

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i.e. where the development status for the drug(s) is one of the following: No Development Reported, Discontinued, or Withdrawn.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

COMPANY OVERVIEW

Company Name	Xencor Inc
Parent Company Name	Xencor Inc
Website	http://www.xencor.com/
Country	US
Number of Drugs in Active Development	17
Number of Inactive Drugs	5
Number of Patents as Owner	56
Number of Patents as Third Party	1
Number of Deals	22
Key Indications	Cancer, Rheumatoid arthritis, Autoimmune disease, Inflammatory disease, Breast tumor, Multiple myeloma, Non-Hodgkin lymphoma, Allergy, Systemic lupus erythematosus, Anaplastic large cell lymphoma, Asthma, Chronic lymphocytic leukemia, Multiple sclerosis, Osteoporosis, Solid tumor
Key Target-based Actions	B-lymphocyte antigen CD19 inhibitor, TNF antagonist, Immunoglobulin gamma Fc receptor IIB antagonist, TNF alpha ligand inhibitor, Immunoglobulin E antagonist, CD40 ligand inhibitor, B-lymphocyte antigen CD20 modulator, Bone marrow stromal antigen 2 modulator, CD30 antagonist, CD80 antagonist, CD86 antagonist, Cytotoxic T-lymphocyte protein-4 stimulator, EpCAM inhibitor, Epidermal growth factor ligand inhibitor, ErbB2 tyrosine kinase receptor modulator, Folate receptor alpha antagonist, Immunoglobulin gamma Fc receptor IIB modulator, Osteoclast differentiation factor ligand inhibitor, T-cell surface glycoprotein CD5 inhibitor, Thrombopoietin receptor agonist, VEGF ligand inhibitor
Key Technologies	Biological therapeutic, Parenteral formulation unspecified, Monoclonal antibody humanized, Protein recombinant, Small molecule therapeutic, Monoclonal antibody, Monoclonal antibody human, Peptide, Chimeric monoclonal antibody, Immunoglobulin-G

COMPANY PROFILE

SUMMARY

Xencor Inc is a privately held biotechnology company founded in October 1997 by Stephen Mayo and Bassil Dahiyat with \$5 million in venture capital. It was set up to create, develop and commercialize designed proteins as biotechnology products and research tools for the human therapeutic, high throughput screening assay and industrial enzyme markets. Xencor's proprietary tools are ProCode and Protein Design Automation (PDA). ProCode allows the simultaneous analysis of the entire proteome of a cell by creating protein expression libraries where each protein is covalently linked to its corresponding cDNA.

TECHNOLOGY

Xmab technology is the company's proprietary platform to produce a portfolio of drug candidates from an antibody with high selectivity for a target antigen by enhancing the antibody-dependent cell cytotoxicity.

LICENSING AGREEMENTS

In November 2009, Centocor Research & Development to use Xencor's XmAb and Xtend technologies to optimize its antibody drug candidates. Xencor was to receive an upfront payment and was eligible to receive milestones and royalties on product commercialization.

In March 2009, Xencor granted Merck & Co an exclusive license to its Xtend technology for the development of antibodies towards an undisclosed Merck drug target. Xencor would receive an upfront license fee of \$3 million, a payment on selection of an Xtend variant, milestone payments and royalties.

In March 2009, Xencor signed an agreement with Pfizer to optimize the performance of therapeutic monoclonal

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antibodies.

In February 2009, Xencor licensed access to its XmAb technology to CSL, for use in advancing the antibody-dependent cell cytotoxicity (ADCC) effector function of CSL's own therapeutic antibodies. The initial phase of the alliance would allow CSL broad access to the technology, to apply towards its complete antibody portfolio. CSL also had commercial licenses in place for the advanced development and commercialization of any antibodies incorporating XmAb; Xencor would receive an upfront payment, plus milestone and royalty payments on each of these antibodies.

In February 2008, Xencor agreed to use its XmAb technology to optimize Human Genome Sciences's monoclonal antibodies against selected targets. Xencor would receive an upfront payment, and was eligible to receive additional milestone payments and royalties on any resulting products that Human Genome commercializes.

In February 2007, Xencor agreed to use its XmAb technology to optimize Boehringer Ingelheim's monoclonal antibodies against selected targets. Xencor would receive an upfront payment, and was eligible to receive additional licence fees, milestones and a royalty payment on any resulting products that Boehringer commercializes.

