

Achaogen Inc

COMPANY AND PIPELINE OVERVIEW REPORT

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

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i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.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

COMPANY OVERVIEW

Company Name	Achaogen Inc
Parent Company Name	Achaogen Inc
Website	http://www.achaogen.com/
Country	US
Number of Drugs in Active Development	3
Number of Inactive Drugs	3
Number of Patents as Owner	41
Number of Patents as Third Party	1
Number of Deals	12
Key Indications	Gram negative bacterium infection, Bacterial infection, Pseudomonas aeruginosa infection, Enterobacteriaceae infection, Escherichia coli infection, Multidrug resistant infection, Bacterial pneumonia, Bacterial urinary tract infection, Pyelonephritis, Sepsis
Key Target-based Actions	LpxC inhibitor, SOS gene inhibitor, Penicillin binding protein inhibitor
Key Technologies	Small molecule therapeutic, Antibiotic, Oral formulation, Systemic formulation unspecified, Infusion, Intravenous formulation, Drug combination, Crystalline form, Formulation preservation, Pharmaceutical carrier

COMPANY PROFILE

SUMMARY

Achaogen Inc is a biotechnology company, established by August 2004, focused on the development of small molecule compounds to combat multi-drug resistance in bacteria. It takes products to the early clinical development stage at which point it seeks worldwide external resources for late-stage clinical work. The company is pursuing several unique strategies to combat these pathogens, including the development of drugs (achaogens) against the induced mutation process that is upregulated in bacteria during antibiotic exposure and that leads to the introduction of mutations that may confer antibiotic resistance.

COMPANY LOCATION

Achaogen Inc is headquartered in San Francisco, CA where it has a state-of-the-art research facility.

LICENSING AGREEMENTS

In January 2008, ChemDiv entered into an agreement with Achaogen to discover and develop antibacterial compounds. Financial terms were not disclosed.

In June 2007, Albany Molecular Research (AMRI) agreed to screen its natural product libraries against Achaogen's therapeutic targets for antibiotic resistance. AMRI would also provide other discovery and follow-up services, and will receive upfront fees, milestones and royalties.

In August 2004, Achaogen entered into a small-molecule research and discovery collaboration with NeoGenesis Pharmaceuticals Inc. NeoGenesis would use its drug discovery technologies, including its ALIS (Automated Ligand Identification System) platform, NeoMorph compound libraries and lead optimization technologies to discover drug candidates against selected targets.

EARLY R&D

By April 2010, the company was investigating 'neoglycosides', next generation aminoglycosides, which have demonstrated broad-spectrum activity against multi-drug resistant gram-negative bacterial infections.

FINANCIAL

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In January 2014, Achaogen filed a registration statement with the US SEC for a proposed initial public offering of its common stock shares. In March 2014, the company priced an IPO of 6 million shares of common stock at \$12.00 per share and granted the underwriters a 30-day option to buy up to an additional 900,000 shares to cover any over-allotments. The shares were expected to begin trading on the NASDAQ Global Market under the ticker symbol "AKAO" on March 12, 2014. At that time, the offering was expected to close on March 17, 2014. Later that month, the offering was closed and the company raised gross proceeds of \$82.8 million and net proceeds of approximately \$73.9 million, from the IPO of 6.9 million shares, including full exercise of underwriters overallotment option. The shares had begun trading on the NASDAQ under the ticker symbol "AKAO".

In April 2010, the company raised \$56 million from the closing of a series C financing round.

In October 2006, Achaogen was awarded a 4-year, \$24.7 million contract from the Defense Threat Reduction Agency for the development of therapies for anthrax and other biothreat agents.

Earlier in October 2006, Achaogen raised over \$26 million from a series B financing round.

