

Minerva Neurosciences Inc

COMPANY AND PIPELINE OVERVIEW REPORT

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

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THOMSON REUTERS

3 Times Square New York, New York 10036 United States

Tel: +1 646 223 4000

thomsonreuters.com



ABOUT COMPANY AND PIPELINE OVERVIEW REPORT

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i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.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



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Minerva Neurosciences Inc

COMPANY OVERVIEW

Company Name	Minerva Neurosciences Inc
Parent Company Name	Minerva Neurosciences Inc
Website	http://minervaneurosciences.com/
Country	US
Number of Drugs in Active Development	5
Number of Inactive Drugs	0
Number of Patents as Owner	3
Number of Patents as Third Party	0
Number of Deals	3
Key Indications	Parkinsons disease, Depression, Schizophrenia, Insomnia, Sleep disorder, Alzheimers disease, Anxiety disorder, Attention deficit-disruptive behaviour disorder, Bipolar disorder, Cognitive disorder, Delusion, Drug dependence, HIV associated dementia, Hallucination, Hyperactivity, Hypomania, Lewy body dementia
Key Target-based Actions	Erbb3 tyrosine kinase receptor modulator, Neuregulin ligand, Orexin 2 receptor antagonist, 5-HT 2a receptor antagonist, Opioid receptor sigma antagonist 2,5-HT 1a receptor antagonist
Key Technologies	Biological therapeutic,Formulation solid,Peptide,Small molecule therapeutic,Subcutaneous formulation,Systemic formulation unspecified

COMPANY PROFILE

SUMMARY

Minerva Neurosciences, formed by the merger of Cyrenaic and SONKEI pharmaceuticals, in November 2013, is focused on the development and commercialization of drugs for the treatment of CNS diseases.

FINANCIAL

In June 2014, Minerva announced its initial public offering of 5,454,545 shares of its common stock priced at \$6.00 per share and at that time, the underwriters were granted a 30-day option to purchase up to 818,181 additional shares of common stock at the same price. The offering was expected to close on July 07, 2014. In July 2014, the shares began trading on the NASDAQ global market under the symbol "NERV". In July 2014, the IPO was completed. By August 2014, the company had also sold approximately 0.7 million shares in a private placement. The net proceeds from the IPO and private placement were approximately \$29.9 million.

COMPANY FINANCIALS

SHARE INFORMATION

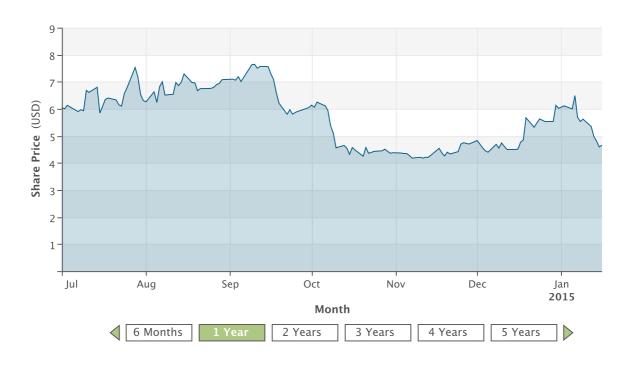
Close Price (USD)	4.66
Change (USD)	0.07 (1.53%)
Previous Close Price (USD)	4.59
Volume	43,397
52-Week High (USD)	10.00



52-Week Low (USD)	4.08
Date	16-Jan-2015
Exchange	NASDAQ(COMPOSITE)
Current Number of Shares Outstanding	18,439,482
Current Market Capitalization	85,927,986
EPS (Date Reported)	-0.06144

