

# **Marinus Pharmaceuticals Inc**

# **COMPANY AND PIPELINE OVERVIEW REPORT**

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

Publication Date: 19-Jan-2015

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# ABOUT COMPANY AND PIPELINE OVERVIEW REPORT

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Discover undiscovered opportunities in drug development and licensing faster with *Thomson Reuters Cortellis™ for Competitive Intelligence* 

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i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.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



# **TABLE OF CONTENTS**

| Company Overview          | 7  |
|---------------------------|----|
| Company Profile           | 7  |
| Company Financials        | 7  |
| Product Portfolio Summary | 12 |
| Product Portfolio Drugs   | 15 |



# **Marinus Pharmaceuticals Inc**

#### **COMPANY OVERVIEW**

| Company Name                             | Marinus Pharmaceuticals Inc   |
|--|---|
| Parent Company Name                      | Marinus Pharmaceuticals Inc   |
| Website                                  | http://www.marinuspharma.com/   |
| Country                                  | US  |
| Number of Drugs in Active<br>Development | 3   |
| Number of Inactive Drugs                 | 1   |
| Number of Patents as Owner               | 7   |
| Number of Patents as Third Party         | 2   |
| Number of Deals                          | 7   |
| Key Indications                          | Central nervous system disease, Epilepsy, Fragile X syndrome, Post traumatic stress disorder, Cancer, Allergic rhinitis, Attention deficit hyperactivity disorder, Bipolar disorder, Brain injury, Inflammatory disease, Nasal polyps, Schizophrenia, Seasonal allergic rhinitis  |
| Key Target-based Actions                 | GABA A receptor agonist,AKT1 protein kinase modulator,Alpha 1 antichymotrypsin modulator,Angiotensinogen ligand modulator,Clusterin modulator,Contactin 1 modulator,Contactin 2 modulator,Dickkopf-3 ligand modulator,Erbb2 tyrosine kinase receptor modulator,Extracellular signal related kinase-1 modulator,Extracellular signal related kinase-4 modulator,MAP kinase modulator,Monocyte differentiation antigen CD14 modulator,Neuronal cell adhesion molecule modulator,Protein kinase C inhibitor,Serum amyloid P modulator,Topoisomerase I inhibitor,Topoisomerase II inhibitor,VEGF receptor modulator |
| Key Technologies                         | Small molecule therapeutic, Steroid, Oral formulation, Capsule formulation, Intravenous formulation, Nanoparticle formulation oral, Oral liquid formulation, Oral suspension formulation, Fluorescence, Formulation preservation, Nucleophilic substitutional synthesis, Stereochemical synthesis, Steroid synthesis  |

#### **COMPANY PROFILE**

## **SUMMARY**

Marinus Pharmaceuticals focuses on the identification, development and commercialization of drugs to treat serious neurological, psychiatric and pain disorders.

## **FINANCIAL**

In July 2014, Marinus priced its IPO of 5,625,000 shares at \$8 per share. Underwriters were granted a 30-day overallotment option to buy an additional 843,750 shares. The IPO was expected to close on August 05, 2014. In September 2014, the underwriters exercised their option to purchase an additional 133,000 shares at a price of \$8 each, which bought the total shares issued by the company in the offering to 5,758,000. Net proceeds were approximately \$41.3 million.

In January 2013, Marinus raised \$21 million from a series C financing.

In April 2009, Marinus raised \$20 million from a series B financing round.

In October 2005, Marinus raised \$29.4 million in a series A financing.

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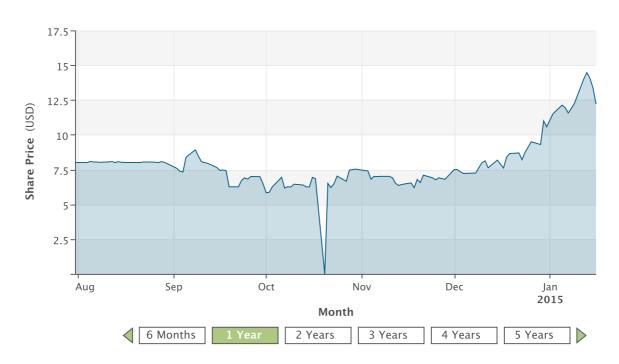
# **COMPANY FINANCIALS**

