

## FibroGen 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](http://thomsonreuters.com)

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i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.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

## COMPANY OVERVIEW

<b>Company Name</b>	FibroGen Inc
<b>Parent Company Name</b>	FibroGen Inc
<b>Website</b>	<a href="http://www.fibrogen.com/">http://www.fibrogen.com/</a>
<b>Country</b>	US
<b>Number of Drugs in Active Development</b>	4
<b>Number of Inactive Drugs</b>	8
<b>Number of Patents as Owner</b>	73
<b>Number of Patents as Third Party</b>	2
<b>Number of Deals</b>	13
<b>Key Indications</b>	Anemia, Pancreas tumor, Glioma, Idiopathic pulmonary fibrosis, Diabetic nephropathy, Duchenne dystrophy, Focal segmental glomerulosclerosis, Glaucoma, Liver fibrosis, Ischemia
<b>Key Target-based Actions</b>	HIF prolyl hydroxylase inhibitor, TGF beta antagonist, Connective tissue growth factor ligand inhibitor, Bone morphogenetic protein-1 ligand inhibitor, HIF prolyl hydroxylase-1 modulator, Hydroxylase inhibitor, Angiotensin receptor antagonist, CD66e antagonist, CTGF gene inhibitor, Calcineurin inhibitor, Erythropoietin receptor agonist, HIF prolyl hydroxylase-1 inhibitor, Hydroxylase modulator, IL-6 agonist, LDL receptor antagonist, Prolyl hydroxylase inhibitor, TGF beta agonist
<b>Key Technologies</b>	Small molecule therapeutic, Biological therapeutic, Oral formulation, Protein recombinant, Capsule formulation, Monoclonal antibody human, Tablet formulation, Infusion, Intravenous formulation, Peptide

## COMPANY PROFILE

### SUMMARY

FibroGen Inc, a spin-out of Duke University, founded in 1994, is a privately held biotechnology company which has developed the only commercially viable method known to produce human collagen and human gelatin in recombinant systems. The company's therapeutic target areas include fibrotic disorders affecting the major organs, diabetes, surgical procedures, and fibroproliferative tumor progression and metastasis.

### COMPANY LOCATION

Fibrogen's headquarters are in San Francisco, CA. Fibrogen Europe, a subsidiary of Fibrogen based in Helsinki, Finland, is a biotechnology focused enterprise that specialises in the development of recombinant collagens and gelatins.

In March 2015, the Beijing Chinese FDA had completed the inspections and issued the Pharmaceutical Production Permit (PPP) to FibroGen China facility as per GMP standards.

### LICENSING AGREEMENTS

In January 2001, FibroGen and Aventis Pasteur formed a collaboration agreement to develop, using FibroGen's proprietary technology, novel synthetic gelatins with the potential to confer optimum stabilization and activity attenuation specific for certain Aventis Pasteur vaccines.

As of October 1999, FibroGen had a research and development agreement with Medarex Inc to develop monoclonal antibodies to block the fibrogenic cascade. In July 1998, FibroGen signed an agreement with Medarex for the use of the HuMab mouse antibody technology to develop potential antifibrotic therapies using FibroGen's proprietary targets.

In September 1999, FibroGen announced a collaboration with Taisho Pharmaceutical Co Ltd to develop and commercialize human monoclonal antibodies for the treatment of fibrotic kidney diseases; however, no development has been reported by Taisho since May 2002 and in August 2005 this strategic alliance was not listed on FibroGen's

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website.

In 1997, FibroGen licensed ArQule's Mapping Array program to discover and develop drug candidates for fibrosis and excessive scarring; however, since 2002, no development had been reported on this deal.

## EARLY R&D/TECHNOLOGY UPDATES/IP NEWS

In December 1998, FibroGen received US-05837258, covering the use of connective tissue growth factor to induce the repair of connective tissue, including bone, cartilage and skin.

As of June 1998, programs were underway at FibroGen for the development of small-molecules which modulate collagen scar formation and human antibodies to neutralize cytokine and enzyme targets.

