

## Calithera Biosciences

### COMPANY AND PIPELINE OVERVIEW REPORT

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

Publication Date: 02-Aug-2015

#### THOMSON REUTERS

3 Times Square  
New York, New York 10036  
United States

Tel: +1 646 223 4000

[thomsonreuters.com](http://thomsonreuters.com)

[Return to Table of Contents](#)



## 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 accurate and 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.

*Cortellis* Company and Pipeline Overview reports are the first in a series of reports that track pharmaceutical and biotechnology companies worldwide. Further report offerings planned to follow include: Company Detailed Pipeline and Company Competitive Landscape reports. All *Cortellis for Competitive Intelligence* content is subject to the most comprehensive editorial review process available, conducted by scientists, pharma professionals, regulatory experts, and generics specialists. Featuring timely drug pipeline information expertly uncovered and integrated from a significant number of global meetings each year, you'll always be on top of the latest developments.

Chosen by leading life sciences companies, their executives and investors, *Cortellis for Competitive Intelligence* accelerates your deal-making and gives you timely insights on the development landscape.

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

## DISCLAIMER

The information contained in this report is based on sources believed to be correct but Thomson Reuters does not guarantee the accuracy, timeliness, or completeness of this information. Opinions, if any, are those held by the author of any individual report or article at the time of initial publication and do not necessarily reflect the views of Thomson Reuters.

Information in this report on companies is intended for reference use only, and does not constitute a recommendation to buy or sell any particular security or other investment and does not constitute an offer to buy from or sell to any particular investor. Any company or securities mentioned in this report may not be suitable for any particular investor, depending on that investor's financial position and needs.

[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

Company Financials..... 7

Product Portfolio Summary..... 12

Product Portfolio Drugs..... 15

[Return to Table of Contents](#)

# Calithera Biosciences

## COMPANY OVERVIEW

Company Name	Calithera Biosciences
Parent Company Name	Calithera Biosciences
Website	http://www.calithera.com/
Country	US
Number of Drugs in Active Development	4
Number of Inactive Drugs	1
Number of Patents as Owner	7
Number of Patents as Third Party	0
Number of Deals	4
Key Indications	Cancer,Advanced solid tumor,Hematological neoplasm,Autoimmune disease,Cardiovascular disease,Gastrointestinal disease,Infectious disease,Lung disease,Wound healing,Autoimmune hemolytic anemia,Erectile dysfunction,Multiple sclerosis,Sexual dysfunction,Thalassemia
Key Target-based Actions	Mcl-1 differentiation protein inhibitor,Arginase-I inhibitor,Arginase-II inhibitor,Mitochondrial kidney glutaminase inhibitor
Key Technologies	Small molecule therapeutic,Oral formulation

## COMPANY PROFILE

### SUMMARY

Calithera Biosciences, founded in 2010 with technology licensed from the University of California, San Francisco, is focused on the development of cancer therapies based on the activation of caspase and other enzymes.

### FINANCIAL

In October 2014, the company priced its initial public offering of 8 million shares of common stock at \$10 per share. The underwriters were granted a 30-day option to purchase up to 1.2 million additional shares of common stock. At that time, the common stock of the company began trading on the NASDAQ global select market, under the ticker symbol "CALA".

In October 2013, Calithera raised \$35 million in series D financing.

In July 2010, Calithera raised \$40 million in a series A financing.

## COMPANY FINANCIALS

### SHARE INFORMATION

Close Price (USD)	7.40
Change (USD)	-0.10 (-1.33%)
Previous Close Price (USD)	7.50
Volume	635,339
52-Week High (USD)	33.48
52-Week Low (USD)	6.51

[Return to Table of Contents](#)



<b>Date</b>	31-Jul-2015
<b>Exchange</b>	NASDAQ(COMPOSITE)
<b>Current Number of Shares Outstanding</b>	17,946,393
<b>Current Market Capitalization</b>	162,055,929
<b>EPS (Date Reported)</b>	-0.32024

## STOCK PERFORMANCE



## MAJOR SHAREHOLDERS

Shareholder	Type	Country	Shares held	% of shares held	Change in holding	% changes in shares held	Date
Fidelity Select Biotechnology Portfolio	Mutual Fund	United States	1,794,600	10	415,900	0.3	30-Jun-2015
Fidelity Advisor Biotechnology Fund	Mutual Fund	United States	497,158	2.77	143,358	0.41	30-Jun-2015
Numeric Investors LLC	Investment Advisor/Hedge Fund	United States	335,343	1.87	335,343	1	30-Jun-2015

[Return to Table of Contents](#)

