

GlycoMimetics Inc

CORTELLIS COMPANY DETAILED PIPELINE REPORT

A comprehensive coverage of the the company's drug pipeline portfolio including detailed product records.

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i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.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

COMPANY OVERVIEW

| | |
|--|---|
| Company Name | GlycoMimetics Inc |
| Parent Company Name | GlycoMimetics Inc |
| Website | http://www.glycomimetics.com/ |
| Country | US |
| Number of Drugs in Active Development | 5 |
| Number of Inactive Drugs | 2 |
| Number of Patents as Owner | 24 |
| Number of Patents as Third Party | 0 |
| Number of Deals | 7 |
| Key Indications | Inflammatory disease,Cancer,Acute myelogenous leukemia,Hematological neoplasm,Thromboembolism,Cardiovascular disease,Deep vein thrombosis,Metastasis,Pancreas tumor,Pseudomonas aeruginosa infection,Sickle cell crisis |
| Key Target-based Actions | E-Selectin antagonist,Cell adhesion molecule inhibitor,P-Selectin antagonist,CXCR4 chemokine antagonist,L-Selectin antagonist,Dendritic ICAM-3 grabbing nonintegrin 1 inhibitor,Selectin modulator,Unspecified cell adhesion molecule inhibitor |
| Key Technologies | Small molecule therapeutic,Intravenous formulation,Oral 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.

COMPANY LOCATION

In August 2014, the company's headquarters was shifted to Medical Center Drive in Rockville, Maryland.

FINANCIAL

In October 2013, GlycoMimetics filed a registration statement on Form S-1 with the US SEC for a proposed initial public offering of shares of its common stock. By that time, the company had applied to list its common stock on the NASDAQ Global Market under the ticker symbol 'GLYC'. In January 2014, the company priced the offering of 7,000,000 common stock shares at \$8.00 per share and granted a 30-day option to the underwriters to purchase up to an additional 1,050,000 common stock shares. At that time, the offering was expected to close on January 15, 2014; later that month, the offering of 8,050,000 shares was closed. The company raised net proceeds of approximately \$57.4 million.

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.

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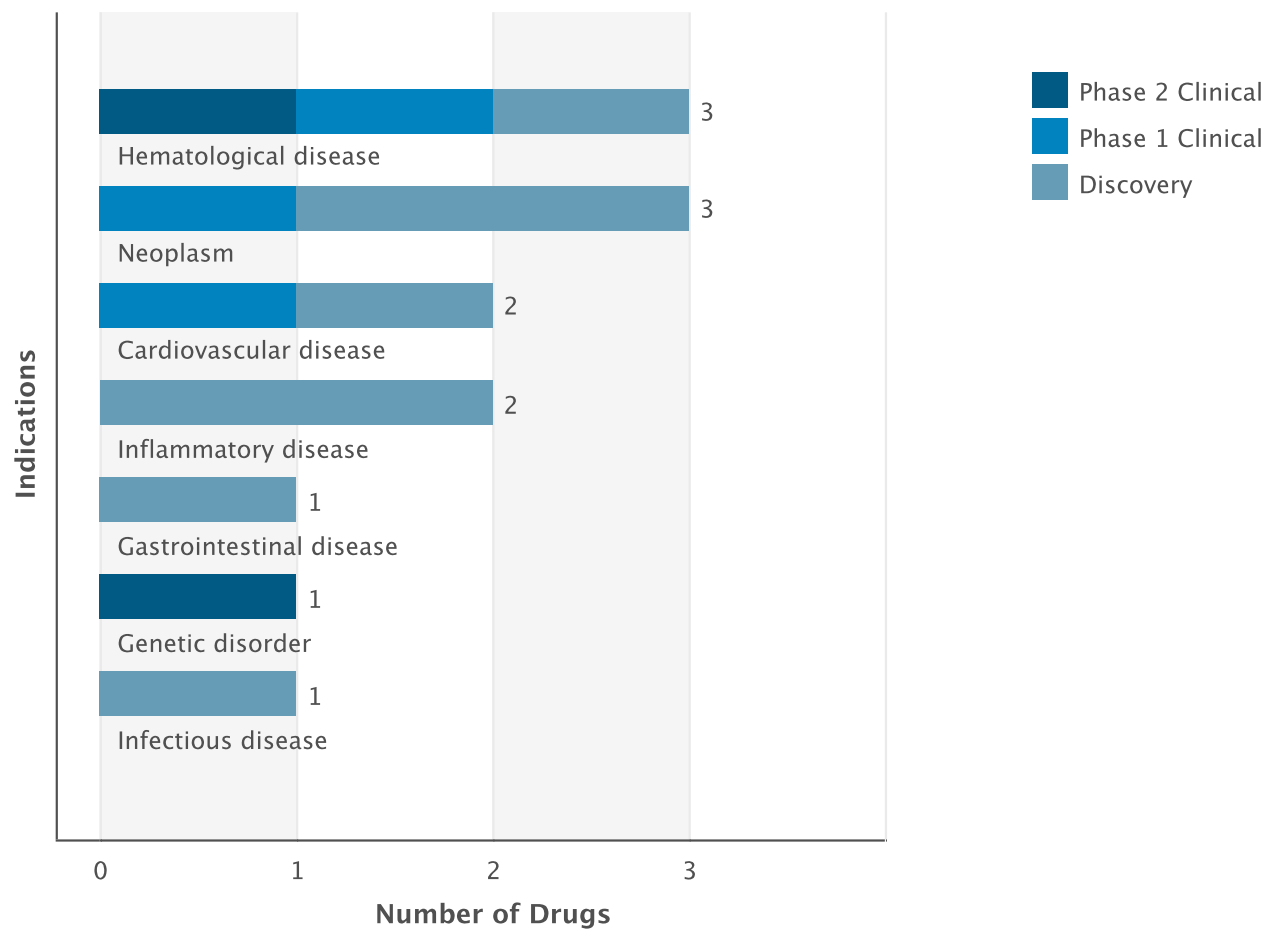
In May 2003, GMI closed on its initial seed round of venture financing.

