

Atara Biotherapeutics Inc

CORTELLIS COMPANY DETAILED PIPELINE REPORT

A comprehensive coverage of the the company's drug pipeline portfolio including detailed product records.

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THOMSON REUTERS

3 Times Square New York, New York 10036 United States

Tel: +1 646 223 4000

thomsonreuters.com



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i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.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

COMPANY OVERVIEW

| Company Name | Atara Biotherapeutics Inc |
|--|---|
| Parent Company Name | Atara Biotherapeutics Inc |
| Website | http://www.atarabio.com/ |
| Country | US |
| Number of Drugs in Active Development | 3 |
| Number of Inactive Drugs | 0 |
| Number of Patents as Owner | 1 |
| Number of Patents as Third Party | 0 |
| Number of Deals | 1 |
| Key Indications | Cachexia, Cancer, End stage renal disease, Protein energy deficiency |
| Key Target-based Actions | GDF-8 antagonist |
| Key Technologies | Peptide, Antibody fragment, Biological therapeutic, Infusion, Intravenous formulation |

COMPANY PROFILE

SUMMARY

Atara Biotherapeutics Inc, which was formed by Amgen and Kleiner Perkins Caufield & Byers, is a drug development company focused on treatments for chronic diseases in areas such as nephrology and oncology.

FINANCIAL

In October 2014, Atara announced the pricing of its initial public offering of 5 million shares of its common stock at a price of \$11 per share. The shares began trading on the NASDAQ global select market under the ticker symbol "ATRA". The company had granted the underwriters a 30-day option to buy up to an additional 750,000 shares of common stock to cover over-allotments, if any. The offering was expected to close on October 21, 2014. Altara began trading on the NASDAQ market on October 16, 2014.

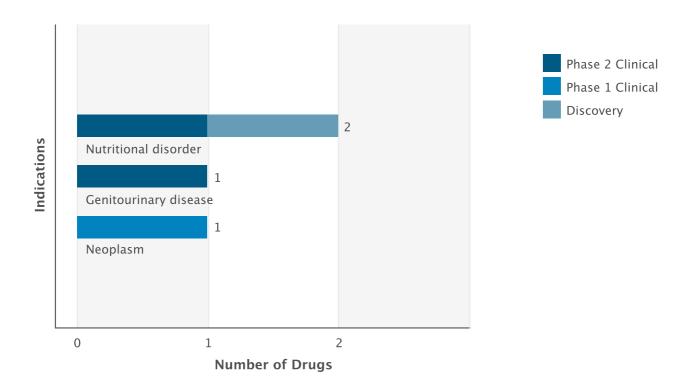
In December 2013, Atara raised \$38.5 million from a series B financing round. In January 2014, a second tranche of the series B financing was closed which bought the total raised in the financing round to \$52 million.

PRODUCT PORTFOLIO SUMMARY

DRUGS

Drugs by Indication

Active Drugs by Indication Chart

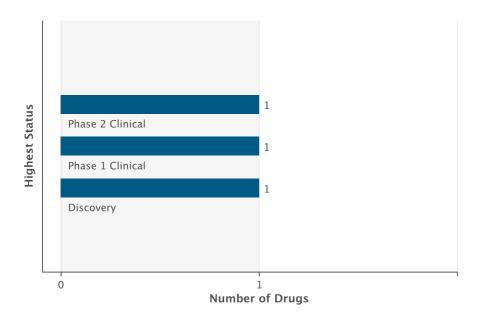


Drugs by Indication Table

| Indication | Active | Inactive | Total |
|-----------------------|--------|----------|-------|
| Nutritional disorder | 2 | 0 | 2 |
| Neoplasm | 1 | 0 | 1 |
| Genitourinary 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 2 Clinical | 1 |
| Phase 1 Clinical | 1 |
| Discovery | 1 |