In February 2006, Xencor granted Centocor a non-exclusive multiyear license to use its ImmunoFilter technology to evaluate the potential immunogenicity of therapeutic proteins, in return for annual license fees.

In January 2006, Xencor granted Eli Lilly a non-exclusive, multiyear license to use its ImmunoFilter technology to evaluate the immunogenicity risk of Lilly's therapeutic proteins.

In December 2005, Xencor gained an exclusive license to technology developed at Cambridge University for making monoclonal antibodies with greatly enhanced potency. The technology included specific Fc variants that complement Xencor's XmAb engineered Fc domains, which could be inserted into antibody candidates against any antigen and may improve effector functions such as enhanced antibody-mediated tumor cell killing, sustained half-life and increased structural stability.

In December 2005, Xencor licensed its XmAb engineered Fc domains to MedImmune for use in the creation of monoclonal antibodies against preclinical tumor targets. Xencor received an upfront payment, as well as license fees, milestones and royalties.

In July 2005, Xencor and Centocor agreed to codevelop monoclonal antibodies with improved anticancer efficacy. Xencor would use its XmAb engineered antibody Fc domains to create drug candidates; Centocor would evaluate these against an oncology target. Xencor was to receive an upfront payment, license fees, and milestone and royalty payments.

In April 2005, Lilly exercised its option to develop one or more therapeutic proteins created by Xencor, which would receive an upfront license fee, milestone payments and royalties. In February 2004, Xencor and Lilly entered a collaboration to optimize the physical and biochemical properties of a protein therapeutic. Xencor would use its PDA technology to create variants of the protein to meet criteria for clinical development. Lilly would have the option to develop the resulting candidates.

In January 2005, Xencor and Roche Holding AG signed a collaboration agreement to use Xencor's XmAb with Roche's antibodies against a cancer target. Xencor would receive technology access and license fees, and future license fees, milestones and royalties if Roche advanced candidates into development; in January 2006, the companies extended the collaboration, allowing Roche to further its research efforts to enhance the therapeutic efficacy of an antibody against a cancer target. Xencor would receive additional fees for the extension.

In January 2005, Xencor and Chugai Pharmaceutical Co Ltd formed a collaboration to use Xencor's XmAb in combination with Chugai's antibodies against a cancer target. Xencor would receive technology access, license fees, milestones and royalties.

In December 2004, Xencor Inc and Genentech entered a collaboration to create next-generation therapeutic antibodies for cancer and autoimmune diseases. Xencor would grant Genentech an exclusive, worldwide license to use its XmAb technology, a suite of engineered antibody Fc domains that can be incorporated into therapeutic candidates, to develop and commercialize products directed against CD20, Her2 and a third undisclosed antigen. In return, Xencor would receive a \$5 million upfront fee, annual licensing fees and milestone payments.

In January 2004, Xencor and Protein Design Labs (PDL) entered into an agreement to generate monoclonal antibodies with enhanced potency. The multiyear collaboration allowed PDL to apply Xencor's XmAb technology to a number of preclinical antibodies against various targets. Xencor was to receive technology access and license fees, development milestone payments and royalties. PDL would be responsible for development and commercialization of the resulting products.

In September 2003, Chromos Molecular Systems Inc and Xencor entered into a non-exclusive research license agreement to develop cell lines that expressed Xencor's monoclonal antibodies and other recombinant protein product candidates. Chromos would receive an upfront payment and annual maintenance fees.

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In October 2003, it was reported that Xencor was anticipating partnering a number of its technologies, whilst continuing to develop a number of inhouse projects.

Xencor has ongoing collaborations with the California Institute of Technology (Caltech) and the Massachusetts Institute of Technology (MIT).

IP NEWS

In January 2008, Xencor announced that the USPTO had granted US-7317091B1 (WO-03074679 and WO-2004029207) which covered its protein design automation technology. The issuance was the first from a series of applications covering Xencor's XmAb antibody Fc engineering technology.

In September 2003, Xencor was issued US-06627186, covering nucleic acids and protein variants of G-CSF with granulopoietic activity'.

FINANCIAL

In October 2007, the company raised an additional \$15 million in extended series E financing, bringing the total raised to \$60 million.

In October 2006, Xencor raised \$45 million from a private financing. The funds included a \$6 million bridge financing that was announced in July 2006. Xencor would use the proceeds for the clinical development of two biologics; XPro1595 was to enter the clinic in 2006 for inflammation, and XmAb-2513 was to begin clinical trials for Hodgkin's disease in 2007.