COMPANY FINANCIALS

SHARE INFORMATION

Close Price (USD)	12.35
Change (USD)	-0.16 (-1.28%)
Previous Close Price (USD)	12.51
Volume	79,435
52-Week High (USD)	19.69
52-Week Low (USD)	7.72
Date	16-Jan-2015
Exchange	NASDAQ(COMPOSITE)
Current Number of Shares Outstanding	17,757,874
Current Market Capitalization	219,309,744
EPS (Date Reported)	

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STOCK PERFORMANCE



MAJOR SHAREHOLDERS

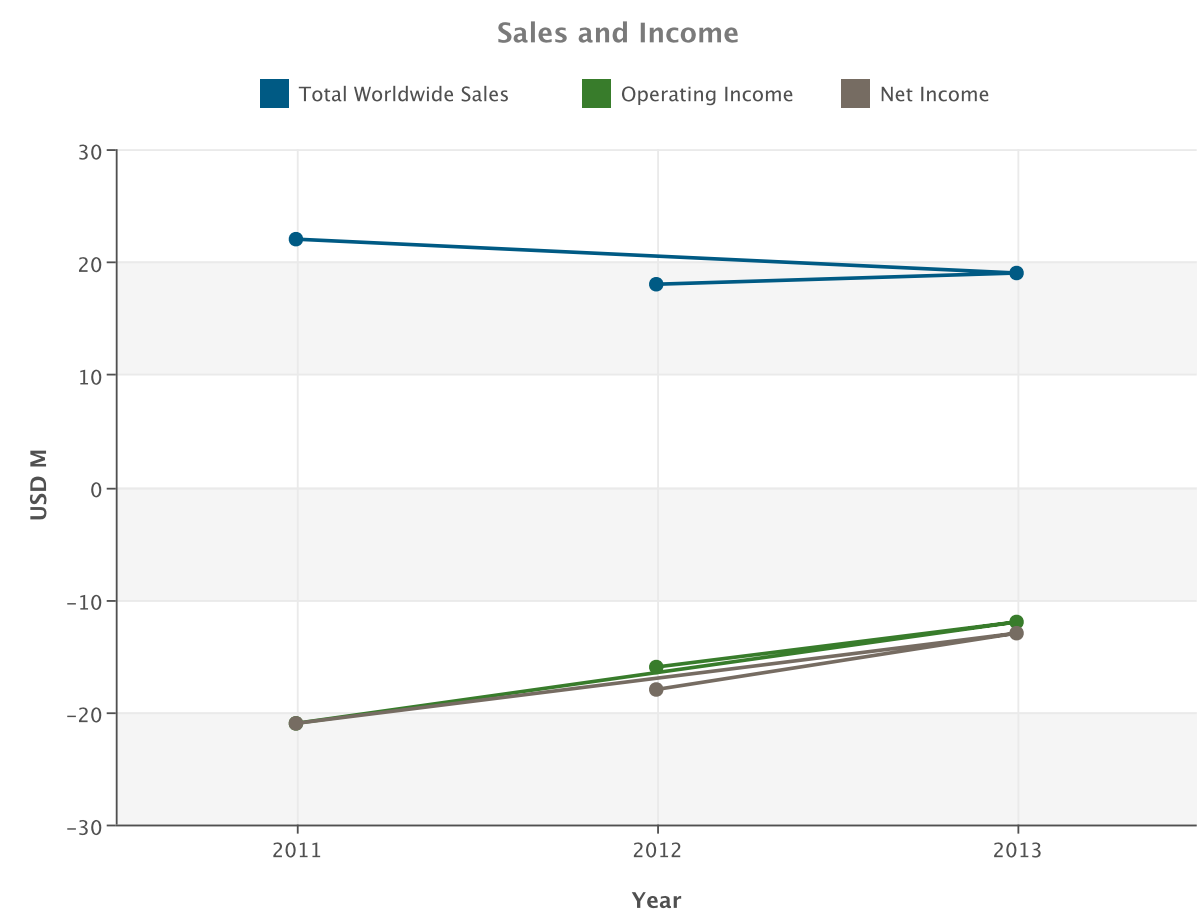
Shareholder	Type	Country	Shares held	% of shares held	Change in holding	% changes in shares held	Date
Wellcome Trust	Endowment Fund	England	1,526,955	8.6	-48,523	-0.03	31-Dec-2014
Fidelity Select Biotechnology Portfolio	Mutual Fund	United States	901,382	5.08	0	0	30-Nov-2014
Fidelity OTC Portfolio	Mutual Fund	United States	847,200	4.77	0	0	30-Nov-2014
Fidelity Blue Chip Growth Fund	Mutual Fund	United States	331,200	1.87	0	0	30-Nov-2014
Fidelity Independence Fund	Mutual Fund	United States	216,300	1.22	0	0	30-Nov-2014
BlackRock Health Sciences Opportunities Portfolio	Mutual Fund	United States	183,711	1.03	0	0	30-Nov-2014
iShares Russell 2000 ETF	Mutual Fund	United States	116,583	0.66	14,743	0.14	31-Dec-2014
Fidelity Series Blue Chip Growth Fund	Mutual Fund	United States	161,500	0.91	0	0	30-Nov-2014
Vanguard Total Stock Market Index Fund	Mutual Fund	United States	144,172	0.81	0	0	30-Nov-2014