## **SHARE INFORMATION**

| Close Price (USD)                       | 12.21             |
|---|-------------------|
| Change (USD)                            | -1.19 (-8.88%)    |
| Previous Close Price (USD)              | 13.40             |
| Volume                                  | 21,486            |
| 52-Week High (USD)                      | 16.60             |
| 52-Week Low (USD)                       | 4.00              |
| Date                                    | 16-Jan-2015       |
| Exchange                                | NASDAQ(COMPOSITE) |
| Current Number of Shares<br>Outstanding | 14,007,754        |
| Current Market<br>Capitalization        | 171,034,676       |
| EPS (Date Reported)                     | -0.2938           |

#### **STOCK PERFORMANCE**

## **Stock Performance**



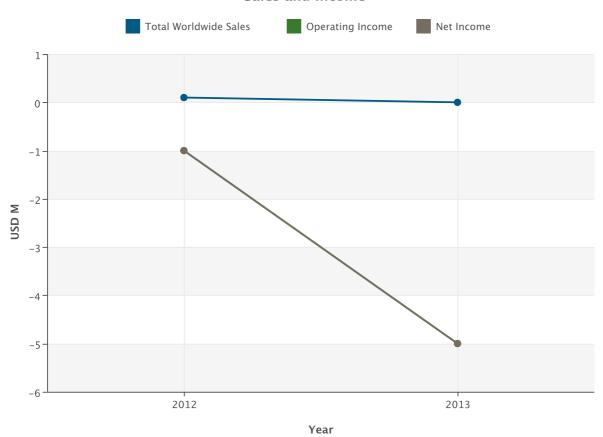
## **MAJOR SHAREHOLDERS**



| Shareholder   | Туре  | Country          | Shares<br>held | % of shares held | Change in holding | % changes in shares held | Date        |
|---|---|------------------|----------------|------------------|-------------------|--------------------------|-------------|
| Franklin Templeton<br>Invest-Biotechnology<br>Discovery   | Mutual<br>Fund                              | United<br>States | 898,900        | 6.42             | 898,900           | 1                        | 31-Oct-2014 |
| AST Small-Cap Growth Portfolio                            | Mutual<br>Fund                              | United<br>States | 56,650         | 0.4              | 0                 | 0                        | 31-Oct-2014 |
| Principal SmallCap<br>Growth Fund I                       | Mutual<br>Fund                              | United<br>States | 50,703         | 0.36             | 18,443            | 0.57                     | 30-Nov-2014 |
| Forward Growth Fund                                       | Mutual<br>Fund                              | United<br>States | 39,110         | 0.28             | 0                 | 0                        | 30-Nov-2014 |
| Target Portfolio Trust-<br>Small Capitalization<br>Growth | Mutual<br>Fund                              | United<br>States | 9,250          | 0.07             | 0                 | 0                        | 31-Oct-2014 |
| Principal Var. Contract<br>SmallCap Growth<br>Account II  | Mutual<br>Fund                              | United<br>States | 7,190          | 0.05             | 0                 | 0                        | 30-Nov-2014 |
| The Vanguard Group, Inc.                                  | Investme<br>nt<br>Advisor                   | United<br>States | 2,300          | 0.02             | 1,800             | 3.6                      | 31-Dec-2014 |
| Geode Capital<br>Management, L.L.C.                       | Investme<br>nt<br>Advisor/<br>Hedge<br>Fund | United<br>States | 2,433          | 0.02             | 2,433             | 1                        | 30-Nov-2014 |
| Fidelity Spartan<br>Extended Market Index<br>Fund         | Mutual<br>Fund                              | United<br>States | 2,433          | 0.02             | 2,433             | 1                        | 30-Nov-2014 |
| Vanguard Total Stock<br>Market Index Fund                 | Mutual<br>Fund                              | United<br>States | 1,800          | 0.01             | 1,800             | 1                        | 30-Nov-2014 |
| AXA/Lord Abbett Micro<br>Cap Portfolio                    | Mutual<br>Fund                              | United<br>States | 897            | 0.01             | 0                 | 0                        | 30-Nov-2014 |
| Vanguard Extended<br>Market Index Fund                    | Mutual<br>Fund                              | United<br>States | 500            | 0                | 0                 | 0                        | 30-Nov-2014 |
| Guggenheim<br>Investments                                 | Investme<br>nt<br>Advisor/<br>Hedge<br>Fund | United<br>States | 0              | 0                | -667              | -1                       | 30-Nov-2014 |
| Wilshire Micro-Cap ETF                                    | Mutual<br>Fund                              | United<br>States | 0              | 0                | -667              | -1                       | 31-Oct-2014 |



# Sales and Income



|                          | 2013      | 2012      |  |
|--------------------------|-----------|-----------|--|
| Sales (USD M)            | 0         | 0.1       |  |
| Operating Income (USD M) | -5.378802 | -1.430655 |  |
| Net Income (USD M)       | -5.269855 | -1.408545 |  |