BlackRock Institutional Trust Company, N.A.	Investment Advisor	United States	290,963	1.62	54,023	0.23	30-Jun-2015
Candriam Belgium S.A.	Investment Advisor/Hedge Fund	Belgium	190,000	1.06	0	0	30-Apr-2015
Fidelity Blue Chip Growth Fund	Mutual Fund	United States	264,600	1.47	-1,800	-0.01	30-Jun-2015
Candriam Luxembourg S.A.	Investment Advisor	Luxembourg	230,000	1.28	40,000	0.21	30-Jun-2015
iShares Russell 2000 ETF	Mutual Fund	United States	172,582	0.96	34,209	0.25	30-Jun-2015
Vanguard Total Stock Market Index Fund	Mutual Fund	United States	144,120	0.8	0	0	30-Jun-2015
Fidelity Series Blue Chip Growth Fund	Mutual Fund	United States	121,000	0.67	0	0	30-Jun-2015
Vanguard Extended Market Index Fund	Mutual Fund	United States	93,328	0.52	12,755	0.16	30-Jun-2015
Alger Health Sciences Fund	Mutual Fund	United States	52,250	0.29	31,000	1.46	31-May-2015
iShares Russell 2000 Value ETF	Mutual Fund	United States	75,760	0.42	68,829	9.93	30-Jun-2015
JPMorgan U.S. Small Company Fund	Mutual Fund	United States	47,700	0.27	1,200	0.03	31-May-2015
Fidelity Spartan Extended Market Index Fund	Mutual Fund	United States	27,885	0.16	0	0	30-Jun-2015
Franklin Street Advisors, Inc.	Investment Advisor/Hedge Fund	United States	27,250	0.15	27,250	1	30-Jun-2015
VALIC Co I Health Sciences Fund	Mutual Fund	United States	17,238	0.1	5,538	0.47	31-May-2015
iShares Micro-Cap ETF	Mutual Fund	United States	21,965	0.12	2,648	0.14	30-Jun-2015
Vanguard Institutional Total Stock Market Index Fund	Mutual Fund	United States	18,562	0.1	0	0	30-Jun-2015
TIAA-CREF Small Cap Blend Index Fund	Mutual Fund	United States	7,884	0.04	-2,525	-0.24	31-May-2015

[Return to Table of Contents](#)



## FINANCIAL PERFORMANCE

### Sales and Income



	2012	2013	2014		
<b>Sales (USD M)</b>	0	0	0		
<b>Operating Income (USD M)</b>	-7.975	-12.378	-21.721		
<b>Net Income (USD M)</b>	-5.086	-12.377	-21.712		

### Quarterly earnings update

Period	Sales (USD M)	Operating Income (USD M)	Net Income (USD M)
2015 Q1	0	-7.867	-7.858
2014 Q3	0	-5.241	-5.239
2014 Q1	0	-4.15	-4.149
2013 Q3	0	-3.318	-3.318

## BALANCE SHEET

[Return to Table of Contents](#)



### Assets (USD M)

	2012	2013	2014		
Cash & Short Term Investments	2.205	33.82	101.969		
Inventories - Total	0	0	0		
Current Assets - Total	2.272	34.169	103.863		
Property, Plant And Equipment - Net	0.681	0.559	0.861		
Other Assets - Total	0	0	0		
Total Assets	3.06	34.844	104.77		

### Liabilities (USD M)

	2012	2013	2014		
Accounts Payable	0.025	0.15	0.693		
Short Term Debt & Current Portion Of Long Term Debt	0	0	0		
Current Liabilities - Total	0.909	1.344	4.121		
Long Term Debt	0	0	0		
Deferred Taxes	0	0			
Other Liabilities	0	0.031	0.283		
Total Liabilities	0.909	1.375	4.404		

### Stockholders Equity (USD M)

	2012	2013	2014		
Minority Interest	0	0	0		
Preferred Stock	10.722	54.282	0		
Common Stock	0	0	0.002		
Treasury Stock	0		0		
Total Liabilities & Shareholders' Equity	3.06	34.844	104.77		

### FORECASTS

[Return to Table of Contents](#)

## EPS Forecast

Year ending	Current Forecast	1 month ago	3 months ago
31-Dec-2015	-1.93	-1.93	-2.19
31-Dec-2016	-2.82	-2.82	-2.76
31-Dec-2017	-4.02	-4.02	-3.82