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Fidelity Advisor Biotechnology Fund	Mutual Fund	United States	141,215	0.8	0	0	30-Nov-2014
iShares Russell 2000 Growth ETF	Mutual Fund	United States	51,070	0.29	3,942	0.08	31-Dec-2014
Met Inv. Ser. Trust Blackrock Large-Cap Core Portf	Mutual Fund	United States	60,140	0.34	0	0	30-Nov-2014
Vanguard Extended Market Index Fund	Mutual Fund	United States	50,919	0.29	65	0	30-Nov-2014
Principal SmallCap Blend Fund	Mutual Fund	United States	48,100	0.27	0	0	30-Nov-2014
Fidelity VIP II Asset Manager Portfolio	Mutual Fund	United States	27,600	0.16	0	0	30-Nov-2014
iShares Micro-Cap ETF	Mutual Fund	United States	18,189	0.1	1,296	0.08	31-Dec-2014
Fidelity Spartan Extended Market Index Fund	Mutual Fund	United States	23,491	0.13	3,777	0.19	30-Nov-2014
VALIC Co I Health Sciences Fund	Mutual Fund	United States	19,200	0.11	0	0	30-Nov-2014
John Hancock Funds II - Health Sciences Fund	Mutual Fund	United States	18,900	0.11	0	0	30-Nov-2014
JPMorgan Small Cap Value Fund	Mutual Fund	United States	17,600	0.1	400	0.02	30-Nov-2014

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	2012	2013	2011		
Sales (USD M)	17.941	18.512	22.474		
Operating Income (USD M)	-15.989	-11.964	-20.715		
Net Income (USD M)	-18.365	-13.112	-20.866		

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Quarterly earnings update

Period	Sales (USD M)	Operating Income (USD M)	Net Income (USD M)
2014 Q3	4.52	-8.333	-8.312
2014 Q2	5.203	-3.338	-3.555
2014 Q1	5.988	-3.234	-3.455
2013 Q4	6.192	-2.181	-2.486
2013 Q2	4.498	-4.206	-4.31
2013 Q1	3.533	-3.282	-3.753
2012 Q4	3.97	-1.256	-1.88

BALANCE SHEET

Assets (USD M)

	2011	2012	2013		
Cash & Short Term Investments	12.528	7.073	10.738		
Inventories - Total	0	0	0		
Current Assets - Total	17.884	11.728	19.841		
Property, Plant And Equipment - Net	1.341	1.344	0.743		
Other Assets - Total	0.091	0.067	0.047		
Total Assets	19.478	13.266	20.758		

Liabilities (USD M)

	2011	2012	2013		
Accounts Payable	2.93	2.91	2.923		
Short Term Debt & Current Portion Of Long Term Debt	0.447	7.223	4.989		
Current Liabilities - Total	7.124	12.034	10.989		
Long Term Debt	6.648	11.752	1.698		
Other Liabilities	0.256	1.635	0.244		
Total Liabilities	14.34	25.49	13.056		

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Stockholders Equity (USD M)

