetics Inc
<b>Active Companies</b>	International AIDS Vaccine Initiative, GlycoMimetics Inc
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Acquired immune deficiency syndrome
<b>Target-based Actions</b>	
<b>Other Actions</b>	Unspecified drug target, Therapeutic vaccine, Prophylactic vaccine, Antiviral
<b>Technologies</b>	Biological therapeutic
<b>Last Change Date</b>	18-Jan-2013

[Return to Table of Contents](#)

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[Return to Table of Contents](#)