DEALS

| Deal Type | Principal | | Par | Total | |
|--|-----------|----------|--------|----------|---|
| | Active | Inactive | Active | Inactive | |
| Drug - Development/Commercialization License | 0 | 0 | 1 | 0 | 1 |

CLINICAL TRIALS

Trials by Condition Studied

| Condition Studied | Ongoing | All |
|-----------------------|---------|-----|
| Genitourinary disease | 1 | 1 |

Trials by Phase

| Phase | Ongoing | All |
|---------|---------|-----|
| Phase 1 | 1 | 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 |
|--------------------------|----------|----------------|-------|
| Cardiovascular disease | 1 | 0 | 1 |
| Endocrine disease | 1 | 0 | 1 |
| Gastrointestinal disease | 1 | 0 | 1 |
| Growth disorder | 1 | 0 | 1 |
| Immune disorder | 1 | 0 | 1 |
| Musculoskeletal disease | 1 | 0 | 1 |
| Neoplasm | 1 | 0 | 1 |
| Metabolic disorder | 1 | 0 | 1 |
| Neurological disease | 1 | 0 | 1 |
| Nutritional disorder | 2 | 0 | 2 |
| Injury | 1 | 0 | 1 |
| Inflammatory disease | 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 DRUG PIPELINE DETAIL

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

PINTA-745

PINTA-745 SNAPSHOT

| Drug Name PINTA-745 Key Synonyms Pinta Biotherapeutics Originator Company Pinta Biotherapeutics Active Companies Pinta Biotherapeutics Highest Status Phase 2 Clinical Active Indications Protein energy deficiency;End stage renal disease Target-based Actions GDF-8 antagonist Other Actions Renal system agent Technologies Antibody fragment;Intravenous formulation;Infusion;Biological therapeutic;Peptide Last Change Date 18-Dec-2013 | | |
|--|----------------------|---|
| Originator Company Pinta Biotherapeutics Pinta Biotherapeutics Inactive Companies Highest Status Phase 2 Clinical Active Indications Protein energy deficiency; End stage renal disease Target-based Actions GDF-8 antagonist Other Actions Renal system agent Antibody fragment; Intravenous formulation; Infusion; Biological therapeutic; Peptide | Drug Name | PINTA-745 |
| Active Companies Inactive Companies Highest Status Phase 2 Clinical Active Indications Protein energy deficiency; End stage renal disease Target-based Actions GDF-8 antagonist Other Actions Renal system agent Antibody fragment; Intravenous formulation; Infusion; Biological therapeutic; Peptide | Key Synonyms | |
| Inactive Companies Highest Status Phase 2 Clinical Active Indications Protein energy deficiency; End stage renal disease Target-based Actions GDF-8 antagonist Other Actions Renal system agent Technologies Antibody fragment; Intravenous formulation; Infusion; Biological therapeutic; Peptide | Originator Company | Pinta Biotherapeutics |
| Highest Status Phase 2 Clinical Active Indications Protein energy deficiency;End stage renal disease Target-based Actions GDF-8 antagonist Other Actions Renal system agent Technologies Antibody fragment;Intravenous formulation;Infusion;Biological therapeutic;Peptide | Active Companies | Pinta Biotherapeutics |
| Active Indications Protein energy deficiency;End stage renal disease Target-based Actions GDF-8 antagonist Other Actions Renal system agent Technologies Antibody fragment;Intravenous formulation;Infusion;Biological therapeutic;Peptide | Inactive Companies | |
| Target-based Actions GDF-8 antagonist Other Actions Renal system agent Technologies Antibody fragment;Intravenous formulation;Infusion;Biological therapeutic;Peptide | Highest Status | Phase 2 Clinical |
| Other Actions Renal system agent Technologies Antibody fragment;Intravenous formulation;Infusion;Biological therapeutic;Peptide | Active Indications | Protein energy deficiency;End stage renal disease |
| Technologies Antibody fragment;Intravenous formulation;Infusion;Biological therapeutic;Peptide | Target-based Actions | GDF-8 antagonist |
| therapeutic;Peptide | Other Actions | Renal system agent |
| Last Change Date 18-Dec-2013 | Technologies | |
| | Last Change Date | 18-Dec-2013 |

PINTA-745 DEVELOPMENT PROFILE

SUMMARY

Pinta Biotherapeutics is developing PINTA-745, a peptibody that inhibits myostatin, for the potential iv infusion treatment of end stage renal disease and protein energy wasting. In November 2013, a phase I/II trial was initiated.