In July 2006, Xencor raised \$6 million in a bridge financing led by Novo Nordisk, which committed to invest a further \$6 million in future financings.

By October 2005, Xencor had raised \$20 million through a series D round of financing. The funds would be used to initiate a phase I trial of XPro-1595 and conduct preclinical development of antibody therapeutics.

R&D GRANTS

In October 2002, Xencor was awarded a \$2 million advanced technology program grant from the National Institute of Standards and Technology to support the discovery of safer and more effective protein therapeutics. The 3-year federal grant, titled "Rational Design of Non-immunogenic Proteins," would support the development of Xencor's ImmunoPDA technology to create new, non-immunogenic proteins optimized for therapeutic use and to eliminate immunogenicity from known protein drugs.

In June 2001, Xencor was awarded a \$0.5 million SBIR phase II grant from the National Science Foundation. The grant would allow Xencor to further develop its enabling technology for computer directed high-throughput screening of proteins.

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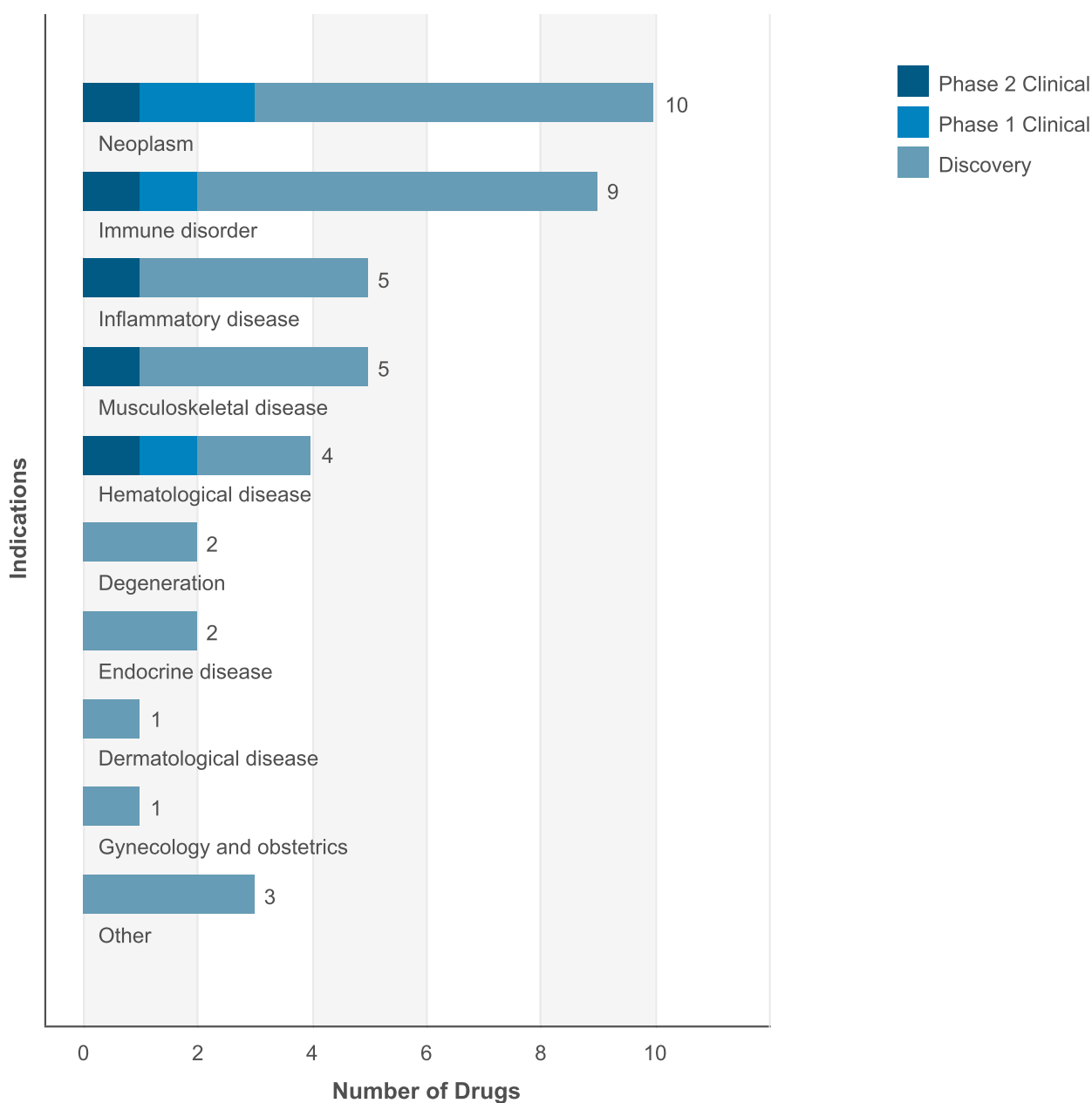