PRODUCT PORTFOLIO SUMMARY

DRUGS

Drugs by Indication

Active Drugs by Indication Chart

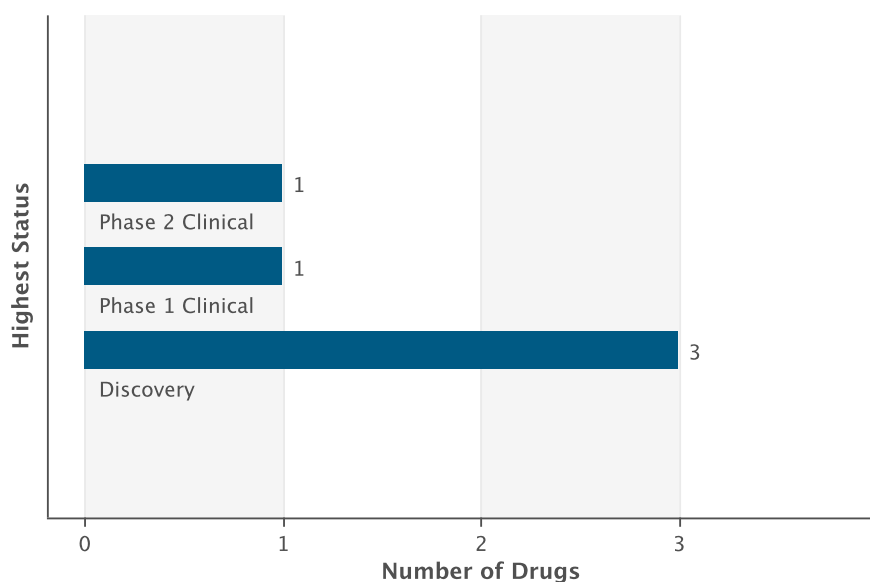


Drugs by Indication Table

| Indication | Active | Inactive | Total |
|--------------------------|--------|----------|-------|
| Neoplasm | 3 | 1 | 4 |
| Hematological disease | 3 | 0 | 3 |
| Inflammatory disease | 2 | 1 | 3 |
| Cardiovascular disease | 2 | 0 | 2 |
| Immune disorder | 0 | 2 | 2 |
| Infectious disease | 1 | 1 | 2 |
| Genetic disorder | 1 | 0 | 1 |
| Respiratory disease | 0 | 1 | 1 |
| Gastrointestinal disease | 1 | 0 | 1 |

Drugs by Highest Status

Active Drugs by Highest Status Chart



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Drugs by Highest Status Table

| Development Status | Number of Drugs |
|-------------------------|-----------------|
| Phase 2 Clinical | 1 |
| Phase 1 Clinical | 1 |
| Discovery | 3 |
| No Development Reported | 2 |

DEALS

| Deal Type | Principal | | Partner | | Total |
|--|-----------|----------|---------|----------|-------|
| | Active | Inactive | Active | Inactive | |
| Patent - Exclusive Rights | 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 | 3 | 0 | 3 |

CLINICAL TRIALS

Trials by Condition Studied

| Condition Studied | Ongoing | All |
|-----------------------|---------|-----|
| Hematological disease | 1 | 3 |
| Genetic disorder | 0 | 2 |
| Neoplasm | 1 | 1 |

Trials by Phase

| Phase | Ongoing | All |
|---------|---------|-----|
| Phase 2 | 0 | 1 |
| Phase 1 | 2 | 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 | 10 | 0 | 10 |
| Endocrine disease | 3 | 0 | 3 |
| Gastrointestinal disease | 4 | 0 | 4 |
| Hematological disease | 12 | 0 | 12 |
| Degeneration | 1 | 0 | 1 |
| Immune disorder | 10 | 0 | 10 |
| Musculoskeletal disease | 2 | 0 | 2 |
| Neoplasm | 12 | 0 | 12 |
| 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 | 6 | 0 | 6 |
| Injury | 2 | 0 | 2 |
| Inflammatory disease | 14 | 0 | 14 |
| 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.

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PRODUCT PORTFOLIO DRUG PIPELINE DETAIL

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

rivipansel sodium

rivipansel sodium SNAPSHOT

| | |
|-----------------------------|--|
| Drug Name | rivipansel sodium |
| Key Synonyms | rivipansel sodium;rivipansel |
| Originator Company | GlycoMimetics Inc |
| Active Companies | GlycoMimetics Inc;Pfizer Inc |
| Inactive Companies | |
| Highest Status | Phase 2 Clinical |
| Active Indications | Sickle cell crisis |
| Target-based Actions | Cell adhesion molecule inhibitor;E-Selectin antagonist;P-Selectin antagonist;L-Selectin antagonist |
| Other Actions | Anti-inflammatory;Chemoprotectant;Anticancer;Platelet aggregation inhibitor |
| Technologies | Intravenous formulation;Infusion;Small molecule therapeutic |
| Last Change Date | 30-Oct-2014 |

rivipansel sodium DEVELOPMENT PROFILE

SUMMARY

GlycoMimetics and licensee Pfizer are developing rivipansel sodium (GMI-1070, PF-06460031, structure shown), the lead from a series of heterobifunctional glycomimetic pan-selectin inhibitors, for the potential iv treatment of vaso-occlusive crisis associated with sickle cell disease.

In May 2010, a phase II trial for vaso-occlusive crisis of sickle cell disease began; in April 2013, positive topline data were reported. In July 2014, Pfizer had reached an agreement with the US FDA under a special protocol assessment (SPA) for a phase III trial for vaso-occlusive crisis of sickle cell disease ; in August 2014, the phase III trial was to start in September 2014. In September 2014, the trial initiation was delayed due to the manufacturing development issue as notified by the Pfizer and the company would provide a timeframe regarding the initiation of the trial to GlycoMimetics.

GlycoMimetics was previously developing the drug for other indications. In October 2009, the drug was listed as in phase I development for hematological cancers by GlycoMimetics ; this was still the case in February 2012. However, no further development for this indication has since been reported. GlycoMimetics was initially also investigating rivipansel sodium for the potential treatment of asthma; however, no development has been reported in asthma.

