

## **Accelaron Pharma Inc**

### **COMPANY AND PIPELINE OVERVIEW REPORT**

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i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.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

## COMPANY OVERVIEW

<b>Company Name</b>	Acceleron Pharma Inc
<b>Parent Company Name</b>	Acceleron Pharma Inc
<b>Website</b>	<a href="http://www.acceleronpharma.com/">http://www.acceleronpharma.com/</a>
<b>Country</b>	US
<b>Number of Drugs in Active Development</b>	5
<b>Number of Inactive Drugs</b>	3
<b>Number of Patents as Owner</b>	38
<b>Number of Patents as Third Party</b>	0
<b>Number of Deals</b>	8
<b>Key Indications</b>	Anemia,Beta thalassemia,Bone disease,Rheumatoid arthritis,Ovary tumor,Cancer,Diamond Blackfan anemia,Endometrioid carcinoma,Fallopian tube cancer,Metastatic renal cancer,Peritoneal tumor,Squamous cell
<b>Key Target-based Actions</b>	TGF beta antagonist,Activin type-II receptor antagonist,GDF modulator,GDF-8 antagonist,Activin type-IIB receptor antagonist,Alk-1 protein kinase inhibitor,Immunoglobulin gamma Fc receptor agonist,Alk-3 protein kinase modulator,Bone morphogenetic protein-10 ligand modulator,Bone morphogenetic protein-9 ligand modulator,TGF beta ligand inhibitor,TNF
<b>Key Technologies</b>	Protein fusion,Biological therapeutic,Immunoglobulin-G,Antibody fragment,Subcutaneous formulation,Receptor fusion,Small molecule therapeutic,Soluble receptor,Antibody,Intraperitoneal formulation,Parenteral formulation unspecified,Protein chimeric,Systemic formulation unspecified

## COMPANY PROFILE

### SUMMARY

Acceleron Pharma Inc, founded in 2003 and headquartered in Cambridge, MA, is a biopharmaceutical company using approaches that exploit the therapeutic potential of a large family of growth and differentiation factors.

### COMPANY LOCATION

In May 2009, Acceleron signed a lease on a third facility in Cambridge, MA. At that time, the company planned to increase its workforce by 50% in 2009.

In June 2008, the company announced that it was to double the size of its facilities in Cambridge, MA and increase its workforce by 40% during 2008.

### LICENSING AGREEMENTS

In February 2008, as part of a codevelopment agreement for ACE-011, Acceleron and Celgene signed an option deal for the the development of three discovery programs in the field of osteoporosis and bone loss.

In August 2004, Artemis Pharmaceuticals GmbH and Acceleron signed a cooperation agreement in mouse genetics. Artemis would apply its ArteMice technology platforms to generate a specifically genetically engineered mouse model system for Acceleron, which would use the mouse model to develop drugs for the treatment of musculoskeletal and metabolic disorders.

### EARLY R&D

By May 2007, the company was investigating a number of research programs including ACE-05X for bone loss, ACE-06X and ACE-07X for fat accumulation, and ACE-08X and ACE-07X for muscle loss.

### FINANCIAL

In December 2011, Acceleron raised \$30 million from a private financing.

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In October 2007, the company raised \$31 million from a series C financing round. At that time, Acceleron planned to use the proceeds to advance its clinical and preclinical pipeline.

By August 2006, Acceleron had obtained \$30 million in Series B financing. In May 2007, investors included Advanced Technology Ventures, OrbiMed Advisors, Polaris Venture Partners, Sutter Hill Investors and Venrock Associates.

In January 2006, the company received \$8 million in debt financing from Hercules Technology Growth Capital.

In February 2004, Acceleron raised \$25 million in its first round of private equity financing.

