

**~75% of** preclinical and clinical programs have **GENETIC SUPPORT**

The industry's largest toolkit with **13 MODALITIES\***

A mix of **INNOVATIVE MOLECULES, NEW INDICATIONS, AND BIOSIMILARS**

A robust and differentiated pipeline, leveraging state-of-the-art science to create medicines for serious illness. Amgen is focused on high-quality candidates that demonstrate large, clinically-relevant effects. Human genetic validation is used whenever possible to enhance the likelihood of success.

PHASE ONE			PHASE TWO			PHASE THREE		
AMG 176 Hematology/ Oncology	AMG 330 Hematology/ Oncology	AMG 420 Hematology/ Oncology	AMG 301 Neuroscience	AMG 557 Inflammation	AMG 714 Inflammation	AMG 520/ CNP520 Neuroscience	Aranesp® (darbepoetin alfa) Hematology/ Oncology	BLINCYTO® (blinatumomab) Hematology/ Oncology
AMG 570 Inflammation	AMG 592 Inflammation	AMG 596 Hematology/ Oncology	BLINCYTO® (blinatumomab) Hematology/ Oncology	Tezepelumab Inflammation		ENBREL (etanercept) Inflammation	**EVENTITY™ (romosozumab) Bone Health	IMLYGIC® (talimogene laherparepvec) Hematology/ Oncology
AMG 598 Cardiovascular	AMG 673 Hematology/ Oncology	AMG 701 Hematology /Oncology				KYPROLIS® (carfilzomib) Hematology/ Oncology	Omecamtiv mecarbil Cardiovascular	Tezepelumab Inflammation
AMG 757 Hematology/ Oncology	AMG 966 Inflammation	AMG 986 Cardiovascular						
IMLYGIC® (talimogene laherparepvec) Hematology/ Oncology	KYPROLIS® (carfilzomib) Hematology/ Oncology	Oprozomib Hematology/ Oncology						

### BIOSIMILARS‡

ABP 494 (biosimilar cetuximab) Hematology/ Oncology	ABP 710 (biosimilar infliximab) Inflammation	ABP 798 (biosimilar rituximab) Hematology/ Oncology & Inflammation	ABP 959 (biosimilar eculizumab) Hematology /Oncology	**KANJINTI™ (biosimilar trastuzumab) Hematology/ Oncology
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‡Amgen has an additional three biosimilar programs in development which are undisclosed at this time.

\*\*Tradename provisionally approved by the United States Food and Drug Administration.

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**PHASE ONE**

Phase 1 clinical trials investigate safety and proper dose ranges of a product candidate in a small number of human subjects.

MOLECULE NAME & PRONUNCIATION	MODALITY	THERAPEUTIC AREA	DESCRIPTION
<b>AMG 176</b>	<b>Small Molecule</b>	<b>Hematology/ Oncology</b>	AMG 176 is a small molecule being investigated as a treatment for multiple myeloma and acute myelogenous leukemia.
<b>AMG 330</b>	<b>BiTE® Antibody Construct</b>	<b>Hematology/ Oncology</b>	AMG 330 is an anti-CD33 x anti-CD3 BiTE® (bispecific T cell engager) antibody construct. It is being investigated as a treatment for acute myeloid leukemia.
<b>AMG 420</b>	<b>BiTE® Antibody Construct</b>	<b>Hematology/ Oncology</b>	AMG 420 is an anti-BCMA x anti-CD3 BiTE® (bispecific T cell engager) antibody construct. It is being investigated as a treatment for multiple myeloma.
<b>AMG 570</b>	<b>Bispecific Antibody</b>	<b>Inflammation</b>	AMG 570 is a bispecific antibody-peptide conjugate that targets BAFF and ICOS ligand. It is being investigated as a treatment for systemic lupus erythematosus. AMG 570 is being developed in collaboration with AstraZeneca plc.
<b>AMG 592</b>	<b>Fusion Protein</b>	<b>Inflammation</b>	AMG 592 is an IL-2 mutein Fc fusion protein. It is being investigated as a treatment for inflammatory diseases.
<b>AMG 596</b>	<b>BiTE® Antibody Construct</b>	<b>Hematology/ Oncology</b>	AMG 596 is an anti-EGFRvIII x anti-CD3 BiTE® (bispecific T cell engager) antibody construct. It is being investigated as a treatment for glioblastoma.
<b>AMG 598</b>	<b>Monoclonal Antibody</b>	<b>Cardiovascular</b>	AMG 598 is a human monoclonal antibody being investigated as a treatment for obesity.
<b>AMG 673</b>	<b>BiTE® Antibody Construct</b>	<b>Hematology/ Oncology</b>	AMG 673 is an extended half-life anti-CD33 x anti-CD3 BiTE® (bispecific T cell engager) antibody construct. It is being investigated as a treatment for relapsed or refractory acute myeloid leukemia.
<b>AMG 701</b>	<b>BiTE® Antibody Construct</b>	<b>Hematology/ Oncology</b>	AMG 701 is an extended half-life anti-BCMA x anti-CD3 BiTE® (bispecific T cell engager) antibody construct. It is being investigated as a treatment for multiple myeloma.
<b>AMG 757</b>	<b>BiTE® Antibody Construct</b>	<b>Hematology/ Oncology</b>	AMG 757 is an extended half-life anti-DLL3 x anti-CD3 BiTE® (bispecific T cell engager) antibody construct. It is being investigated as a treatment for small-cell lung cancer.
<b>AMG 966</b>	<b>Monoclonal Antibody</b>	<b>Inflammation</b>	AMG 966 is a monoclonal antibody being investigated for the treatment of inflammatory bowel diseases (Crohn's disease and ulcerative colitis).
<b>AMG 986</b>	<b>Small Molecule</b>	<b>Cardiovascular</b>	AMG 986 is a small molecule agonist of the Apelin receptor (APJ). It is being investigated for the treatment of heart failure.
<b>IMLYGIC® (talimogene laherparepvec) tal im' oh jeen la her'' pa rep' vek</b>	<b>Oncolytic Immunotherapy</b>	<b>Hematology/ Oncology</b>	IMLYGIC® is an oncolytic immunotherapy derived from herpes simplex virus type 1 (HSV-1). It is being investigated as a combination treatment with Merck & Company, Inc.'s anti-PD-1 therapy KEYTRUDA® (pembrolizumab) in patients with mid- to late-stage metastatic melanoma (Phase 1b/3) and in other cancer types (Phase 1).