## FINANCIAL

In October 2014, FibroGen filed a registration statement on Form S1 with the US SEC relating to a proposed initial public offering of shares of its common stock. In November 2014, the company announced the pricing of 8,100,000 shares of its common stock at a public offering price of \$18.00 per share before underwriting discounts and commissions on the NASDAQ Global Market under the ticker symbol 'FGEN'. At that time, the underwriters were granted a 30-day option to purchase up to 1,215,000 additionally at the initial offering price and the offering was expected to be closed on November 19, 2014; later that month, the company announced that the underwriters of its initial public offering were exercised in full option to purchase an additional 1,215,000 shares of common stock from FibroGen less than the underwriting discount. The initial public offering was a total of 9,315,000 shares of common stock of FibroGen, with gross proceeds of approximately \$167.7 million, prior to deducting the underwriting discount and estimated offering expenses. The Company's common stock started trading on the NASDAQ Global Select Market. At that time, the company raised a net proceeds of \$171.8 million from the IPO.

In February 2005, FibroGen raised net proceeds of \$100 million from a completed a private placement of convertible preferred stock, 15% of which was sold to existing investors. The funds would be used to expand the company's clinical trial activities including anemia, idiopathic pulmonary fibrosis and diabetic nephropathy. New clinical programs in acute renal failure and in rare diseases in anemia and in fibrosis would also be launched, and the metastatic cancers program extended. The funds would also be used for efficacy studies and commercial-scale manufacturing of injectable recombinant human collagen.

In September 2000, FibroGen completed a \$56.7 million private placement of convertible preferred stock.

## R&D GRANTS

In April 1999, the Finnish government reported that it would fund 50% of the company's recombinant collagen and gelatin costs.

## COMPANY FINANCIALS

### SHARE INFORMATION

<b>Close Price (USD)</b>	25.45
<b>Change (USD)</b>	-0.10 (-0.39%)
<b>Previous Close Price (USD)</b>	25.55
<b>Volume</b>	357,158
<b>52-Week High (USD)</b>	40.59
<b>52-Week Low (USD)</b>	16.95
<b>Date</b>	06-Nov-2015
<b>Exchange</b>	NASDAQ(COMPOSITE)
<b>Current Number of Shares Outstanding</b>	59,267,869

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<b>Current Market Capitalization</b>	1,541,376,705
<b>EPS (Date Reported)</b>	-3.16932