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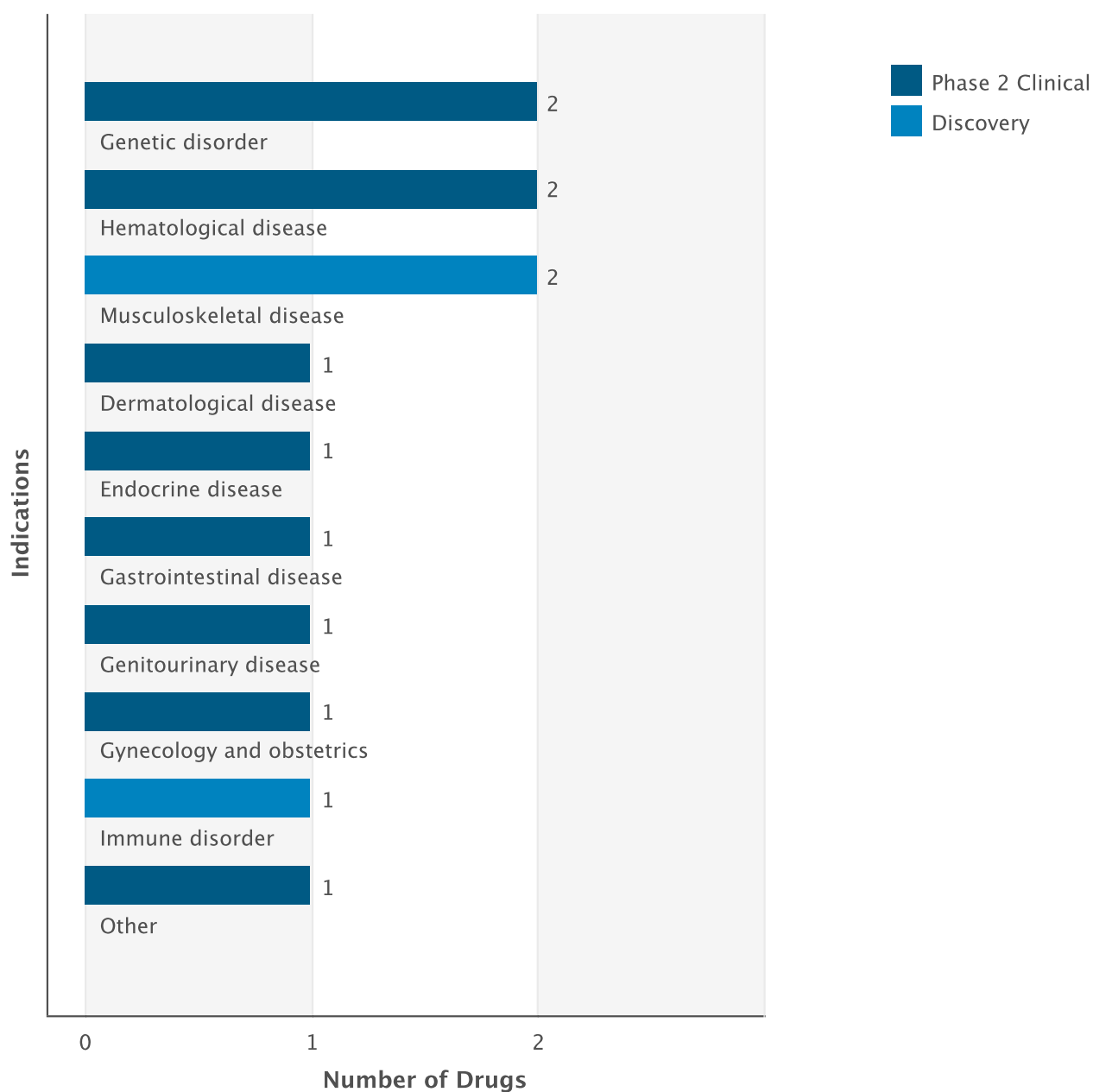