STOCK PERFORMANCE

Stock Performance



MAJOR SHAREHOLDERS

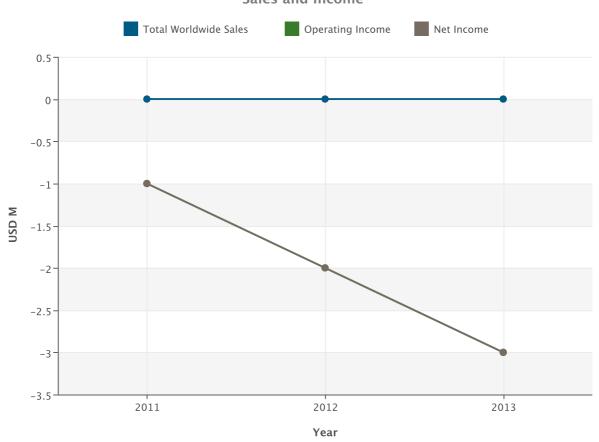
Shareholder	Туре	Country	Shares held	% of shares held	Change in holding	% changes in shares held	Date
Fidelity Select Biotechnology Portfolio	Mutual Fund	United States	1,271,400	6.89	0	0	30-Nov-2014
Fidelity Advisor Biotechnology Fund	Mutual Fund	United States	228,600	1.24	0	0	30-Nov-2014
Fidelity Spartan Extended Market Index Fund	Mutual Fund	United States	24,020	0.13	4,020	0.2	30-Nov-2014



Fidelity NASDAQ Composite Index Fund	Mutual Fund	United States	3,949	0.02	0	0	30-Nov-2014
The Vanguard Group, Inc.	Investme nt Advisor	United States	1,574	0.01	0	0	31-Dec-2014
Vanguard Extended Market Index Fund	Mutual Fund	United States	1,574	0.01	0	0	30-Nov-2014
AXA/Lord Abbett Micro Cap Portfolio	Mutual Fund	United States	820	0	0	0	30-Nov-2014
Guggenheim Investments	Investme nt Advisor/ Hedge Fund	United States	0	0	-673	-1	30-Nov-2014
Wilshire Micro-Cap ETF	Mutual Fund	United States	0	0	-673	-1	31-Oct-2014

FINANCIAL PERFORMANCE

Sales and Income



	2011	2012	2013	
Sales (USD M)	0	0	0	
Operating Income (USD M)	-1.127891	-1.581016	-3.160979	



	2011	2012	2013	
Net Income (USD M)	-1.122714	-1.581955	-3.262005	

Quarterly earnings update

Period	Sales (USD M)	Operating Income (USD M)	Net Income (USD M)
2014 Q3	0	-27.151351	-27.155197
2014 Q2	0	-17.649835	-19.365662
2014 Q1	0	-2.623328	-2.938418
2013 Q4	0	-2.02839	-2.126529
2013 Q2	0	-0.378787	-0.375953
2013 Q1	0	-0.27133	-0.27133
2012 Q4	0	-0.2944	-0.296152

BALANCE SHEET

Assets (USD M)

	2011	2012	2013	
Cash & Short Term Investments	0.208857	0.200314	1.818317	
Inventories - Total	0	0	0	
Current Assets - Total	0.243173	0.209309	1.819169	
Property, Plant And Equipment - Net		0	0.003232	
Other Assets - Total	0	0	27.352385	
Total Assets	0.243173	0.209309	29.174786	



Liabilities (USD M)

	2011	2012	2013	
Accounts Payable		0	0.522981	
Short Term Debt & Current Portion Of Long Term Debt	0	0	0.05827	
Current Liabilities - Total	0.130004	0.19029	1.406583	
Long Term Debt	0	0	0	
Deferred Taxes		0	7.5886	
Other Liabilities	0	0	0	
Total Liabilities	0.130004	0.19029	8.995183	

Stockholders Equity (USD M)

	2011	2012	2013	
Minority Interest	0	0	0	
Preferred Stock	0	0	0	
Common Stock	0.00112	0.000356	0.000611	
Treasury Stock	0	0		
Total Liabilities & Shareholders' Equity	0.243173	0.209309	29.174786	

FORECASTS

EPS Forecast

Year ending	Current Forecast	1 month ago	3 months ago
31-Dec-2015	-1.96	-1.96	-1.65
31-Dec-2016	-2.57	-2.57	-2.24
31-Dec-2017	-2.49	-2.49	-2.53

Other Forecasts

Year ending	DPS	CPS	Pretax	Sales
31-Dec-2015			-34.36	8.33
31-Dec-2016			-63.68	0
31-Dec-2017			-50.87	15