PINTA-745 DEVELOPMENT STATUS

CURRENT DEVELOPMENT STATUS

| Company | Indication | Country | Development Status | Date |
|-----------------------|---------------------------|---------|---------------------------|-------------|
| Pinta Biotherapeutics | End stage renal disease | US | Phase 2 Clinical | 30-Nov-2013 |
| Pinta Biotherapeutics | Protein energy deficiency | US | Phase 2 Clinical | 30-Nov-2013 |

PINTA-745 DRUG NAMES

| Names | Туре |
|-----------|---------------|
| PINTA-745 | Research Code |



PINTA-745 CLINICAL TRIALS

Trials by Phase and Condition Studied

| Phase 4 Clinical | | Phase 3 Clinical | | Phase 2 Clinical | | Phase 1 Phase Clinical Unspecified | | | То | tal | |
|-------------------------|-----|---------------------|-----|---------------------|-----|---------------------------------------|-----|--------------|-----|--------------|-----|
| On- going | All | On- going | All | On- going | All | On- going | All | On- going | All | On- going | All |
| End stage renal disease | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 |

Total Trials by Phase and Status

| Phase 4 Phase 3 Clinical Clinical | | | Phase 2 Clinical | | Phase 1 Clinical | | Phase Unspecified | | Total | | |
|--------------------------------------|-----|--------------|---------------------|--------------|---------------------|--------------|----------------------|--------------|-------|--------------|-----|
| On- going | All | On- going | All | On- going | All | On- going | All | On- going | All | On- going | All |
| Total by Phase and Status | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 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

STM-434

STM-434 SNAPSHOT

| Drug Name | STM-434 |
|----------------------|--|
| Key Synonyms | |
| Originator Company | Amgen Inc |
| Active Companies | Amgen Inc;Atara Biotherapeutics Inc |
| Inactive Companies | |
| Highest Status | Phase 1 Clinical |
| Active Indications | Cancer |
| Target-based Actions | Activin type-IIB receptor antagonist |
| Other Actions | Synergist;Anticancer protein kinase inhibitor |
| Technologies | Antibody fragment;Biological therapeutic;Parenteral formulation unspecified;Protein fusion |
| Last Change Date | 23-Oct-2014 |

STM-434 DEVELOPMENT PROFILE

SUMMARY

Amgen in collaboration with Atara Biotherapeutics are developing STM-434 (STM-217), a recombinant human soluble activin type 2B receptor Fc fusion protein (sActR2B-Fc) inhibiting activin A and myostatin signaling, for the potential treatment of cancers, including ovarian cancer and solid tumors,,. In October 2014, a phase I trial was initiated in the US.

STM-434 DEVELOPMENT STATUS

CURRENT DEVELOPMENT STATUS

| Company | Indication | Country | Development Status | Date |
|---------------------------|------------|---------|---------------------------|-------------|
| Amgen Inc | Cancer | US | Phase 1 Clinical | 07-Oct-2014 |
| Atara Biotherapeutics Inc | Cancer | US | Phase 1 Clinical | 07-Oct-2014 |

STM-434 DRUG NAMES

| Names | Туре |
|--|---------------|
| recombinant human soluble activin type 2B receptor Fc fusion protein (cancer), Amgen/Atara Biotherapeutics | |
| STM-217 | Research Code |
| STM-434 | Research Code |