	2011	2012	2013		
Minority Interest	0	0	0		
Preferred Stock	100.354	100.354	132.278		
Common Stock	0.003	0.004	0		
Treasury Stock	0	0			
Total Liabilities & Shareholders' Equity	19.478	13.266	20.758		

FORECASTS

EPS Forecast

Year ending	Current Forecast	1 month ago	3 months ago
31-Dec-2015	-1.19	-1.19	-1.07
31-Dec-2016	-1.33	-1.33	-1.25
31-Dec-2017	-1.59	-1.59	-1.42

Other Forecasts

Year ending	DPS	CPS	Pretax	Sales
31-Dec-2015	0	-0.8	-20.6	23.75
31-Dec-2016	0	-1	-27.32	20.52
31-Dec-2017			-34.4	12.82

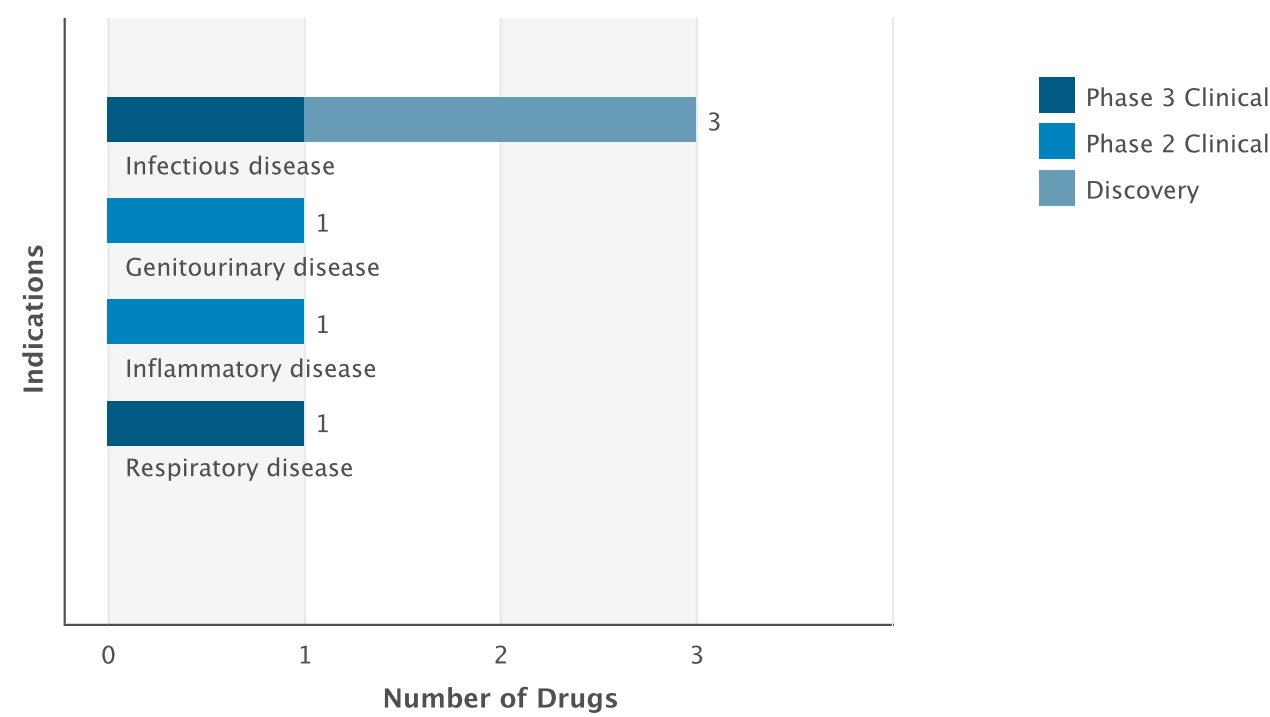
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PRODUCT PORTFOLIO SUMMARY