## STOCK PERFORMANCE



## MAJOR SHAREHOLDERS

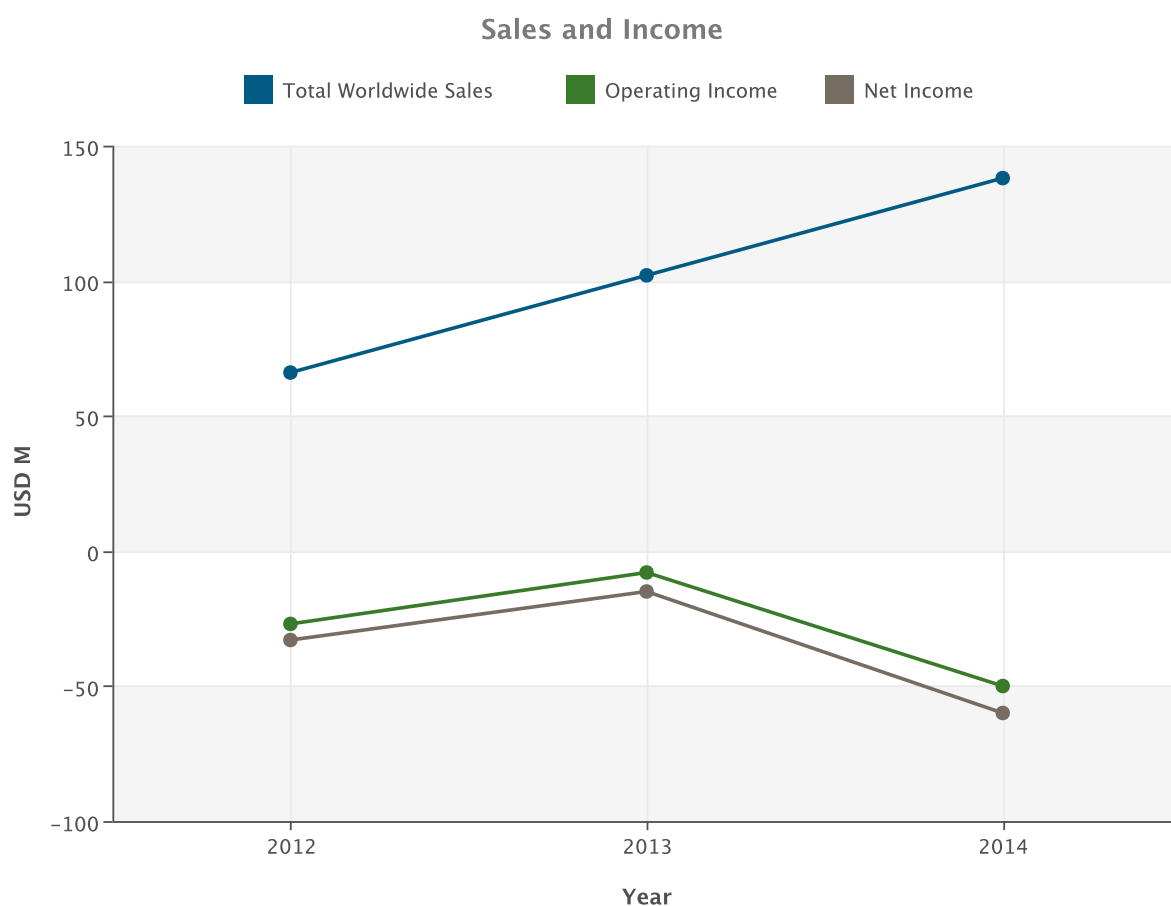
Shareholder	Type	Country	Shares held	% of shares held	Change in holding	% changes in shares held	Date
Neff (Thomas B)	Individual Investor	United States	3,929,705	6.49	-81,000	-0.02	30-Oct-2015
iShares Russell 2000 ETF	Mutual Fund	United States	715,080	1.18	-16,817	-0.02	31-Oct-2015
iShares Russell 2000 Growth ETF	Mutual Fund	United States	369,293	0.61	1,239	0	31-Oct-2015
Kearns (Thomas F Jr)	Individual Investor	United States	267,736	0.44	-7,800	-0.03	21-Oct-2015
Yu (K Peony)	Individual Investor	United States	164,930	0.27	-10,000	-0.06	19-Oct-2015
Valone (Frank H)	Individual Investor	United States	61,544	0.1	0	0	02-Nov-2015
iShares Russell 3000 ETF	Mutual Fund	United States	12,917	0.02	104	0.01	31-Oct-2015

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iShares Morningstar Small-Cap Growth ETF	Mutual Fund	United States	11,880	0.02	-56	-0	31-Oct-2015
Fidelity MSCI Health Care Index ETF	Mutual Fund	United States	10,272	0.02	-639	-0.06	31-Oct-2015
ProFund Advisors LLC	Investment Advisor	United States	8,277	0.01	-3	-0	31-Oct-2015
iShares Russell 3000 Growth ETF	Mutual Fund	United States	3,511	0.01	17	0	31-Oct-2015
Guggenheim Investments	Investment Advisor/Hedge Fund	United States	1,876	0	0	0	31-Oct-2015
ProShares Hedge Replication ETF	Mutual Fund	United States	49	0	-3	-0.06	31-Oct-2015

## FINANCIAL PERFORMANCE



	2012	2013	2014		
<b>Sales (USD M)</b>	65.933	102.17	137.601		
<b>Operating Income (USD M)</b>	-27.223	-7.949	-50.102		

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	2012	2013	2014		
<b>Net Income (USD M)</b>	-32.571	-14.943	-59.504		

### Quarterly earnings update

Period	Sales (USD M)	Operating Income (USD M)	Net Income (USD M)
2015 Q2	120.55	59.315	57.055
2015 Q1	16.298	-44.723	-46.367
2014 Q4	16.105	-47.974	-50.56
2014 Q3	13.662	-37.095	-18.797
2014 Q2	89.958	49.173	26.093
2014 Q1	17.876	-14.206	-16.24
2013 Q4	12.39	-24.955	-15.528
2013 Q3	71.248	41.176	28.058
2013 Q2	15.695	-7.484	-9.297
2013 Q1	2.837	-16.686	-18.176