PRODUCT PORTFOLIO SUMMARY

DRUGS

Drugs by Indication

Active Drugs by Indication Chart



Drugs by Indication Table

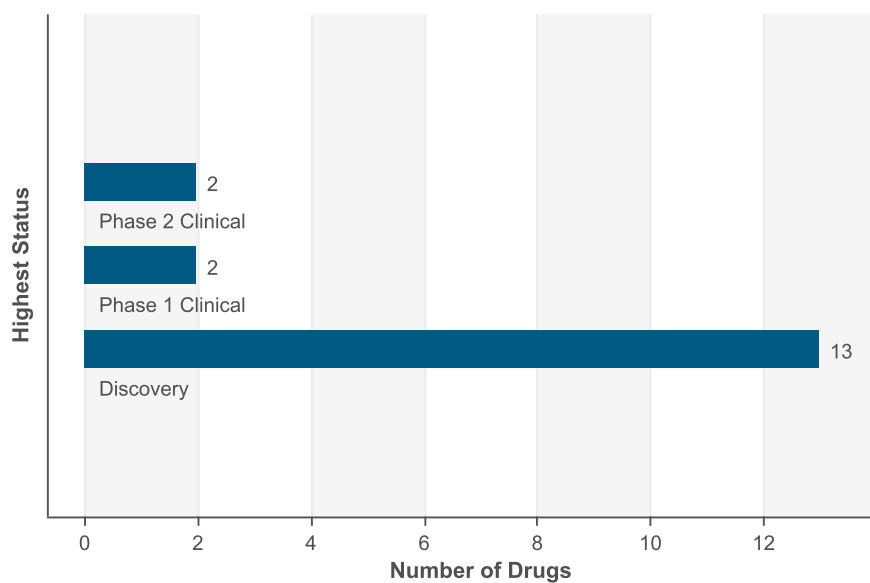
Indication	Active	Inactive	Total
Neoplasm	10	4	14

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Immune disorder	9	2	11
Hematological disease	4	2	6
Musculoskeletal disease	5	0	5
Inflammatory disease	5	0	5
Endocrine disease	2	1	3
Degeneration	2	0	2
Gynecology and obstetrics	1	1	2
Dermatological disease	1	0	1
Respiratory disease	1	0	1
Neurological disease	1	0	1
Metabolic disorder	1	0	1
Genitourinary disease	0	1	1
Ocular 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	2

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Phase 1 Clinical	2
Discovery	13
Discontinued	2
No Development Reported	3

DEALS

Deal Type	Principal		Partner		Total
	Active	Inactive	Active	Inactive	
Drug - Discovery/Design	1	0	1	0	2
Technology - Delivery/Formulation	1	0	0	0	1
Drug - Manufacturing/Supply	0	0	1	0	1
Drug - Funding	2	0	0	0	2
Drug - Development/Commercialization License	3	0	0	0	3
Technology - Target Validation	1	0	0	0	1
Drug - Early Research/Development	1	0	0	0	1
Technology - Other Proprietary	9	0	1	0	10
Drug - Screening/Evaluation	1	0	0	0	1

CLINICAL TRIALS

Trials by Condition Studied

Condition Studied	Ongoing	All
Immune disorder	0	3
Neoplasm	0	2
Hematological disease	0	2

Trials by Phase

Phase	Ongoing	All
Phase 1	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)

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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	11	0	11
Endocrine disease	16	0	16
Gastrointestinal disease	14	0	14
Genitourinary disease	8	0	8
Growth disorder	2	0	2
Hematological disease	29	0	29
Degeneration	2	0	2
Andrology	1	0	1
Immune disorder	70	0	70
Musculoskeletal disease	23	0	23
Neoplasm	85	0	85
Ocular disease	8	0	8
Genetic disorder	2	0	2
Metabolic disorder	17	0	17
Mouth disease	10	0	10
Neurological disease	29	0	29
Nutritional disorder	2	0	2
Respiratory disease	5	0	5
Infectious disease	48	0	48
Injury	2	0	2
Inflammatory disease	48	0	48
Otorhinolaryngological disease	2	0	2
Gynecology and obstetrics	9	0	9