rivipansel sodium DEVELOPMENT STATUS

CURRENT DEVELOPMENT STATUS

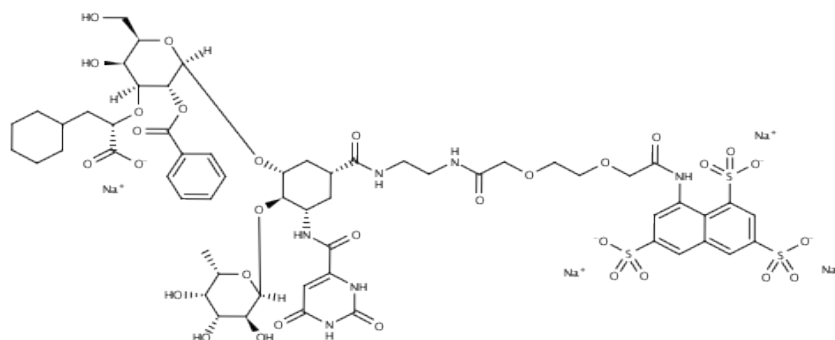
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| Company | Indication | Country | Development Status | Date |
|-------------------|------------------------|---------|-------------------------|-------------|
| GlycoMimetics Inc | Sickle cell crisis | Canada | Phase 2 Clinical | 24-May-2010 |
| GlycoMimetics Inc | Sickle cell crisis | US | Phase 2 Clinical | 31-May-2009 |
| Pfizer Inc | Sickle cell crisis | Canada | Phase 2 Clinical | 11-Oct-2011 |
| Pfizer Inc | Sickle cell crisis | US | Phase 2 Clinical | 11-Oct-2011 |
| GlycoMimetics Inc | Asthma | US | No Development Reported | 22-Oct-2009 |
| GlycoMimetics Inc | Hematological neoplasm | US | No Development Reported | 31-Aug-2013 |

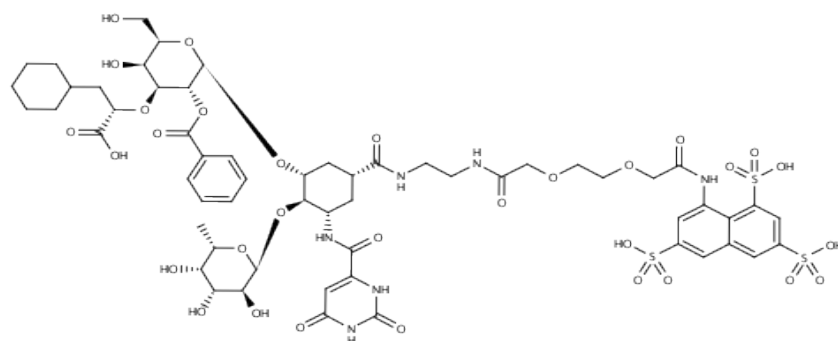
rivipansel sodium CHEMICAL STRUCTURES

| CAS Registry Number: | Confidence Level: |
|----------------------|-------------------|
| 1189037-60-2 | 2 |



| Name | Type |
|-------------------|---------------|
| rivipansel sodium | USAN |
| GMI-1070 | Research Code |
| PF-06460031 | Research Code |

| CAS Registry Number: | Confidence Level: |
|----------------------|-------------------|
| 927881-99-0 | 2 |



| Name | Type |
|------------|-----------|
| rivipansel | INN; USAN |

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rivipansel sodium DRUG NAMES

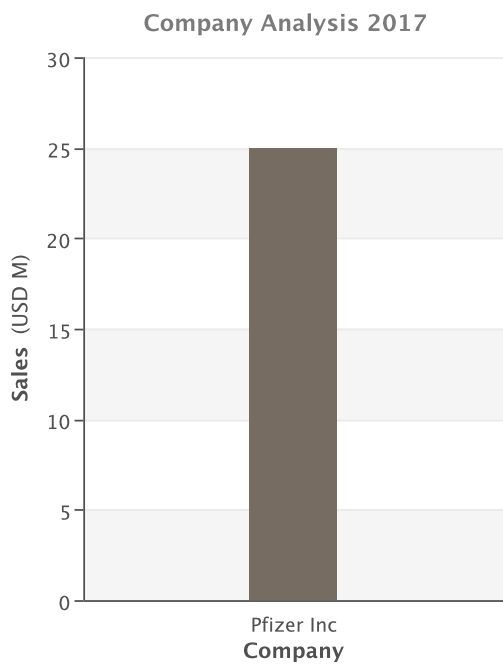
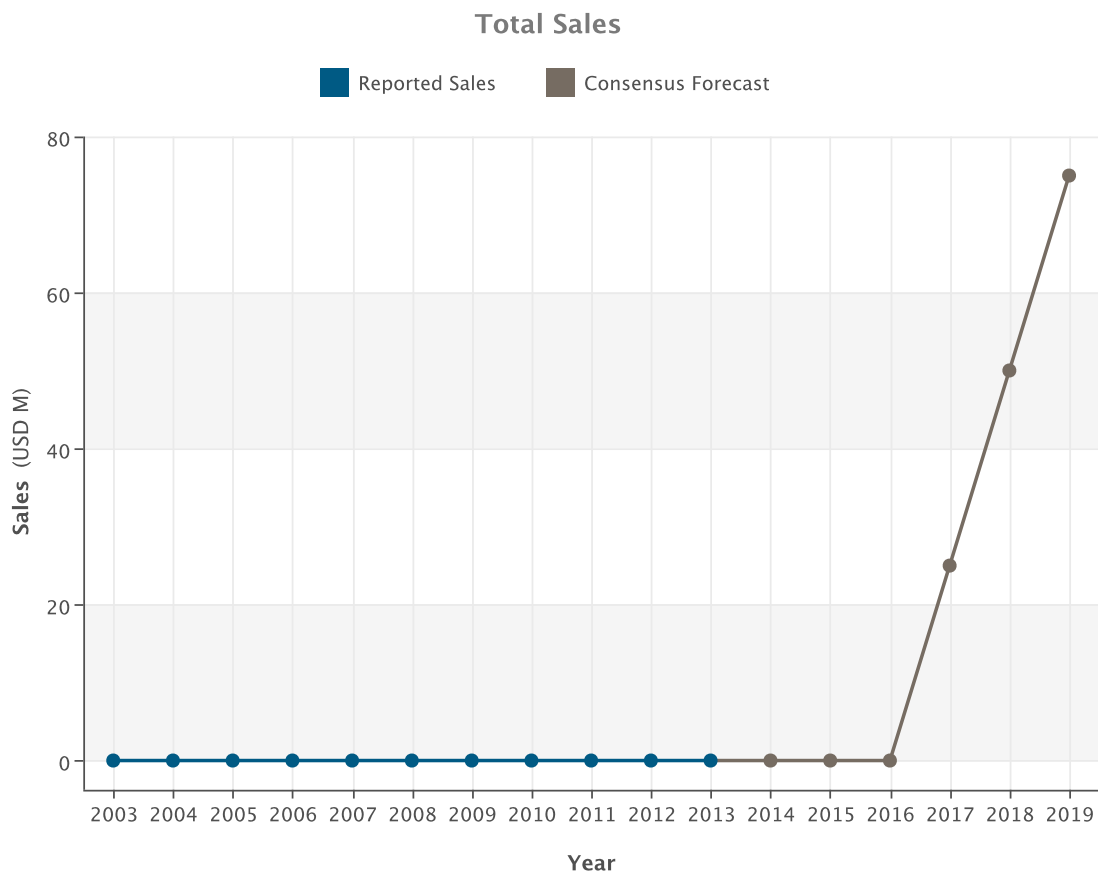
| Names | Type |
|---|---------------|
| rivipansel sodium | USAN |
| GMI-1040 series | |
| heterobifunctional glycomimetic pan-selectin inhibitors (small molecule therapeutic), GlycoMimetics/ Pfizer | |
| heterobifunctional glycomimetic pan-selectin inhibitors (small molecule therapeutic), GlycoMimetics | |
| selectin inhibitors (asthma/sickle cell anemia/hematological neoplasm), GlycoMimetics/ Pfizer | |
| PF-06460031 | Research Code |
| rivipansel sodium (sickle cell crisis), GlycoMimetics/ Pfizer | |
| selectin inhibitors (asthma/sickle cell anemia/hematological neoplasm), GlycoMimetics | |
| GMI-1010 | Research Code |
| GMI-1070 | Research Code |
| glyosin, GlycoMimetics | |
| GMI-1077 | Research Code |
| rivipansel | USAN, INN |
| GMI-1011 | Research Code |