## Other Forecasts

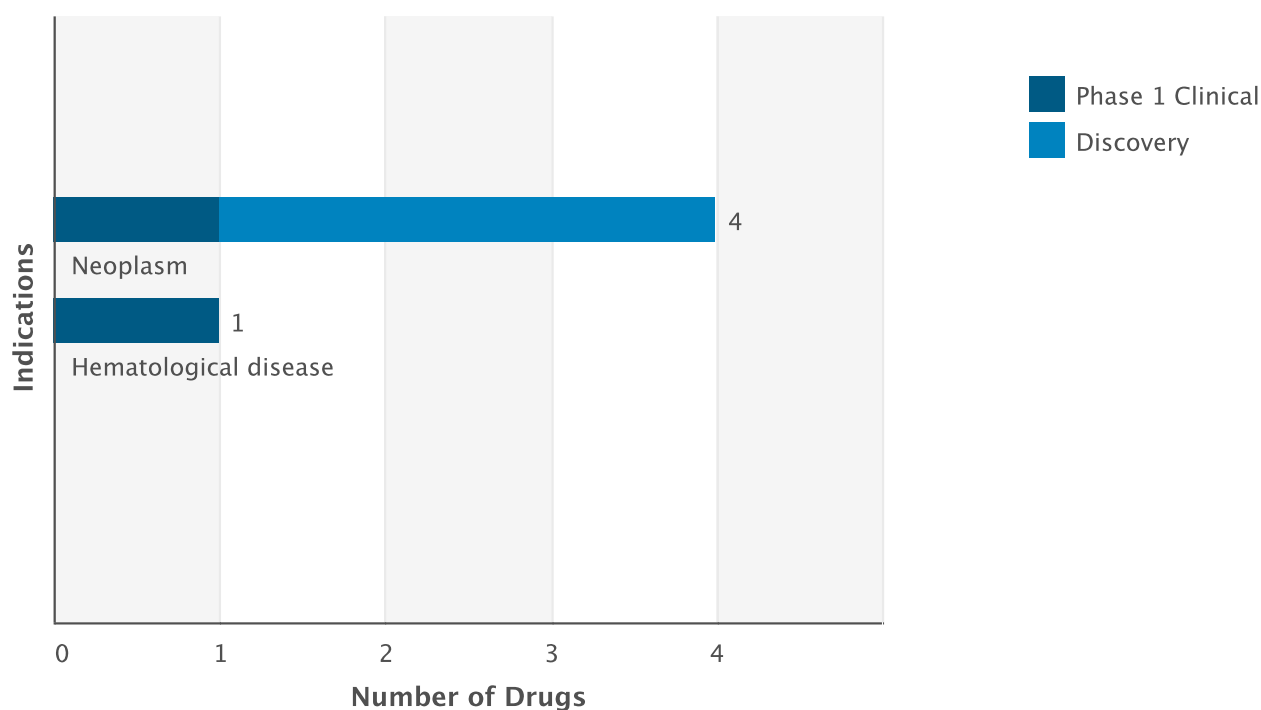
Year ending	DPS	CPS	Pretax	Sales
31-Dec-2015	0		-37.12	0
31-Dec-2016	0		-63.55	0
31-Dec-2017	0		-122.67	0

## PRODUCT PORTFOLIO SUMMARY

### DRUGS

#### Drugs by Indication

Active Drugs by Indication Chart



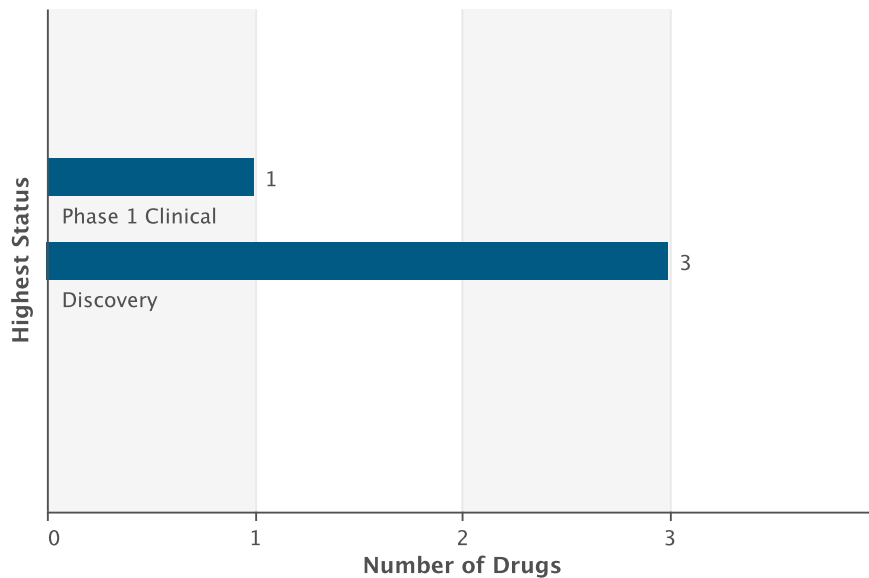
[Return to Table of Contents](#)