## PRODUCT PORTFOLIO SUMMARY

### DRUGS

#### Drugs by Indication

Active Drugs by Indication Chart



Drugs by Indication Table

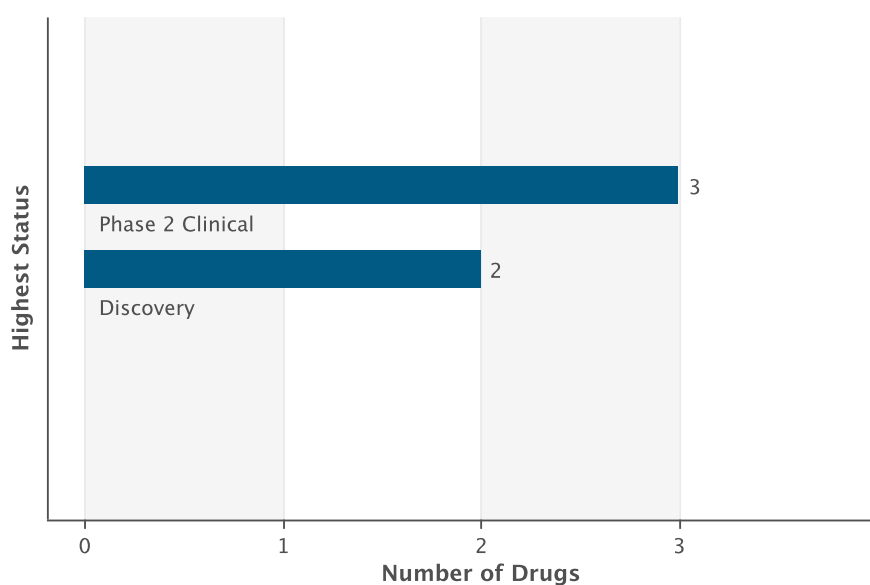
Indication	Active	Inactive	Total
Musculoskeletal disease	2	4	6

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Hematological disease	2	2	4
Genetic disorder	2	1	3
Immune disorder	1	1	2
Metabolic disorder	0	2	2
Growth disorder	0	2	2
Inflammatory disease	1	1	2
Injury	0	1	1
Neurological disease	0	1	1
Nutritional disorder	0	1	1
Dermatological disease	1	0	1
Genitourinary disease	1	0	1
Neoplasm	1	0	1
Gynecology and obstetrics	1	0	1
Ocular disease	0	1	1
Endocrine disease	1	0	1
Gastrointestinal disease	1	0	1

### Drugs by Highest Status

Active Drugs by Highest Status Chart



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## Drugs by Highest Status Table

Development Status	Number of Drugs
Phase 2 Clinical	3
Discovery	2
Discontinued	1
No Development Reported	2

## DEALS

Deal Type	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Technology - Other Proprietary	0	0	2	0	2
Drug - Funding	3	0	0	0	3
Drug - Development/Commercialization License	1	0	0	0	2
Technology - Delivery/Formulation	1	0	0	0	1

## CLINICAL TRIALS

### Trials by Condition Studied

Condition Studied	Ongoing	All
Neoplasm	1	6
Hematological disease	3	5
Musculoskeletal disease	0	5
Endocrine disease	0	5
Gynecology and obstetrics	0	3
Degeneration	0	2
Neurological disease	0	2
Genitourinary disease	1	2
Growth disorder	0	2
Gastrointestinal disease	0	1
Dermatological disease	0	1
Immune disorder	0	1
Genetic disorder	1	1

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## Trials by Phase

Phase	Ongoing	All
Phase 2	4	9
Phase 1	0	6
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
Cardiovascular disease	12	0	12
Endocrine disease	22	0	22
Gastrointestinal disease	13	0	13
Genitourinary disease	3	0	3
Growth disorder	12	0	12
Hematological disease	13	0	13
Degeneration	8	0	8
Andrology	1	0	1
Immune disorder	15	0	15
Psychiatric disorder	1	0	1
Musculoskeletal disease	29	0	29
Neoplasm	18	0	18
Ocular disease	2	0	2
Genetic disorder	2	0	2
Metabolic disorder	11	0	11
Mouth disease	1	0	1

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Neurological disease	11	0	11
Nutritional disorder	11	0	11
Prophylaxis	1	0	1
Respiratory disease	3	0	3
Infectious disease	4	0	4
Injury	6	0	6
Toxicity and intoxication	1	0	1
Inflammatory disease	11	0	11
Gynecology and obstetrics	7	0	7
Dermatological 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.