DRUGS

Drugs by Indication

Active Drugs by Indication Chart



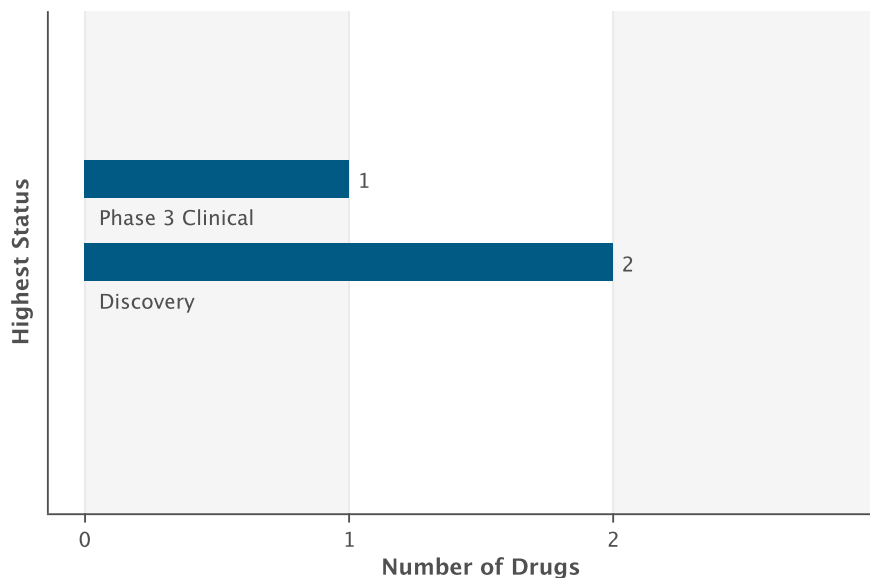
Drugs by Indication Table

Indication	Active	Inactive	Total
Infectious disease	3	3	6
Inflammatory disease	1	0	1
Respiratory disease	1	0	1
Genitourinary disease	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 3 Clinical	1
Discovery	2
No Development Reported	3

DEALS

Deal Type	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Drug - Discovery/Design	0	0	3	0	3
Technology - Other Proprietary	0	0	1	0	1
Patent - Exclusive Rights	0	0	1	0	1
Drug - Funding	2	0	1	0	5
Drug - Development/Commercialization License	0	0	1	0	1
Technology - Target Validation	0	0	1	0	1

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CLINICAL TRIALS

Trials by Condition Studied

Condition Studied	Ongoing	All
Infectious disease	1	5
Respiratory disease	1	2
Inflammatory disease	0	1
Genitourinary disease	0	1

Trials by Phase

Phase	Ongoing	All
Phase 3	1	3
Phase 2	0	1
Phase 1	0	7
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 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
Gastrointestinal disease	5	0	5
Genitourinary disease	1	0	1
Neoplasm	2	1	3
Respiratory disease	9	0	9
Infectious disease	36	1	37
Toxicity and intoxication	1	0	1