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Dermatological disease	14	0	14
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* 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

MOR-208

Drug Name	MOR-208
Key Synonyms	
Originator Company	Xencor Inc
Active Companies	MorphoSys AG, Xencor Inc
Inactive Companies	
Highest Status	Phase 2 Clinical
Active Indications	Chronic lymphocytic leukemia, Cancer
Target-based Actions	B-lymphocyte antigen CD19 inhibitor
Other Actions	Anti-inflammatory, Anticancer monoclonal antibody
Technologies	Monoclonal antibody humanized, Intravenous formulation, Biological therapeutic
Last Change Date	08-Jan-2013

XmAb-5871

Drug Name	XmAb-5871
Key Synonyms	
Originator Company	Xencor Inc
Active Companies	Xencor Inc
Inactive Companies	Amgen Inc
Highest Status	Phase 2 Clinical
Active Indications	Systemic lupus erythematosus, Rheumatoid arthritis
Target-based Actions	Immunoglobulin gamma Fc receptor IIB antagonist, B-lymphocyte antigen CD19 inhibitor
Other Actions	Anti-inflammatory, Immunomodulator
Technologies	Monoclonal antibody humanized, Biological therapeutic, Parenteral formulation unspecified
Last Change Date	14-Feb-2013

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XmAb-2513

Drug Name	XmAb-2513
Key Synonyms	
Originator Company	Xencor Inc
Active Companies	Xencor Inc
Inactive Companies	
Highest Status	Phase 1 Clinical
Active Indications	Hodgkins disease, Anaplastic large cell lymphoma
Target-based Actions	CD30 antagonist
Other Actions	Anticancer monoclonal antibody
Technologies	Monoclonal antibody humanized, Infusion, Biological therapeutic, Parenteral formulation unspecified, Protein recombinant
Last Change Date	13-Jun-2012

anticancer monoclonal antibody (1), (Xmab), Boehringer

Drug Name	anticancer monoclonal antibody (1), (Xmab), Boehringer
Key Synonyms	
Originator Company	Xencor Inc
Active Companies	Xencor Inc, Boehringer Ingelheim Corp
Inactive Companies	
Highest Status	Phase 1 Clinical
Active Indications	Cancer
Target-based Actions	
Other Actions	Anticancer monoclonal antibody, Unspecified drug target
Technologies	Monoclonal antibody, Biological therapeutic, Parenteral formulation unspecified
Last Change Date	02-Oct-2012

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XPro-1595

Drug Name	XPro-1595
Key Synonyms	
Originator Company	Xencor Inc
Active Companies	Xencor Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Rheumatoid arthritis, Multiple sclerosis, Degeneration, Inflammatory disease, Uveitis
Target-based Actions	TNF alpha ligand inhibitor
Other Actions	Anti-inflammatory
Technologies	Subcutaneous formulation, Biological therapeutic, Peptide
Last Change Date	27-Sep-2012

DN-RANKL

Drug Name	DN-RANKL
Key Synonyms	
Originator Company	Xencor Inc
Active Companies	Xencor Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Osteoporosis
Target-based Actions	Osteoclast differentiation factor ligand inhibitor
Other Actions	Anticancer, Bone resorption inhibitor
Technologies	Small molecule therapeutic
Last Change Date	15-Jun-2012

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DN-BAFF

Drug Name	DN-BAFF
Key Synonyms	
Originator Company	Xencor Inc
Active Companies	Xencor Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Autoimmune disease
Target-based Actions	TNF antagonist
Other Actions	Anti-inflammatory
Technologies	Biological therapeutic, Small molecule therapeutic, Parenteral formulation unspecified
Last Change Date	15-Jun-2012

XmAb-5485

Drug Name	XmAb-5485
Key Synonyms	
Originator Company	Xencor Inc
Active Companies	Xencor Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Cancer
Target-based Actions	CD40 ligand inhibitor
Other Actions	Immunomodulator, Anticancer monoclonal antibody
Technologies	Monoclonal antibody humanized, Biological therapeutic, Parenteral formulation unspecified
Last Change Date	15-Jun-2012