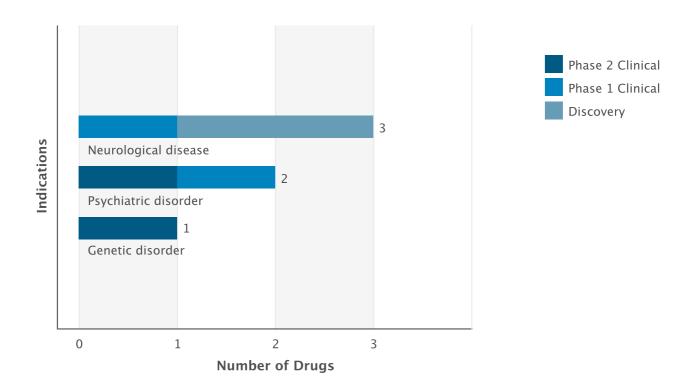


PRODUCT PORTFOLIO SUMMARY

DRUGS

Drugs by Indication

Active Drugs by Indication Chart



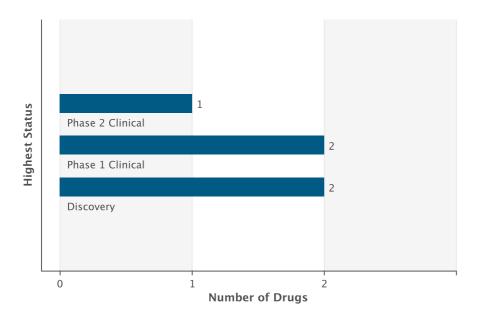
Drugs by Indication Table

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

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Drugs by Highest Status

Active Drugs by Highest Status Chart



Drugs by Highest Status Table

Development Status	Number of Drugs
Phase 2 Clinical	1
Phase 1 Clinical	2
Discovery	2

DEALS

Deal Type		cipal Inactive		tner Inactive	Total
Drug - Development/Commercialization License	1	0	2	0	3

CLINICAL TRIALS

Trials by Condition Studied

Condition Studied	Ongoing	All
Genetic disorder	0	1
Psychiatric disorder	0	1



Trials by Phase

Phase	Ongoing	All
Phase 2	0	1
Phase 1	1	1
Phase not specified	0	1

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

PATENTS *

Indication	As Owner	As Third Party	Total
Degeneration	1	0	1
Psychiatric disorder	3	0	3
Genetic disorder	2	0	2
Neurological disease	3	0	3
Toxicity and intoxication	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.



PRODUCT PORTFOLIO DRUGS

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

MIN-101

Drug Name	MIN-101
Key Synonyms	
Originator Company	Mitsubishi Chemical Holdings Corp
Active Companies	Minerva Neurosciences Inc
Inactive Companies	Mitsubishi Chemical Holdings Corp
Highest Status	Phase 2 Clinical
Active Indications	Schizophrenia
Target-based Actions	5-HT 2a receptor antagonist, Opioid receptor sigma antagonist 2
Other Actions	Antipsychotic
Technologies	Oral formulation, Small molecule therapeutic
Last Change Date	06-Dec-2014