STM-434 CLINICAL TRIALS

Trials by Phase and Condition Studied

| | Phase 4 Phase 3 Clinical Clinical | | Phase 2 Clinical | | Phase 1 Clinical | | Phase Unspecified | | Total | | | |
|--------------|--------------------------------------|--------------|---------------------|--------------|---------------------|--------------|----------------------|--------------|-------|--------------|-----|--|
| On- going | All | On- going | All | On- going | All | On- going | All | On- going | All | On- going | All | |
| Advance | Advanced solid tumor | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | |
| Ovary tumor | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | |

Total Trials by Phase and Status

| Phase 4 Phase 3 Clinical Clinical | | | Phase 2 Clinical | | Phase 1 Clinical | | Phase Unspecified | | Total | | |
|--------------------------------------|-----|--------------|---------------------|--------------|---------------------|--------------|----------------------|--------------|-------|--------------|-----|
| On- going | All | On- going | All | On- going | All | On- going | All | On- going | All | On- going | All |
| Total by Phase and Status | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 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

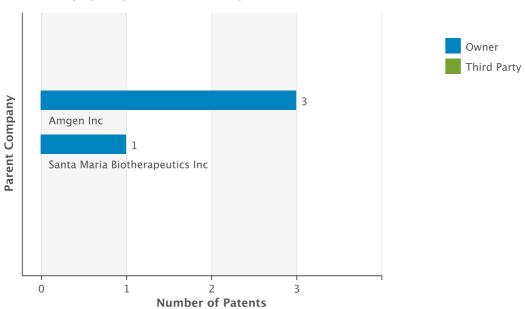
Includes Phase 1, Phase 1a, Phase 1, Phase 1/2 (where enrolment count is under 100 or not specified), Phase 0

STM-434 DEALS AND PATENTS

PATENTS

Patents by Parent Company Chart

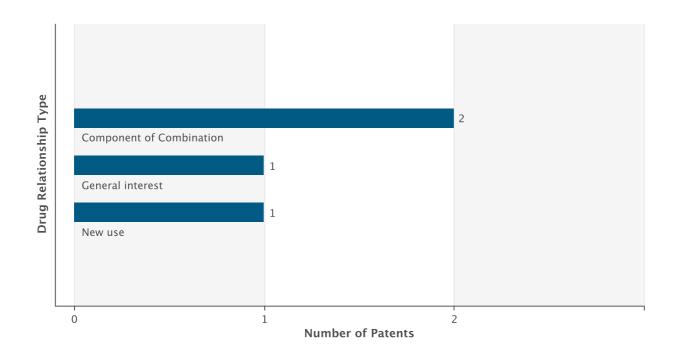
Chart displayed by Owner/Third Party



Patents by Parent Company Table

| Company Name | As Owner | As Third Party | Total |
|---------------------------------|----------|----------------|-------|
| Amgen Inc | 3 | 0 | 3 |
| Santa Maria Biotherapeutics Inc | 1 | 0 | 1 |

Patents by Drug Relationship Type Chart



Patents by Drug Relationship Type Table

| Drug Relationship | Total |
|--------------------------|-------|
| Component of Combination | 2 |
| New use | 1 |
| General interest | 1 |

ATA-842

ATA-842 SNAPSHOT

| Drug Name | ATA-842 |
|----------------------|---|
| Key Synonyms | |
| Originator Company | Amgen Inc |
| Active Companies | Atara Biotherapeutics Inc |
| Inactive Companies | Amgen Inc |
| Highest Status | Discovery |
| Active Indications | Cachexia |
| Target-based Actions | GDF-8 antagonist |
| Other Actions | |
| Technologies | Antibody fragment;Systemic formulation unspecified;Biological therapeutic;Peptide |
| Last Change Date | 28-Aug-2014 |

ATA-842 DEVELOPMENT PROFILE

SUMMARY

Atara Biotherapeutics under license from Amgen, is investigating ATA-842 (NINA-842; previously AMG-745), a peptibody that antagonizes myostatin (GDF-8), for the potential treatment of cachexia,.. In December 2013, preclinical development was ongoing.