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XmAb-5592

Drug Name	XmAb-5592
Key Synonyms	
Originator Company	Xencor Inc
Active Companies	Xencor Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Multiple myeloma
Target-based Actions	Bone marrow stromal antigen 2 modulator
Other Actions	Anticancer monoclonal antibody
Technologies	Monoclonal antibody humanized, Biological therapeutic, Parenteral formulation unspecified
Last Change Date	15-Jun-2012

cetuximab biosuperior, Xencor

Drug Name	cetuximab biosuperior, Xencor
Key Synonyms	
Originator Company	Xencor Inc
Active Companies	Xencor Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Cancer
Target-based Actions	Epidermal growth factor ligand inhibitor
Other Actions	Anticancer monoclonal antibody
Technologies	Chimeric monoclonal antibody, Biological therapeutic, Parenteral formulation unspecified, Protein recombinant
Last Change Date	28-Sep-2012

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adalimumab biosuperior, Xencor

Drug Name	adalimumab biosuperior, Xencor
Key Synonyms	
Originator Company	Xencor Inc
Active Companies	Xencor Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Autoimmune disease
Target-based Actions	TNF antagonist
Other Actions	Immunomodulator
Technologies	Monoclonal antibody human, Biological therapeutic, Parenteral formulation unspecified
Last Change Date	14-Aug-2012

bevacizumab biosuperior, Xencor

Drug Name	bevacizumab biosuperior, Xencor
Key Synonyms	
Originator Company	Xencor Inc
Active Companies	Xencor Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Solid tumor
Target-based Actions	VEGF ligand inhibitor
Other Actions	Anticancer monoclonal antibody
Technologies	Monoclonal antibody human, Biological therapeutic, Parenteral formulation unspecified, Protein recombinant
Last Change Date	28-Sep-2012

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omalizumab biosuperior, Xencor

Drug Name	omalizumab biosuperior, Xencor
Key Synonyms	
Originator Company	Xencor Inc
Active Companies	Xencor Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Allergy, Asthma
Target-based Actions	Immunoglobulin E antagonist, Immunoglobulin gamma Fc receptor IIB modulator
Other Actions	Anti-inflammatory
Technologies	Monoclonal antibody humanized, Biological therapeutic, Parenteral formulation unspecified, Protein recombinant
Last Change Date	28-Sep-2012

abatacept biosuperior, Xencor

Drug Name	abatacept biosuperior, Xencor
Key Synonyms	
Originator Company	Xencor Inc
Active Companies	Xencor Inc
Inactive Companies	
Highest Status	Discovery
Active Indications	Rheumatoid arthritis
Target-based Actions	CD80 antagonist, CD86 antagonist, Cytotoxic T-lymphocyte protein-4 stimulator
Other Actions	IL-2 release inhibitor, Immunosuppressant, Anti-inflammatory
Technologies	Protein conjugated, Immunoglobulin-G, Biological therapeutic, Protein recombinant
Last Change Date	28-Sep-2012

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monoclonal antibody (2) (Xmab, cancer), Xencor/Boehringer Ingelheim

Drug Name	monoclonal antibody (2) (Xmab, cancer), Xencor/Boehringer Ingelheim
Key Synonyms	
Originator Company	Xencor Inc
Active Companies	Xencor Inc, Boehringer Ingelheim Corp
Inactive Companies	
Highest Status	Discovery
Active Indications	Cancer
Target-based Actions	
Other Actions	Anticancer monoclonal antibody, Unspecified drug target
Technologies	Monoclonal antibody, Biological therapeutic, Parenteral formulation unspecified
Last Change Date	02-Oct-2012

trastuzumab biosuperior, Xencor

Drug Name	trastuzumab biosuperior, Xencor
Key Synonyms	
Originator Company	Xencor Inc
Active Companies	Xencor Inc
Inactive Companies	Genentech Inc
Highest Status	Discovery
Active Indications	Breast tumor
Target-based Actions	ErbB2 tyrosine kinase receptor modulator
Other Actions	Anticancer monoclonal antibody
Technologies	Monoclonal antibody humanized, Biological therapeutic, Protein recombinant
Last Change Date	29-Sep-2012

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rituximab biosuperior, Xencor

Drug Name	rituximab biosuperior, Xencor
Key Synonyms	
Originator Company	Xencor Inc
Active Companies	Xencor Inc
Inactive Companies	Genentech Inc
Highest Status	Discovery
Active Indications	Rheumatoid arthritis, Non-Hodgkin lymphoma
Target-based Actions	B-lymphocyte antigen CD20 modulator
Other Actions	Anti-inflammatory, Anticancer monoclonal antibody
Technologies	Chimeric monoclonal antibody, Biological therapeutic, Protein recombinant
Last Change Date	29-Sep-2012

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