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rivipansel sodium SALES AND FORECASTS

CHARTS



COMMENTARY

CONSENSUS SALES INFORMATION

Consensus forecast data for Pfizer are presented.

REGIONAL DEVELOPMENT AND MARKETING RIGHTS

In October 2011, Pfizer acquired an exclusive worldwide license from GlycoMimetics for rivipansel sodium for vaso-occlusive crisis associated with sickle cell disease and other indications. Under the terms of the agreement, GlycoMimetics would remain responsible for completion of the ongoing phase II trial under Pfizer's oversight, and Pfizer would then assume all further development and commercialization responsibilities [1229751].

rivipansel sodium CLINICAL TRIALS

Trials by Phase and Condition Studied

| Phase 4 Clinical | | Phase 3 Clinical | | Phase 2 Clinical | | Phase 1 Clinical | | Phase Unspecified | | Total | |
|--------------------|-----|------------------|-----|------------------|-----|------------------|-----|-------------------|-----|----------|-----|
| On-going | All | On-going | All | On-going | All | On-going | All | On-going | All | On-going | All |
| Sickle cell anemia | | | | | | | | | | | |
| 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 3 |
| Sickle cell crisis | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |

Total Trials by Phase and Status

| Phase 4 Clinical | | Phase 3 Clinical | | Phase 2 Clinical | | Phase 1 Clinical | | Phase Unspecified | | Total | |
|---------------------------|-----|------------------|-----|------------------|-----|------------------|-----|-------------------|-----|----------|-----|
| On-going | All | On-going | All | On-going | All | On-going | All | On-going | All | On-going | All |
| Total by Phase and Status | | | | | | | | | | | |
| 0 | 0 | 1 | 1 | 0 | 1 | 0 | 4 | 0 | 0 | 1 | 6 |

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)

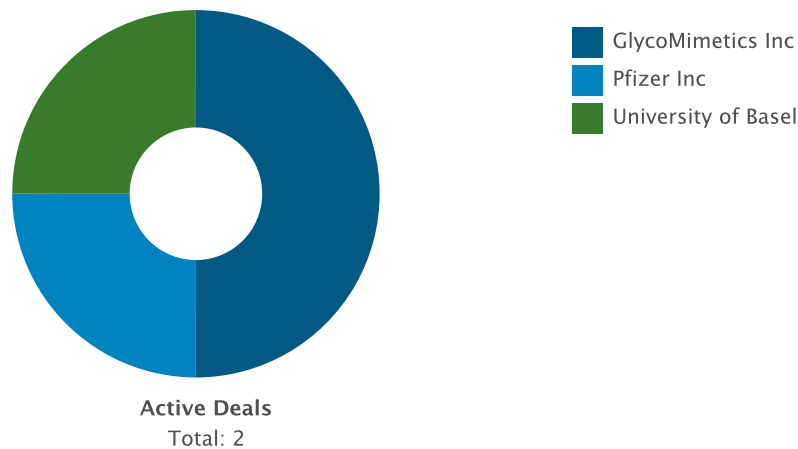
Phase 1 Clinical

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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DEALS

Deals by Parent Company Chart

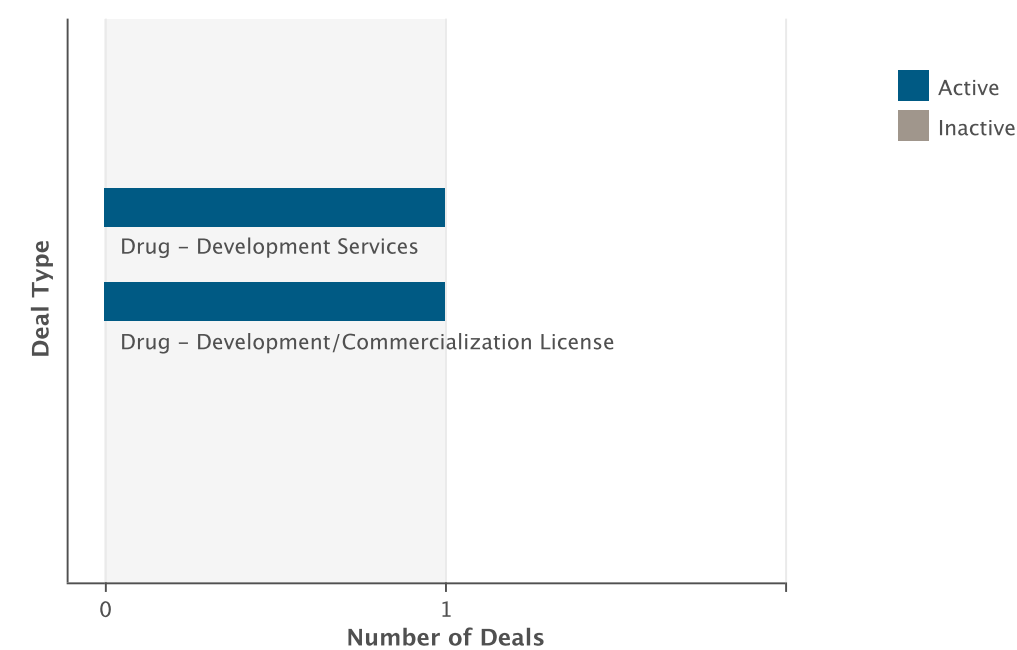


Deals by Parent Company Table

| Company Name | Principal | | Partner | | Total |
|---------------------|-----------|----------|---------|----------|-------|
| | Active | Inactive | Active | Inactive | |
| GlycoMimetics Inc | 1 | 0 | 1 | 0 | 2 |
| University of Basel | 1 | 0 | 0 | 0 | 1 |
| Pfizer Inc | 0 | 0 | 1 | 0 | 1 |