### BALANCE SHEET

#### Assets (USD M)

	2012	2013	2014		
<b>Cash &amp; Short Term Investments</b>	39.889	122.809	179.819		
<b>Inventories - Total</b>	0	0	0		
<b>Current Assets - Total</b>	52.803	143.643	198.238		
<b>Property, Plant And Equipment - Net</b>	123.664	129.898	132.171		
<b>Other Assets - Total</b>	0.254	0.801	1.596		
<b>Total Assets</b>	265.588	296.952	483.528		

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## Liabilities (USD M)

	2012	2013	2014		
Accounts Payable	3.107	1.066	4.551		
Short Term Debt & Current Portion Of Long Term Debt	1.698	1.113	0.587		
Current Liabilities - Total	23.678	37.479	62.754		
Long Term Debt	110.546	114.847	113.283		
Deferred Taxes	0	0			
Other Liabilities	5.809	6.115	5.827		
Total Liabilities	143.404	189.349	242.852		

## Stockholders Equity (USD M)

	2012	2013	2014		
Minority Interest	27.7	27.875	19.271		
Preferred Stock	304.749	304.749	0		
Common Stock	0.132	0.132	0.59		
Treasury Stock	0	0			
Total Liabilities & Shareholders' Equity	265.588	296.952	483.528		

## FORECASTS

### EPS Forecast

Year ending	Current Forecast	1 month ago	3 months ago
31-Dec-2015	-0.81	-0.96	-1.31
31-Dec-2016	-1.25	-1.29	-1.46
31-Dec-2017	-1.89	-2.06	-1.67

### Other Forecasts

Year ending	DPS	CPS	Pretax	Sales
31-Dec-2015	0		-47.32	211.03
31-Dec-2016	0		-82.16	174.58
31-Dec-2017	0		-126.47	174.08

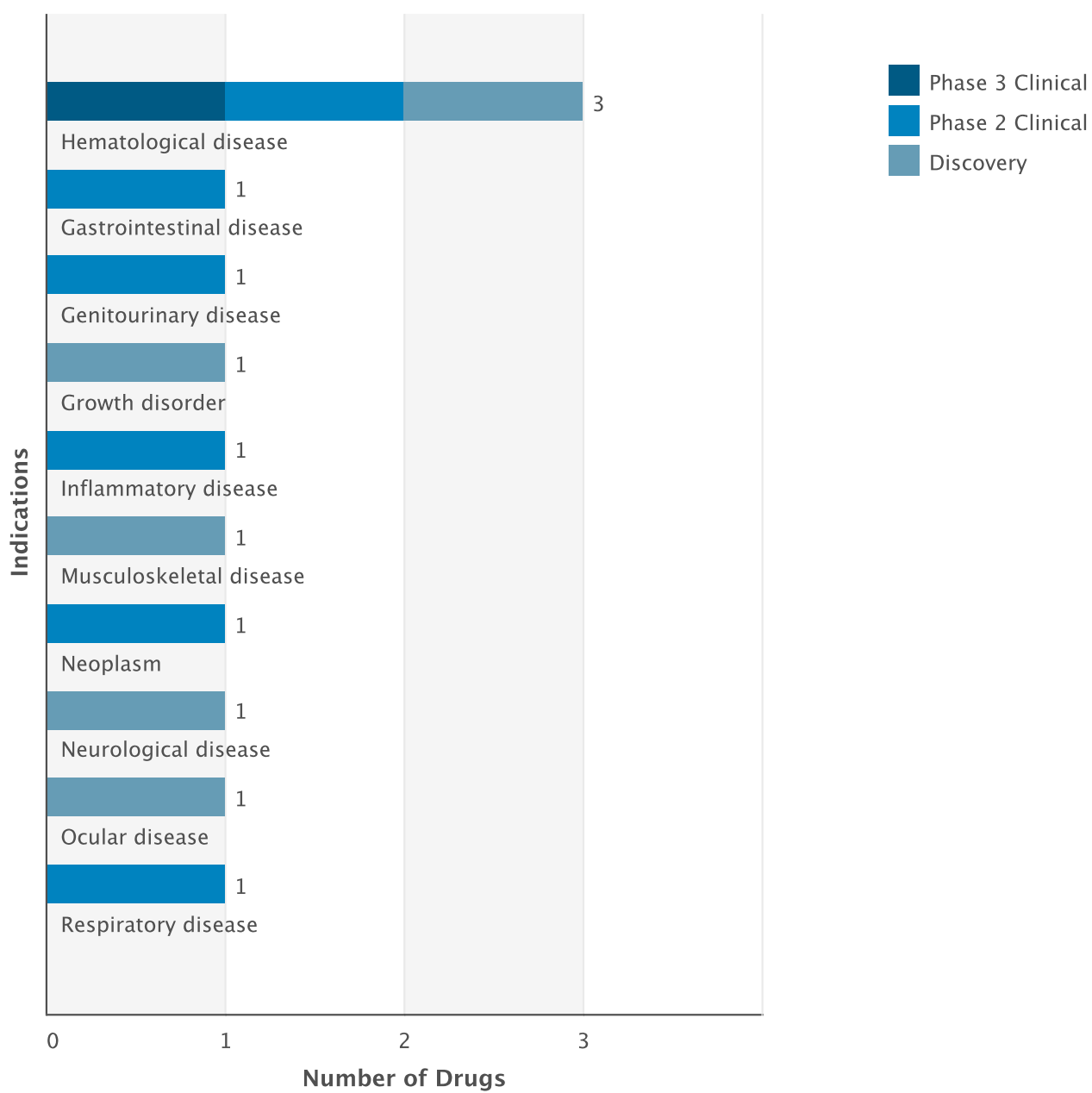
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## PRODUCT PORTFOLIO SUMMARY