MIN-117

Drug NameMIN-117Key SynonymsMitsubishi Pharma CorpOriginator CompanyMitsubishi Pharma CorpActive CompaniesMinerva Neurosciences IncInactive CompaniesMitsubishi Tanabe Pharma Corp, Sonkei Pharmaceuticals Inc, Mitsubishi Pharma CorpHighest StatusPhase 1 ClinicalActive IndicationsDepressionTarget-based Actions5-HT 1a receptor antagonistOther ActionsAntidepressant, 5-HT uptake inhibitorTechnologiesSystemic formulation unspecified, Small molecule therapeuticLast Change Date06-Aug-2014		
Originator Company Mitsubishi Pharma Corp Minerva Neurosciences Inc Inactive Companies Mitsubishi Tanabe Pharma Corp, Sonkei Pharmaceuticals Inc, Mitsubishi Pharma Corp Highest Status Phase 1 Clinical Active Indications Depression 5-HT 1a receptor antagonist Other Actions Antidepressant, 5-HT uptake inhibitor Technologies Systemic formulation unspecified, Small molecule therapeutic	Drug Name	MIN-117
Active Companies Minerva Neurosciences Inc Mitsubishi Tanabe Pharma Corp, Sonkei Pharmaceuticals Inc, Mitsubishi Pharma Corp Highest Status Phase 1 Clinical Active Indications Depression Target-based Actions 5-HT 1a receptor antagonist Other Actions Antidepressant, 5-HT uptake inhibitor Technologies Systemic formulation unspecified, Small molecule therapeutic	Key Synonyms	
Inactive Companies Mitsubishi Tanabe Pharma Corp, Sonkei Pharmaceuticals Inc, Mitsubishi Pharma Corp Highest Status Phase 1 Clinical Active Indications Depression 5-HT 1a receptor antagonist Other Actions Antidepressant, 5-HT uptake inhibitor Technologies Systemic formulation unspecified, Small molecule therapeutic	Originator Company	Mitsubishi Pharma Corp
Highest Status Phase 1 Clinical Active Indications Depression Target-based Actions 5-HT 1a receptor antagonist Other Actions Antidepressant, 5-HT uptake inhibitor Technologies Systemic formulation unspecified, Small molecule therapeutic	Active Companies	Minerva Neurosciences Inc
Active Indications Depression 5-HT 1a receptor antagonist Other Actions Antidepressant, 5-HT uptake inhibitor Technologies Systemic formulation unspecified, Small molecule therapeutic	Inactive Companies	
Target-based Actions 5-HT 1a receptor antagonist Other Actions Antidepressant, 5-HT uptake inhibitor Technologies Systemic formulation unspecified, Small molecule therapeutic	Highest Status	Phase 1 Clinical
Other Actions Antidepressant, 5-HT uptake inhibitor Technologies Systemic formulation unspecified, Small molecule therapeutic	Active Indications	Depression
Technologies Systemic formulation unspecified, Small molecule therapeutic	Target-based Actions	5-HT 1a receptor antagonist
	Other Actions	Antidepressant, 5-HT uptake inhibitor
Last Change Date 06-Aug-2014	Technologies	Systemic formulation unspecified, Small molecule therapeutic
	Last Change Date	06-Aug-2014

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MIN-202

Drug Name	MIN-202
Key Synonyms	
ney cynonyme	
Originator Company	Minerva Neurosciences Inc
Active Companies	Minerva Neurosciences Inc, Janssen Pharmaceutica NV
Inactive Companies	
Highest Status	Phase 1 Clinical
Active Indications	Insomnia
Target-based Actions	Orexin 2 receptor antagonist
Other Actions	
Technologies	Systemic formulation unspecified, Small molecule therapeutic, Formulation solid
Last Change Date	07-Nov-2014

MIN-301

Drug Name	MIN-301
Key Synonyms	
Originator Company	ProteoSys AG
Active Companies	Minerva Neurosciences Inc
Inactive Companies	Mind-NRG, ProteoSys AG
Highest Status	Discovery
Active Indications	Parkinsons disease
Target-based Actions	Neuregulin ligand, Erbb3 tyrosine kinase receptor modulator, Erbb4 tyrosine kinase receptor stimulator
Other Actions	Neuroprotectant, Nootropic agent, Antiparkinsonian
Technologies	Injectable formulation, Biological therapeutic, Parenteral formulation unspecified, Peptide
Last Change Date	06-Jan-2015

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MIN-301 analog (sc, Parkinsons disease), Minerva Neurosciences

Drug Name	MIN-301 analog (sc, Parkinsons disease), Minerva Neurosciences
Key Synonyms	
Originator Company	Minerva Neurosciences Inc
Active Companies	Minerva Neurosciences Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Parkinsons disease
Target-based Actions	Neuregulin ligand, Erbb3 tyrosine kinase receptor modulator
Other Actions	Antiparkinsonian, Nootropic agent
Technologies	Subcutaneous formulation, Biological therapeutic, Peptide
Last Change Date	06-Jan-2015



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