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## PRODUCT PORTFOLIO DRUGS

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

### sotatercept

<b>Drug Name</b>	sotatercept
<b>Key Synonyms</b>	sotatercept
<b>Originator Company</b>	Acceleron Pharma Inc
<b>Active Companies</b>	Acceleron Pharma Inc, Celgene Corp
<b>Inactive Companies</b>	
<b>Highest Status</b>	Phase 2 Clinical
<b>Active Indications</b>	Beta thalassemia, Anemia, Diamond Blackfan anemia
<b>Target-based Actions</b>	Activin type-II receptor antagonist
<b>Other Actions</b>	Hematopoietic stimulant, Osteoblast modulator, Bone resorption inhibitor
<b>Technologies</b>	Antibody fragment, Immunoglobulin-G, Subcutaneous formulation, Biological therapeutic, Protein fusion, Soluble receptor
<b>Last Change Date</b>	07-Mar-2013

### dalantercept

<b>Drug Name</b>	dalantercept
<b>Key Synonyms</b>	dalantercept
<b>Originator Company</b>	Acceleron Pharma Inc
<b>Active Companies</b>	Acceleron Pharma Inc
<b>Inactive Companies</b>	
<b>Highest Status</b>	Phase 2 Clinical
<b>Active Indications</b>	Peritoneal tumor, Squamous cell carcinoma, Fallopian tube cancer, Ovary tumor, Metastatic renal cancer, Endometrioid carcinoma
<b>Target-based Actions</b>	TGF beta antagonist, Bone morphogenetic protein-10 ligand modulator, Alk-1 protein kinase inhibitor, Bone morphogenetic protein-9 ligand modulator
<b>Other Actions</b>	Ocular antineovascularisation agent, Angiogenesis inhibitor, Anticancer protein kinase inhibitor
<b>Technologies</b>	Antibody fragment, Receptor fusion, Subcutaneous formulation, Biological therapeutic, Protein chimeric, Protein fusion
<b>Last Change Date</b>	18-Jun-2013

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### ACE-536

<b>Drug Name</b>	ACE-536
<b>Key Synonyms</b>	
<b>Originator Company</b>	Acceleron Pharma Inc
<b>Active Companies</b>	Celgene Corp, Acceleron Pharma Inc
<b>Inactive Companies</b>	
<b>Highest Status</b>	Phase 2 Clinical
<b>Active Indications</b>	Beta thalassemia, Anemia
<b>Target-based Actions</b>	TGF beta ligand inhibitor, TGF beta antagonist, GDF modulator
<b>Other Actions</b>	Hematopoietic stimulant
<b>Technologies</b>	Antibody fragment, Receptor fusion, Immunoglobulin-G, Subcutaneous formulation, Biological therapeutic, Protein fusion, Soluble receptor
<b>Last Change Date</b>	13-May-2013

### ACE-661

<b>Drug Name</b>	ACE-661
<b>Key Synonyms</b>	
<b>Originator Company</b>	Acceleron Pharma Inc
<b>Active Companies</b>	Acceleron Pharma Inc
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Bone disease
<b>Target-based Actions</b>	Immunoglobulin gamma Fc receptor agonist, TGF beta antagonist, Alk-3 protein kinase modulator
<b>Other Actions</b>	Steroid agonist, Bone modulator
<b>Technologies</b>	Immunoglobulin-G, Systemic formulation unspecified, Intraperitoneal formulation, Biological therapeutic, Protein fusion
<b>Last Change Date</b>	16-Oct-2012

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## ACE-772

<b>Drug Name</b>	ACE-772
<b>Key Synonyms</b>	
<b>Originator Company</b>	Acceleron Pharma Inc
<b>Active Companies</b>	Acceleron Pharma Inc
<b>Inactive Companies</b>	
<b>Highest Status</b>	Discovery
<b>Active Indications</b>	Rheumatoid arthritis
<b>Target-based Actions</b>	TNF antagonist
<b>Other Actions</b>	Anti-inflammatory
<b>Technologies</b>	Receptor fusion, Small molecule therapeutic
<b>Last Change Date</b>	05-Jul-2012

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