## **Quarterly earnings update**

| Period  | Sales (USD M) | Operating Income (USD M) | Net Income (USD M) |
|---------|---------------|--------------------------|--------------------|
| 2014 Q3 | 0             | -2.437041                | -2.040711          |
| 2014 Q2 | 0             | -3.263019                | -4.424683          |
| 2014 Q1 | 0             | -2.665216                | -3.305988          |
| 2013 Q3 | 0             | -1.32189                 | -2.252776          |
| 2013 Q2 | 0             | -1.640799                | -2.621721          |
| 2013 Q1 | 0             | -0.927402                | -1.755604          |



## **BALANCE SHEET**

# Assets (USD M)

|  | 2012     | 2013      |
|--|----------|-----------|
| Cash & Short Term<br>Investments       | 8.633775 | 10.037123 |
| Inventories - Total                    | 0        | 0         |
| Current Assets - Total                 | 8.665036 | 11.798502 |
| Property, Plant And<br>Equipment - Net | 0.008734 | 0.016063  |
| Other Assets - Total                   | 0.00833  | 0.00938   |
| Total Assets                           | 8.6821   | 11.823945 |

# Liabilities (USD M)

|   | 2012     | 2013     |
|---|----------|----------|
| Accounts Payable  | 0.115065 | 0.077782 |
| Short Term Debt &<br>Current Portion Of Long<br>Term Debt | 2.670521 | 0        |
| Current Liabilities - Total                               | 4.499942 | 2.36577  |
| Long Term Debt  | 0        | 0        |
| Other Liabilities   | 0        | 0        |
| Total Liabilities   | 4.499942 | 2.36577  |

# Stockholders Equity (USD M)

|  | 2012      | 2013      |
|--|-----------|-----------|
| Minority Interest                        | 0         | 0         |
| Preferred Stock                          | 59.548852 | 69.840206 |
| Common Stock                             | 0.000479  | 0.000494  |
| Treasury Stock                           | 0.00019   | 0.00019   |
| Total Liabilities & Shareholders' Equity | 8.6821    | 11.823945 |

## **FORECASTS**

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## **EPS Forecast**

| Year ending | Current Forecast | 1 month ago | 3 months ago |
|-------------|------------------|-------------|--------------|
| 31-Dec-2015 | -2.06            | -1.82       | -2.01        |
| 31-Dec-2016 | -1.37            | -1.37       | -1.44        |
| 31-Dec-2017 | -1.25            | -1.25       | -1.36        |

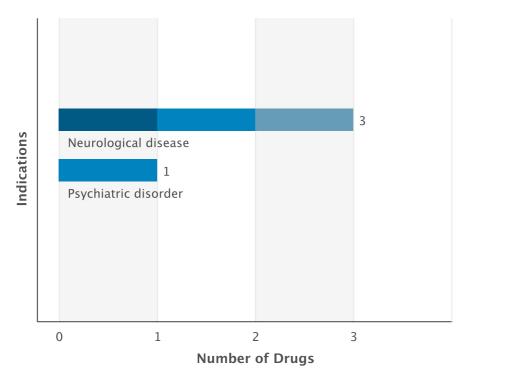
#### **Other Forecasts**

| Year ending | DPS | CPS | Pretax | Sales |
|-------------|-----|-----|--------|-------|
| 31-Dec-2015 |     |     | -25.35 | 0     |
| 31-Dec-2016 |     |     | -26.63 | 0     |
| 31-Dec-2017 |     |     | -25.93 | 0     |

# PRODUCT PORTFOLIO SUMMARY DRUGS

# Drugs by Indication

Active Drugs by Indication Chart



Phase 3 Clinical
Phase 2 Clinical
Discovery

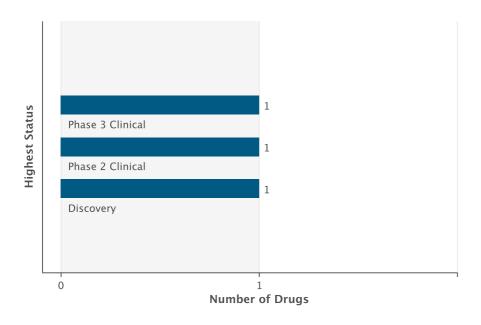


# Drugs by Indication Table

| Indication           | Active | Inactive | Total |
|----------------------|--------|----------|-------|
| Neurological disease | 3      | 0        | 3     |
| Psychiatric disorder | 1      | 1        | 2     |
| Genetic disorder     | 0      | 1        | 1     |