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Deals by Type Chart



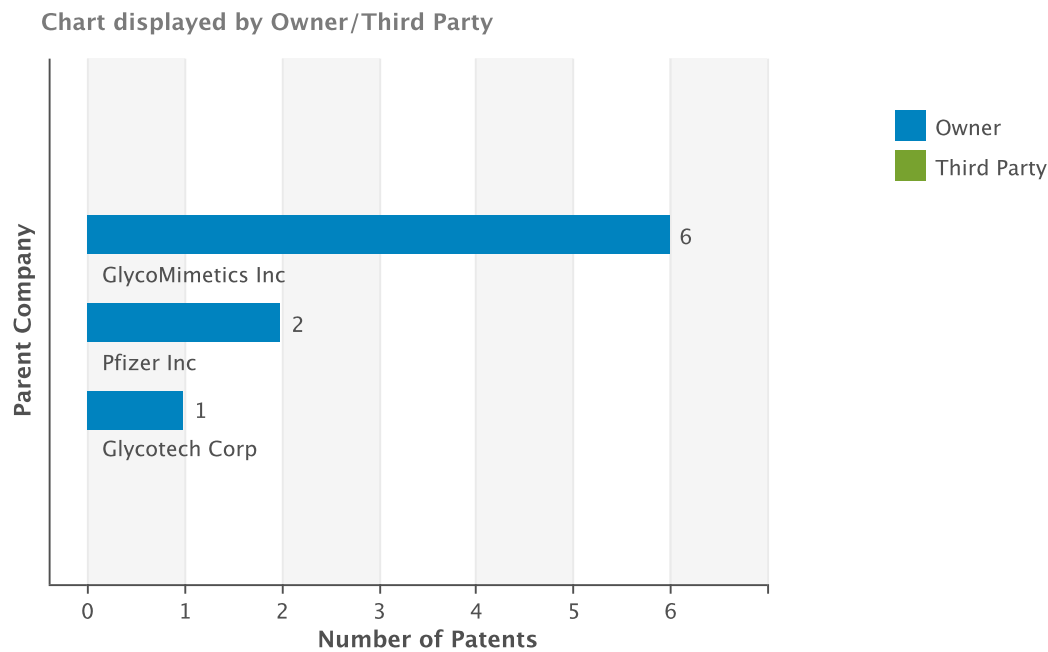
Deals by Type Table

| Deal Type | Active | Inactive | Total |
|--|--------|----------|-------|
| Drug - Development/Commercialization License | 1 | 0 | 1 |
| Drug - Development Services | 1 | 0 | 1 |

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PATENTS

Patents by Parent Company Chart

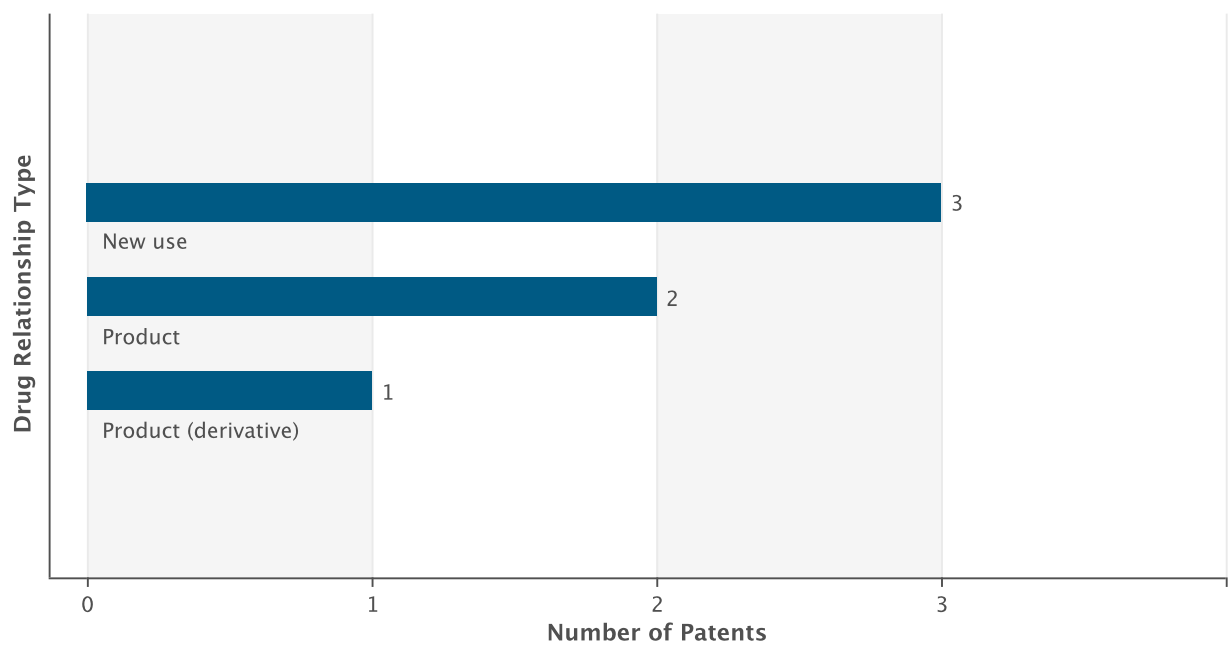


Patents by Parent Company Table

| Company Name | As Owner | As Third Party | Total |
|-------------------|----------|----------------|-------|
| GlycoMimetics Inc | 6 | 0 | 6 |
| Pfizer Inc | 2 | 0 | 2 |
| Glycotech Corp | 1 | 0 | 1 |

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Patents by Drug Relationship Type Chart



Patents by Drug Relationship Type Table

| Drug Relationship | Total |
|----------------------|-------|
| New use | 3 |
| Product | 2 |
| Product (derivative) | 1 |