### DRUGS

#### Drugs by Indication

Active Drugs by Indication Chart



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## Drugs by Indication Table

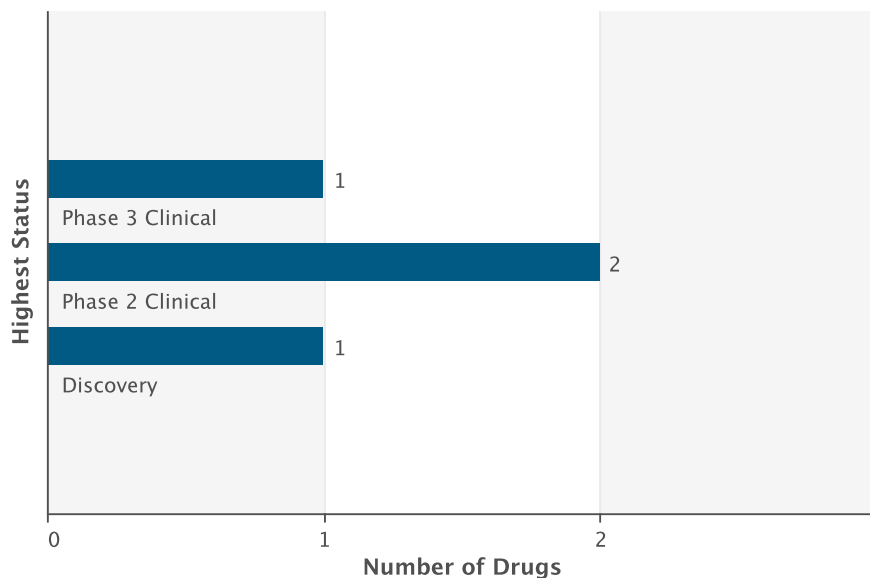
Indication	Active	Inactive	Total
Inflammatory disease	1	4	5
Hematological disease	3	1	4
Musculoskeletal disease	1	2	3
Neurological disease	1	2	3
Gastrointestinal disease	1	1	2
Cardiovascular disease	0	2	2
Neoplasm	1	1	2
Injury	0	2	2
Genitourinary disease	1	1	2
Ocular disease	1	0	1
Dermatological disease	0	1	1
Growth disorder	1	0	1
Genetic disorder	0	1	1
Immune disorder	0	1	1
Respiratory 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
No Development Reported	8
Discovery	1
Phase 2 Clinical	2

## DEALS

Deal Type	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Drug - Funding	3	0	0	0	3
Technology - Target Validation	0	0	1	0	1
Drug - Development/Commercialization License	4	0	1	0	5
Patent - Exclusive Rights	0	0	1	0	1
Technology - Other Proprietary	1	0	2	0	3