## Drugs by Indication Table

Indication	Active	Inactive	Total
Neoplasm	4	1	5
Hematological 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 1 Clinical	1
Discovery	3
No Development Reported	1

## DEALS

Deal Type	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Drug - Development/Commercialization License	0	0	3	0	3
Drug - Early Research/Development	0	0	1	0	1

## CLINICAL TRIALS

[Return to Table of Contents](#)



## Trials by Condition Studied

Condition Studied	Ongoing	All
Neoplasm	3	3
Hematological disease	2	2
Gynecology and obstetrics	1	1
Genitourinary disease	1	1
Respiratory disease	1	1
Gastrointestinal disease	1	1
Endocrine disease	1	1
Immune disorder	1	1

## Trials by Phase

Phase	Ongoing	All
Phase 1	3	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
Immune disorder	6	0	6
Neoplasm	2	0	2
Genetic disorder	2	0	2
Metabolic disorder	2	0	2
Neurological disease	5	0	5
Respiratory disease	6	0	6
Infectious disease	4	0	4
Injury	3	0	3

[Return to Table of Contents](#)



Cardiovascular disease	4	0	4
Endocrine disease	2	0	2
Gastrointestinal disease	5	0	5
Genitourinary disease	5	0	5
Hematological disease	4	0	4
Andrology	2	0	2
Inflammatory disease	3	0	3
Gynecology and obstetrics	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

### CB-839

<b>Drug Name</b>	CB-839
<b>Key Synonyms</b>	
<b>Originator Company</b>	Calithera Biosciences
<b>Active Companies</b>	Sanford-Burnham Medical Research Institute, Calithera Biosciences
<b>Inactive Companies</b>	
<b>Highest Status</b>	Phase 1 Clinical
<b>Active Indications</b>	Hematological neoplasm, Advanced solid tumor
<b>Target-based Actions</b>	
<b>Other Actions</b>	Cell cycle inhibitor, Apoptosis stimulator, Glutaminase inhibitor, Synergist, Anticancer
<b>Technologies</b>	Oral formulation, Small molecule therapeutic
<b>Last Change Date</b>	10-Jul-2015

### hexokinase 2 inhibitors (cancer), Calithera

<b>Drug Name</b>	hexokinase 2 inhibitors (cancer), Calithera
<b>Key Synonyms</b>	
<b>Originator Company</b>	vTv Therapeutics LLC
<b>Active Companies</b>	Calithera Biosciences
<b>Inactive Companies</b>	vTv Therapeutics LLC
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Cancer
<b>Target-based Actions</b>	Hexokinase 2 inhibitor
<b>Other Actions</b>	Anticancer, Cell cycle inhibitor
<b>Technologies</b>	Small molecule therapeutic
<b>Last Change Date</b>	06-Mar-2015

[Return to Table of Contents](#)



## Mcl-1 inhibitors (cancer), Calithera Biosciences

<b>Drug Name</b>	Mcl-1 inhibitors (cancer), Calithera Biosciences
<b>Key Synonyms</b>	
<b>Originator Company</b>	Calithera Biosciences
<b>Active Companies</b>	Calithera Biosciences
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Cancer
<b>Target-based Actions</b>	Mcl-1 differentiation protein inhibitor
<b>Other Actions</b>	Apoptosis stimulator, Anticancer
<b>Technologies</b>	Small molecule therapeutic
<b>Last Change Date</b>	02-Nov-2013

## CB-1158

<b>Drug Name</b>	CB-1158
<b>Key Synonyms</b>	
<b>Originator Company</b>	Mars Symbioscience
<b>Active Companies</b>	Calithera Biosciences
<b>Inactive Companies</b>	Mars Symbioscience
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Cancer
<b>Target-based Actions</b>	Arginase inhibitor
<b>Other Actions</b>	Anticancer
<b>Technologies</b>	Oral formulation, Small molecule therapeutic
<b>Last Change Date</b>	24-Jun-2015

[Return to Table of Contents](#)



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.

For more information about *Cortellis for Competitive Intelligence*, visit:

[http://cortellis.thomsonreuters.com/cortellis\\_for\\_you/?cid=thomsonone](http://cortellis.thomsonreuters.com/cortellis_for_you/?cid=thomsonone).

For subscription information, e-mail [scientific.lifesciences@thomsonreuters.com](mailto:scientific.lifesciences@thomsonreuters.com).

© 2012 Thomson Reuters. All rights reserved.  
Republication or redistribution of Thomson Reuters content, including by framing or similar means, is prohibited without the prior written consent of Thomson Reuters. 'Thomson Reuters' and the Thomson Reuters logo are registered trademarks and trademarks of Thomson Reuters and its affiliated companies.

[Return to Table of Contents](#)