# **Drugs by Highest Status**

Active Drugs by Highest Status Chart



Drugs by Highest Status Table

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

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#### **DEALS**

| Deal Type                                    | Prin   | cipal    | Pai    | tner     | Total |
|--|--------|----------|--------|----------|-------|
|  | Active | Inactive | Active | Inactive |       |
| Drug - Funding                               | 1      | 0        | 0      | 0        | 1     |
| Drug - Early Research/Development            | 0      | 0        | 1      | 0        | 1     |
| Drug - Development/Commercialization License | 1      | 0        | 1      | 0        | 2     |
| Drug - Development Services                  | 0      | 0        | 2      | 0        | 2     |
| Technology - Delivery/Formulation            | 0      | 0        | 1      | 0        | 1     |

# **CLINICAL TRIALS**

## Trials by Condition Studied

| Condition Studied    | Ongoing | All |
|----------------------|---------|-----|
| Neurological disease | 1       | 6   |
| Psychiatric disorder | 1       | 2   |

## Trials by Phase

| Phase   | Ongoing | All |
|---------|---------|-----|
| Phase 2 | 2       | 8   |

#### **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 |
|-------------------------|----------|----------------|-------|
| Immune disorder         | 1        | 0              | 1     |
| Psychiatric disorder    | 2        | 0              | 2     |
| Musculoskeletal disease | 1        | 0              | 1     |
| Neoplasm                | 2        | 1              | 3     |
| Genetic disorder        | 1        | 0              | 1     |
| Neurological disease    | 4        | 1              | 5     |



| Respiratory disease            | 1 | 0 | 1 |
|--------------------------------|---|---|---|
| Infectious disease             | 2 | 0 | 2 |
| Injury                         | 0 | 1 | 1 |
| Inflammatory disease           | 2 | 0 | 2 |
| Otorhinolaryngological disease | 1 | 0 | 1 |

<sup>\*</sup> 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

## ganaxolone (oral capsule/nanoparticle, PTSD/CNS disorders), Marinus/NovaMedica

| Drug Name            | ganaxolone (oral capsule/nanoparticle, PTSD/CNS disorders), Marinus/NovaMedica                            |
|----------------------|---|
| Key Synonyms         | ganaxolone  |
| Originator Company   | Marinus Pharmaceuticals Inc   |
| Active Companies     | Marinus Pharmaceuticals Inc, NovaMedica   |
| Inactive Companies   |   |
| Highest Status       | Phase 3 Clinical  |
| Active Indications   | Post traumatic stress disorder, Epilepsy, Central nervous system disease                                  |
| Target-based Actions | GABA A receptor agonist   |
| Other Actions        | CNS modulator, Anticonvulsant agent   |
| Technologies         | Oral formulation, Capsule formulation, Nanoparticle formulation oral, Small molecule therapeutic, Steroid |
| Last Change Date     | 14-Nov-2014   |
|                      |   |

# ganaxolone (oral liquid suspension, epilepsy/fragile X syndrome), Marinus/NovaMedica

| Drug Name            | ganaxolone (oral liquid suspension, epilepsy/fragile X syndrome),<br>Marinus/NovaMedica                     |
|----------------------|---|
| Key Synonyms         | ganaxolone  |
| Originator Company   | Marinus Pharmaceuticals Inc   |
| Active Companies     | Marinus Pharmaceuticals Inc, NovaMedica   |
| Inactive Companies   |   |
| Highest Status       | Phase 2 Clinical  |
| Active Indications   | Fragile X syndrome, Epilepsy, Central nervous system disease  |
| Target-based Actions | GABA A receptor agonist   |
| Other Actions        | CNS modulator, Anticonvulsant agent   |
| Technologies         | Oral formulation, Oral liquid formulation, Oral suspension formulation, Small molecule therapeutic, Steroid |
| Last Change Date     | 14-Nov-2014   |

# ganaxolone (intravenous/Captisol, central nervous system diseases), Marinus

| Drug Name            | ganaxolone (intravenous/Captisol, central nervous system diseases), Marinus |
|----------------------|---|
| Key Synonyms         | ganaxolone  |
| Originator Company   | Marinus Pharmaceuticals Inc   |
| Active Companies     | Marinus Pharmaceuticals Inc   |
| Inactive Companies   |   |
| Highest Status       | Discovery   |
| Active Indications   | Central nervous system disease  |
| Target-based Actions | GABA A receptor agonist   |
| Other Actions        | CNS modulator   |
| Technologies         | Intravenous formulation, Small molecule therapeutic, Steroid                |
| Last Change Date     | 14-Nov-2014   |



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