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## CLINICAL TRIALS

### Trials by Condition Studied

Condition Studied	Ongoing	All
Hematological disease	9	23
Genitourinary disease	0	8
Inflammatory disease	2	5
Gastrointestinal disease	2	5
Respiratory disease	2	3
Metabolic disorder	0	3
Endocrine disease	0	3
Neoplasm	1	2
Dermatological disease	0	1
Cardiovascular disease	0	1
Genetic disorder	0	1
Neurological disease	0	1

### Trials by Phase

Phase	Ongoing	All
Phase 3	8	9
Phase 2	4	16
Phase 1	1	13
Phase not specified	0	2

### 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
Degeneration	1	0	1

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Immune disorder	10	0	10
Psychiatric disorder	1	0	1
Musculoskeletal disease	17	2	19
Neoplasm	15	1	16
Ocular disease	6	0	6
Cardiovascular disease	35	1	36
Endocrine disease	13	0	13
Gastrointestinal disease	24	0	24
Genitourinary disease	25	1	26
Growth disorder	3	0	3
Hematological disease	25	0	25
Gynecology and obstetrics	3	0	3
Dermatological disease	5	0	5
Ulcer	2	0	2
Genetic disorder	1	0	1
Metabolic disorder	18	2	20
Neurological disease	15	1	16
Nutritional disorder	2	0	2
Prophylaxis	1	0	1
Respiratory disease	24	0	24
Infectious disease	7	0	7
Injury	6	0	6
Inflammatory disease	30	3	33
Surgical procedure	0	1	1

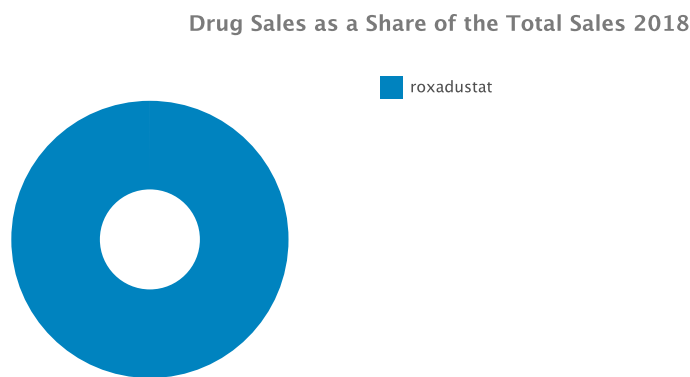
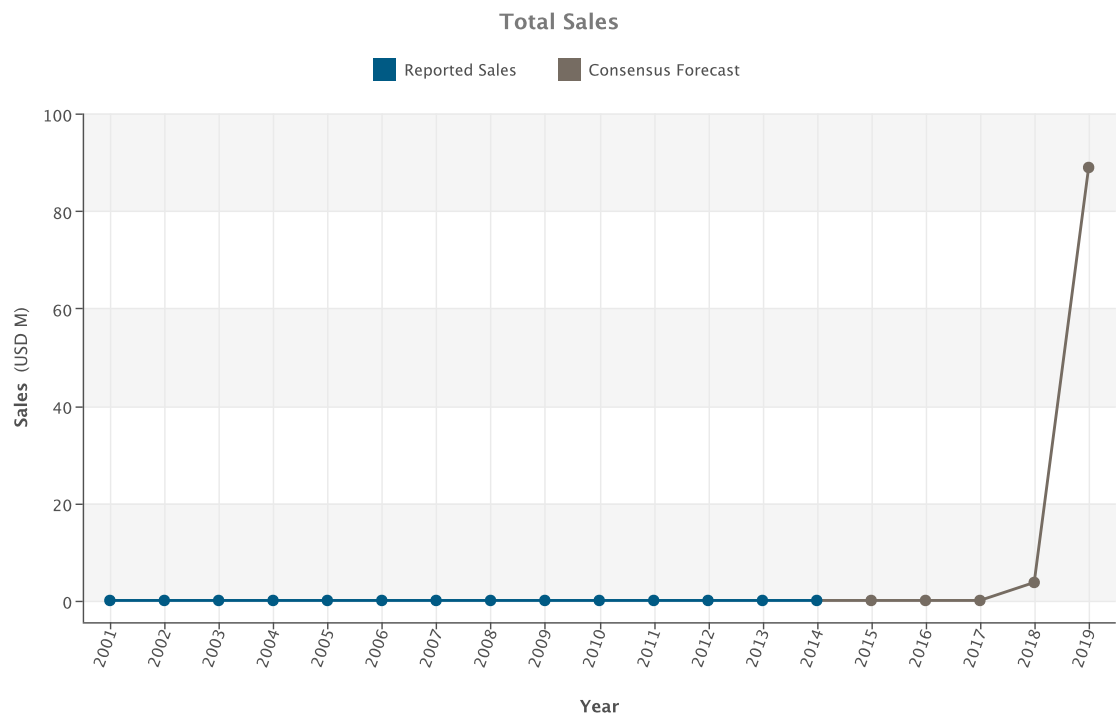
\* This table represents a summary of the core patent coverage for this company covering Therapeutic EP, US and WO patents since 1990 only.