GMI-1271

GMI-1271 SNAPSHOT

| | |
|----------------------|---|
| Drug Name | GMI-1271 |
| Key Synonyms | |
| Originator Company | GlycoMimetics Inc |
| Active Companies | GlycoMimetics Inc |
| Inactive Companies | |
| Highest Status | Phase 1 Clinical |
| Active Indications | Deep vein thrombosis;Metastasis;Acute myelogenous leukemia;Pancreas tumor;Thromboembolism |
| Target-based Actions | E-Selectin antagonist |
| Other Actions | Anticancer;Anti-inflammatory |
| Technologies | Oral formulation;Intravenous formulation;Small molecule therapeutic |
| Last Change Date | 12-Dec-2014 |

GMI-1271 DEVELOPMENT PROFILE

SUMMARY

GlycoMimetics is developing GMI-1271, an E-selectin antagonist with a companion diagnostic, for the potential treatment of cancers that are associated with elevated risk of metastasis and thrombosis including pancreatic cancer and acute myelogenous leukemia (AML) and other blood disorders,,. In June 2014, a phase I trial for AML was initiated ; in November 2014, topline results were reported. At that time, the company expected to initiate a phase I/II trial in AML in the first quarter of 2015. In November 2014, a phase I trial was initiated in healthy subjects in the US. At that time, the trial was expected to complete in September 2016. In October 2014, the company was seeking to out license the drug.

The company was previously investigating small molecule glycomimetic E-selectin antagonists, for the potential oral treatment of diabetes related vascular inflammation. In May 2009, the program was in lead optimization stage ; however, in December 2011, no further development was reported.

GMI-1271 DEVELOPMENT STATUS

CURRENT DEVELOPMENT STATUS

| Company | Indication | Country | Development Status | Date |
|-------------------|----------------------------|---------|--------------------|-------------|
| GlycoMimetics Inc | Acute myelogenous leukemia | US | Phase 1 Clinical | 19-Jun-2014 |
| GlycoMimetics Inc | Deep vein thrombosis | US | Phase 1 Clinical | 04-Nov-2014 |
| GlycoMimetics Inc | Metastasis | US | Discovery | 03-Aug-2012 |
| GlycoMimetics Inc | Pancreas tumor | US | Discovery | 03-Aug-2012 |

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| Company | Indication | Country | Development Status | Date |
|-------------------|---------------------|---------|-------------------------|-------------|
| GlycoMimetics Inc | Thromboembolism | US | Discovery | 03-Aug-2012 |
| GlycoMimetics Inc | Diabetic angiopathy | US | No Development Reported | 28-Dec-2011 |

GMI-1271 DRUG NAMES

| Names | Type |
|--|---------------|
| GMI-1271 | Research Code |
| E-selectin antagonists (metastasis/pancreas cancer/thromboembolism), GlycoMimetics | |
| E-Selectin antagonists (oral, diabetic angiopathy), GlycoMimetics | |

GMI-1271 CLINICAL TRIALS

Trials by Phase and Condition Studied

| Phase 4 Clinical | | Phase 3 Clinical | | Phase 2 Clinical | | Phase 1 Clinical | | Phase Unspecified | | Total | |
|----------------------------|-----|------------------|-----|------------------|-----|------------------|-----|-------------------|-----|----------|-----|
| On-going | All | On-going | All | On-going | All | On-going | All | On-going | All | On-going | All |
| Acute myelogenous leukemia | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |

Total Trials by Phase and Status

| Phase 4 Clinical | | Phase 3 Clinical | | Phase 2 Clinical | | Phase 1 Clinical | | Phase Unspecified | | Total | |
|---------------------------|-----|------------------|-----|------------------|-----|------------------|-----|-------------------|-----|----------|-----|
| On-going | All | On-going | All | On-going | All | On-going | All | On-going | All | On-going | All |
| Total by Phase and Status | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 2 | 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

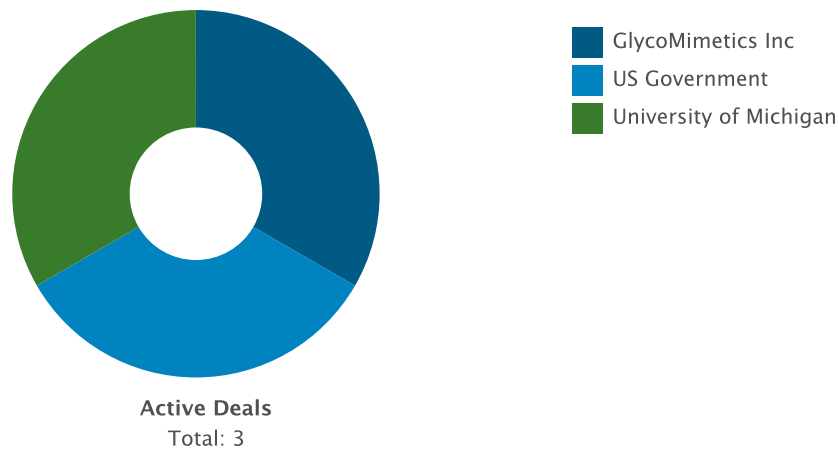
Includes Phase 1, Phase 1a, Phase 1, Phase 1/2 (where enrolment count is under 100 or not specified), Phase 0