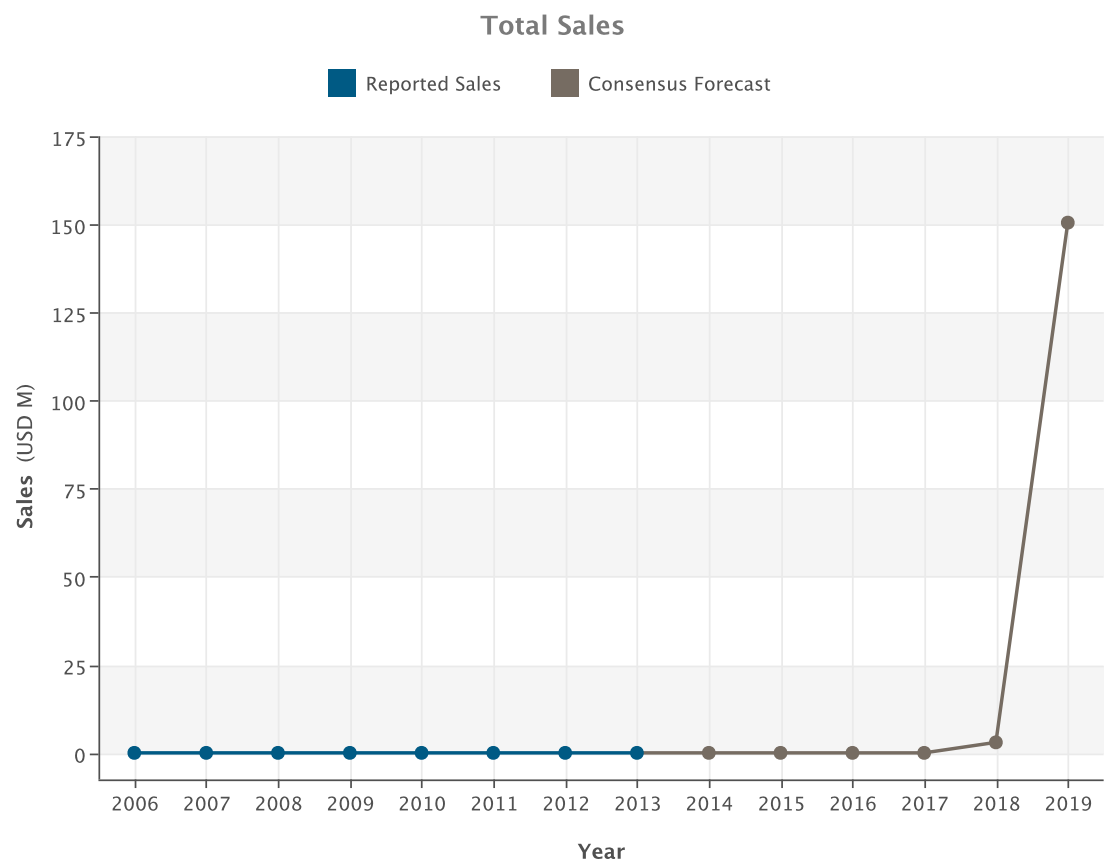
* This table represents a summary of the core patent coverage for this company covering Therapeutic EP, US and WO patents since 1990 only.

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PRODUCT PORTFOLIO FINANCIALS

DRUG SALES AND FORECASTS



Drug Sales as a Share of the Total Sales 2018



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PRODUCT PORTFOLIO DRUGS

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

plazomicin

Drug Name	plazomicin
Key Synonyms	plazomicin sulfate, plazomicin
Originator Company	Ibis Therapeutics
Active Companies	Achaogen Inc
Inactive Companies	Ibis Therapeutics
Highest Status	Phase 3 Clinical
Active Indications	Bacterial urinary tract infection, Bacterial pneumonia, Sepsis, Pyelonephritis, Enterobacteriaceae infection
Target-based Actions	
Other Actions	Aminoglycoside antibiotic, Antibacterial multidrug resistance inhibitor, Antibacterial
Technologies	Intravenous formulation, Antibiotic, Infusion, Small molecule therapeutic
Last Change Date	09-Jan-2015

expanded-spectrum neoglycosides (Gram-negative bacterial infection), Achaogen

Drug Name	expanded-spectrum neoglycosides (Gram-negative bacterial infection), Achaogen
Key Synonyms	
Originator Company	Achaogen Inc
Active Companies	Achaogen Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Gram negative bacterium infection
Target-based Actions	
Other Actions	Antibacterial multidrug resistance inhibitor, Aminoglycoside antibiotic, RNA modulator
Technologies	Antibiotic, Small molecule therapeutic
Last Change Date	10-Apr-2012

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LpxC membrane biosynthesis inhibitors (multidrug-resistant bacterial infection), Achaogen

Drug Name	LpxC membrane biosynthesis inhibitors (multidrug-resistant bacterial infection), Achaogen
Key Synonyms	
Originator Company	Achaogen Inc
Active Companies	Achaogen Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Gram negative bacterium infection, Multidrug resistant infection
Target-based Actions	LpxC inhibitor
Other Actions	Antibacterial multidrug resistance inhibitor
Technologies	Systemic formulation unspecified, Antibiotic, Small molecule therapeutic
Last Change Date	18-Nov-2013

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