ATA-842 DEVELOPMENT STATUS

CURRENT DEVELOPMENT STATUS

| Company | Indication | Country | Development Status | Date |
|---------------------------|------------|---------|---------------------------|-------------|
| Atara Biotherapeutics Inc | Cachexia | US | Discovery | 25-Oct-2012 |
| Amgen Inc | Cachexia | US | Discontinued | 25-Oct-2012 |

ATA-842 DRUG NAMES

| Names | Туре |
|--|---------------|
| growth differentiation factor-8 antagonist (cachexia), Amgen | |
| ATA-842 | Research Code |
| AMG-745 | Research Code |
| NINA-842 | Research Code |
| myostatin antagonist (cachexia), Amgen | |
| GDF-8 antagonist (cachexia), Amgen | |

ATA-842 CLINICAL TRIALS

Trials by Phase and Condition Studied

| Phase 4 Phase 3 Clinical Clinical | | | Phase 2 Clinical | | Phase 1 Clinical | | Phase Unspecified | | Total | | |
|--------------------------------------|----------|--------------|---------------------|--------------|---------------------|--------------|----------------------|--------------|-------|--------------|-----|
| On- going | All | On- going | All | On- going | All | On- going | All | On- going | All | On- going | All |
| Prostate tumor | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Sarcoper | nia | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| Cachexia | Cachexia | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |

Total Trials by Phase and Status

| Phase 4 Clinical | | Phase 3 Clinical | | Phase 2 Clinical | | Phase 1 Clinical | | Phase Unspecified | | Total | |
|---------------------------|-----|---------------------|-----|---------------------|-----|---------------------|-----|----------------------|-----|--------------|-----|
| On- going | All | On- going | All | On- going | All | On- going | All | On- going | All | On- going | All |
| Total by Phase and Status | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 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)

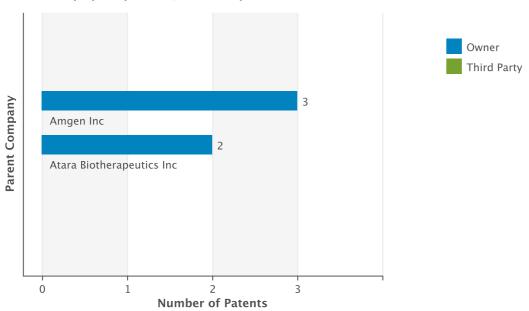


ATA-842 DEALS AND PATENTS

PATENTS

Patents by Parent Company Chart

Chart displayed by Owner/Third Party

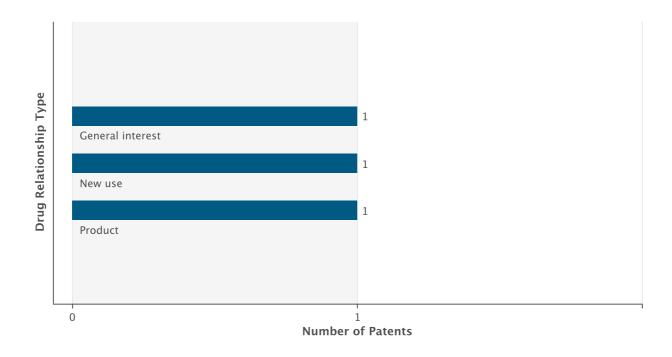


Patents by Parent Company Table

| Company Name | As Owner | As Third Party | Total |
|---------------------------|----------|----------------|-------|
| Amgen Inc | 3 | 0 | 3 |
| Atara Biotherapeutics Inc | 2 | 0 | 2 |



Patents by Drug Relationship Type Chart



Patents by Drug Relationship Type Table

| Drug Relationship | |
|-------------------|---|
| New use | 1 |
| General interest | 1 |
| Product | 1 |

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