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GMI-1271 DEALS AND PATENTS

DEALS

Deals by Parent Company Chart

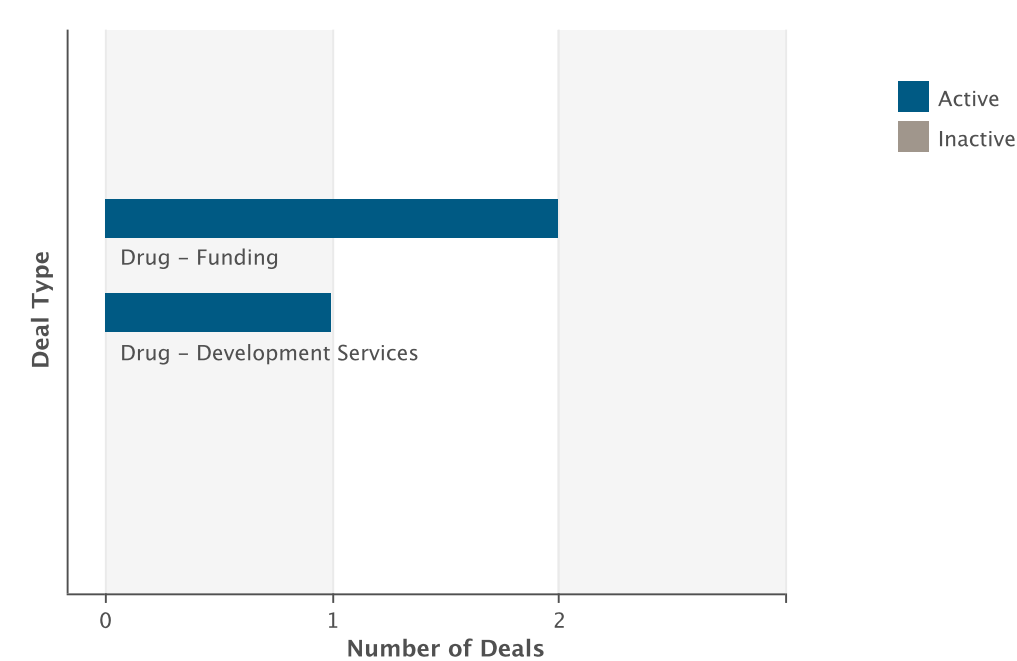


Deals by Parent Company Table

| Company Name | Principal | | Partner | | Total |
|------------------------|-----------|----------|---------|----------|-------|
| | Active | Inactive | Active | Inactive | |
| US Government | 0 | 0 | 2 | 0 | 2 |
| University of Michigan | 2 | 0 | 0 | 0 | 2 |
| GlycoMimetics Inc | 1 | 0 | 1 | 0 | 2 |

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Deals by Type Chart



Deals by Type Table

| Deal Type | Active | Inactive | Total |
|-----------------------------|--------|----------|-------|
| Drug - Funding | 2 | 0 | 2 |
| Drug - Development Services | 1 | 0 | 1 |

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GMI-1051

GMI-1051 SNAPSHOT

| | |
|----------------------|--|
| Drug Name | GMI-1051 |
| Key Synonyms | |
| Originator Company | GlycoMimetics Inc |
| Active Companies | GlycoMimetics Inc |
| Inactive Companies | |
| Highest Status | Discovery |
| Active Indications | Pseudomonas aeruginosa infection |
| Target-based Actions | |
| Other Actions | Unspecified drug target;Antibacterial;Bacterial pathogenicity factor modulator |
| Technologies | Nasal systemic formulation;Small molecule therapeutic |
| Last Change Date | 12-Nov-2014 |

GMI-1051 DEVELOPMENT PROFILE

SUMMARY

GlycoMimetics is investigating GMI-1051, a small molecule PA-I galactophilic lectin (PA-IL) and fucose-binding lectin (PA-IIL) binding agent, from a series of nasally administered, lectin virulence factor-binding compounds, for the potential treatment or prevention of infections caused by *Pseudomonas aeruginosa* in cystic fibrosis (CF) patients,. In May 2009, preclinical studies had begun . At that time, the company anticipated obtaining additional efficacy data and the initiation of clinical trials. In October 2009, the company was planning to develop GMI-1051 as an antibiotic adjunctive therapy . In February 2012, GMI-1051 was listed as being in preclinical development ; in January 2014, this was still the case. In June 2011, the company was seeking to outlicense the drug.

GMI-1051 DEVELOPMENT STATUS

CURRENT DEVELOPMENT STATUS

| Company | Indication | Country | Development Status | Date |
|-------------------|---|---------|--------------------|-------------|
| GlycoMimetics Inc | <i>Pseudomonas aeruginosa</i> infection | US | Discovery | 22-Jun-2003 |

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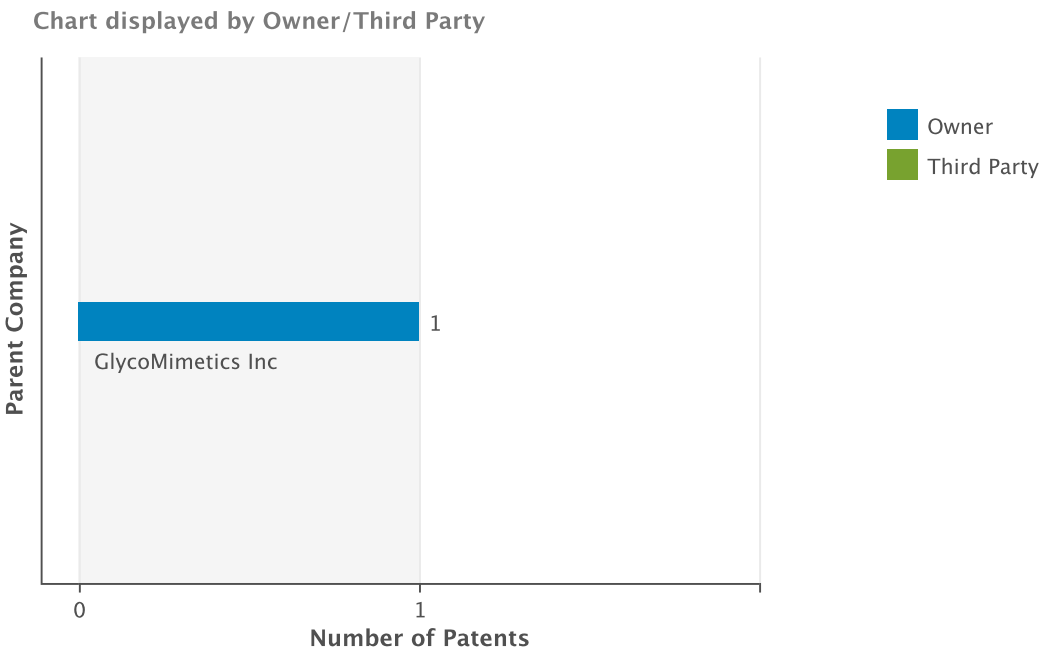
GMI-1051 DRUG NAMES

| Names | Type |
|---|---------------|
| antibacterial (Pseudomonas aeruginosa), GlycoMimetics | |
| GMI-1051 | Research Code |
| lectin antagonists (anti-infectives), GlycoMimetics | |
| lectin-binding glycomimetics (P aeruginosa infections), GlycoMimetics | |