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PRODUCT PORTFOLIO FINANCIALS

DRUG SALES AND FORECASTS



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## PRODUCT PORTFOLIO DRUGS

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

### roxadustat

<b>Drug Name</b>	roxadustat
<b>Key Synonyms</b>	roxadustat, ciclopirox
<b>Originator Company</b>	FibroGen Inc
<b>Active Companies</b>	Astellas Pharma Inc, AstraZeneca plc, FibroGen Inc
<b>Inactive Companies</b>	Zeneca Group plc
<b>Highest Status</b>	Phase 3 Clinical
<b>Active Indications</b>	Anemia
<b>Target-based Actions</b>	HIF prolyl hydroxylase inhibitor
<b>Other Actions</b>	Erythropoietin modulator
<b>Technologies</b>	Tablet formulation, Oral formulation, Capsule formulation, Small molecule therapeutic
<b>Last Change Date</b>	28-Sep-2015

### FG-3019

<b>Drug Name</b>	FG-3019
<b>Key Synonyms</b>	pamrevlumab
<b>Originator Company</b>	FibroGen Inc
<b>Active Companies</b>	FibroGen Inc
<b>Inactive Companies</b>	Taisho Pharmaceutical Co Ltd
<b>Highest Status</b>	Phase 2 Clinical
<b>Active Indications</b>	Diabetic nephropathy, Duchenne dystrophy, Liver fibrosis, Pancreas tumor, Glaucoma, Glioma, Focal segmental glomerulosclerosis, Idiopathic pulmonary fibrosis
<b>Target-based Actions</b>	Connective tissue growth factor ligand inhibitor
<b>Other Actions</b>	Anticancer monoclonal antibody, Angiogenesis inhibitor, Fibrosuppressant
<b>Technologies</b>	Intravenous formulation, Protein recombinant, Monoclonal antibody human, Infusion, Biological therapeutic
<b>Last Change Date</b>	14-Aug-2015

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**FG-2216**

<b>Drug Name</b>	FG-2216
<b>Key Synonyms</b>	
<b>Originator Company</b>	FibroGen Inc
<b>Active Companies</b>	FibroGen Inc, Astellas Pharma Inc
<b>Inactive Companies</b>	Yamanouchi Pharmaceutical Co Ltd
<b>Highest Status</b>	Phase 2 Clinical
<b>Active Indications</b>	Anemia
<b>Target-based Actions</b>	HIF prolyl hydroxylase inhibitor
<b>Other Actions</b>	Erythropoietin release stimulator, Hematopoietic stimulant
<b>Technologies</b>	Oral formulation, Small molecule therapeutic
<b>Last Change Date</b>	03-Feb-2015

**next generation HIF-PH inhibitors (anemia), FibroGen**

<b>Drug Name</b>	next generation HIF-PH inhibitors (anemia), FibroGen
<b>Key Synonyms</b>	
<b>Originator Company</b>	FibroGen Inc
<b>Active Companies</b>	FibroGen Inc
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Anemia
<b>Target-based Actions</b>	HIF prolyl hydroxylase inhibitor
<b>Other Actions</b>	Blood system agent
<b>Technologies</b>	Small molecule therapeutic
<b>Last Change Date</b>	25-Sep-2014

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