GMI-1051 DEALS AND PATENTS

PATENTS

Patents by Parent Company Chart

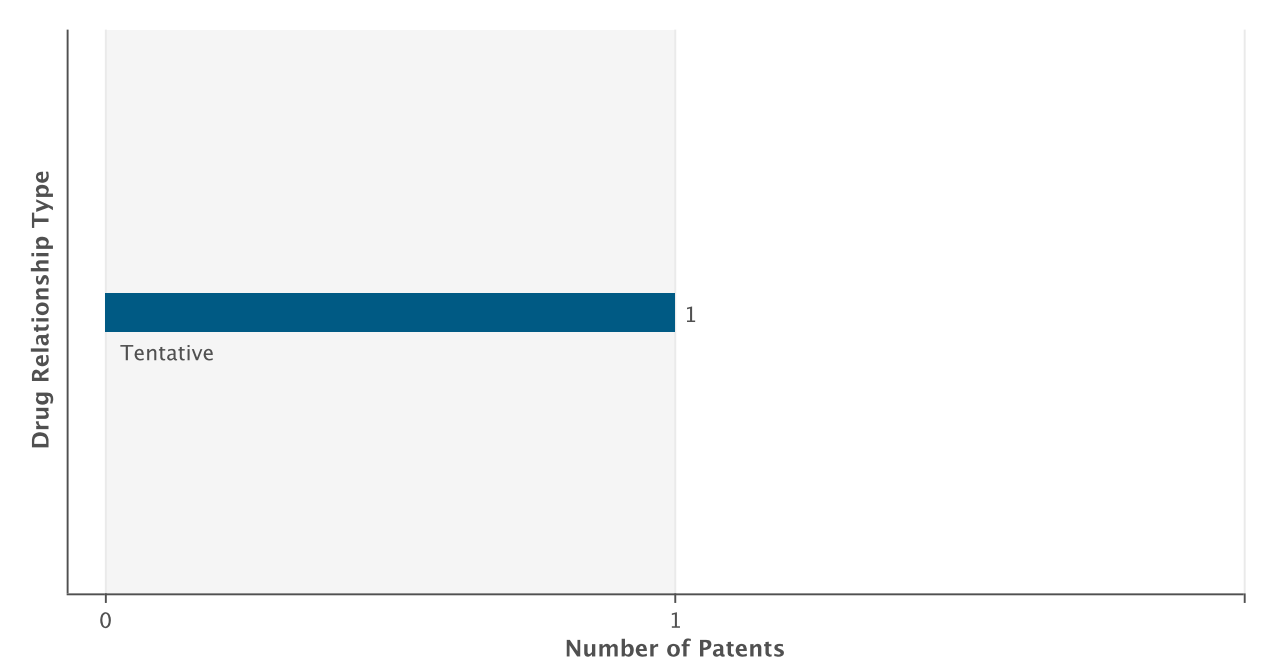


Patents by Parent Company Table

| Company Name | As Owner | As Third Party | Total |
|-------------------|----------|----------------|-------|
| GlycoMimetics Inc | 1 | 0 | 1 |

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Patents by Drug Relationship Type Chart



Patents by Drug Relationship Type Table

| Drug Relationship | Total |
|-------------------|-------|
| Tentative | 1 |

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E-selectin inhibitors (oral, inflammatory disease/cardiovascular disease/cancer), GlycoMimetics

E-selectin inhibitors (oral, inflammatory disease/cardiovascular disease/cancer), GlycoMimetics SNAPSHOT

| | |
|-----------------------------|---|
| Drug Name | E-selectin inhibitors (oral, inflammatory disease/cardiovascular disease/cancer), GlycoMimetics |
| Key Synonyms | |
| Originator Company | GlycoMimetics Inc |
| Active Companies | GlycoMimetics Inc |
| Inactive Companies | |
| Highest Status | Discovery |
| Active Indications | Cancer;Cardiovascular disease;Inflammatory disease |
| Target-based Actions | E-Selectin antagonist |
| Other Actions | Cardiovascular agent;Anti-inflammatory;Anticancer |
| Technologies | Oral formulation;Small molecule therapeutic |
| Last Change Date | 21-Jan-2014 |

E-selectin inhibitors (oral, inflammatory disease/cardiovascular disease/cancer), GlycoMimetics DEVELOPMENT PROFILE

SUMMARY

GlycoMimetics is investigating small molecule therapeutics which inhibits E-selectin for the potential oral treatment of inflammatory diseases, cardiovascular disease and cancer. In February 2012, development of the program was ongoing ; in January 2014, the program was listed as being in preclinical development.

E-selectin inhibitors (oral, inflammatory disease/cardiovascular disease/cancer), GlycoMimetics DEVELOPMENT STATUS

CURRENT DEVELOPMENT STATUS

| Company | Indication | Country | Development Status | Date |
|-------------------|------------------------|---------|--------------------|-------------|
| GlycoMimetics Inc | Cancer | US | Discovery | 21-Jan-2014 |
| GlycoMimetics Inc | Cardiovascular disease | US | Discovery | 21-Jan-2014 |
| GlycoMimetics Inc | Inflammatory disease | US | Discovery | 03-Feb-2012 |

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E-selectin inhibitors (oral, inflammatory disease/cardiovascular disease/cancer), GlycoMimetics

DRUG NAMES

| Names | Type |
|---|------|
| E-selectin inhibitors (oral, inflammatory disease/cardiovascular disease/cancer), GlycoMimetics | |
| E-selectin modulators (oral, inflammatory diseases), GlycoMimetics | |

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

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

| | |
|-----------------------------|---|
| Drug Name | dual E-selectin and CXCR4 inhibitors (hematological cancer/inflammation), GlycoMimetics |
| Key Synonyms | |
| Originator Company | GlycoMimetics Inc |
| Active Companies | GlycoMimetics Inc |
| Inactive Companies | |
| Highest Status | Discovery |
| Active Indications | Hematological neoplasm;Inflammatory disease |
| Target-based Actions | E-Selectin antagonist;CXCR4 chemokine antagonist;Cell adhesion molecule inhibitor |
| Other Actions | Anti-inflammatory;Anticancer chemosensitizer |
| Technologies | Small molecule therapeutic |
| Last Change Date | 22-Jan-2014 |

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

SUMMARY

GlycoMimetics is investigating a program of compounds, including GMI-1215 and GMI-1257, which inhibit the overlapping E-selectin and CXCR4 pathways, for the potential use as a chemosensitizer in the treatment of hematological cancers including acute myeloid leukemia and for the potential treatment of inflammatory diseases,. In December 2011, preclinical data were reported ; in January 2014, the program was still listed as being in preclinical development.

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

CURRENT DEVELOPMENT STATUS

| Company | Indication | Country | Development Status | Date |
|-------------------|------------------------|---------|--------------------|-------------|
| GlycoMimetics Inc | Hematological neoplasm | US | Discovery | 12-Dec-2011 |
| GlycoMimetics Inc | Inflammatory disease | US | Discovery | 19-Dec-2011 |

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

| Names | Type |
|---|---------------|
| dual E-selectin and CXCR4 inhibitors (hematological cancer/inflammation), GlycoMimetics | |
| GMI-1257 | Research Code |
| GMI-1215 | Research Code |

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