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Phase 1 clinical trials investigate safety and proper dose ranges of a product candidate in a small number of human subjects.

MOLECULE NAME & PRONUNCIATION	MODALITY	THERAPEUTIC AREA	DESCRIPTION
<b>KYPROLIS®</b> (carfilzomib) <i>car fil' zoe mib</i>	Small Molecule	Hematology/ Oncology	KYPROLIS® is a proteasome inhibitor. It is being investigated in a variety of combinations and patient populations for multiple myeloma (Phase 3) and as a treatment for small-cell lung cancer (Phase 1b/2).  In December 2017, Amgen submitted a supplemental New Drug Application (sNDA) to the United States Food and Drug Administration (FDA) to include the overall survival data from the ASPIRE study in the product label.
<b>Oprozomib</b> <i>oh proz' oh mib</i>	Small Molecule	Hematology/ Oncology	Oprozomib is an oral proteasome inhibitor. It is being investigated for the treatment of multiple myeloma.

## PHASE TWO

Phase 2 clinical trials investigate side effect profiles and efficacy of a product candidate in a large number of patients who have the disease or condition under study.

MOLECULE NAME & PRONUNCIATION	MODALITY	THERAPEUTIC AREA	DESCRIPTION
<b>AMG 301</b>	Monoclonal Antibody	Neuroscience	AMG 301 is a human monoclonal antibody that inhibits the pituitary adenylate cyclase-activating polypeptide type 1 (PAC1) receptor. It is being investigated for migraine prevention.  AMG 301 is being developed in collaboration with Novartis Pharma AG.
<b>AMG 557</b>	Monoclonal Antibody	Inflammation	AMG 557 is a human monoclonal antibody that inhibits the action of the ICOS ligand. It is being investigated as a treatment for primary Sjögren's syndrome.  AMG 557 is being developed in collaboration with AstraZeneca plc.
<b>AMG 714</b>	Monoclonal Antibody	Inflammation	AMG 714 is a human monoclonal antibody that binds to Interleukin-15 (IL-15). It is being investigated for the treatment of celiac disease.  In November 2017, Amgen reacquired the AMG 714 program from Celimmune LLC.
<b>BLINCYTO®</b> (blinatumomab) <i>blin" a toom' oh mab</i>	BiTE® Antibody Construct	Hematology/ Oncology	BLINCYTO® is an anti-CD19 x anti-CD3 BiTE® (bispecific T cell engager) antibody construct. It is being investigated as a treatment for acute lymphoblastic leukemia (ALL) (Phase 3) and for adult patients with relapsed or refractory diffuse large B cell lymphoma (DLBCL) (Phase 2/3).  BLINCYTO® is being developed in Japan by Amgen Astellas BioPharma K.K., a joint venture between Amgen and Astellas Pharma Inc., a pharmaceutical company headquartered in Tokyo.
<b>Tezepelumab</b>	Monoclonal Antibody	Inflammation	Tezepelumab is a human monoclonal antibody that inhibits the action of thymic stromal lymphopoietin (TSLP). It is being investigated as a treatment for asthma (Phase 3) and atopic dermatitis (Phase 2).  Tezepelumab is being developed in collaboration with AstraZeneca plc.

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## PHASE THREE

Phase 3 clinical trials investigate the safety and efficacy of a product candidate in a large number of patients who have the disease or condition under study; typically performed with registrational intent.

MOLECULE NAME & PRONUNCIATION	MODALITY	THERAPEUTIC AREA	DESCRIPTION
<b>AMG 520/CNP520</b>	Small Molecule	Neuroscience	<p>AMG 520 (CNP520) is a small molecule inhibitor of beta-site amyloid precursor protein (APP) cleaving enzyme-1 (BACE). It is being investigated for the prevention of Alzheimer's Disease.</p> <p>AMG 520 (CNP520) is being developed in collaboration with Novartis Pharma AG.</p>
<b>Aranesp®</b> (darbepoetin alfa) <i>dar" be poe' e tin al fa</i>	Therapeutic Protein	Hematology/ Oncology	Aranesp® is a recombinant human protein agonist of the erythropoietin receptor. It is being investigated as a treatment for low risk myelodysplastic syndromes.
<b>BLINCYTO®</b> (blinatumomab) <i>blin" a toom' oh mab</i>	BiTE® Antibody Construct	Hematology/ Oncology	<p>BLINCYTO® is an anti-CD19 x anti-CD3 BiTE® (bispecific T cell engager) antibody construct. It is being investigated as a treatment for acute lymphoblastic leukemia (ALL) (Phase 3) and for adult patients with relapsed or refractory diffuse large B cell lymphoma (DLBCL) (Phase 2/3).</p> <p>BLINCYTO® is being developed in Japan by Amgen Astellas BioPharma K.K., a joint venture between Amgen and Astellas Pharma Inc., a pharmaceutical company headquartered in Tokyo.</p>
<b>ENBREL</b> (etanercept)	Fusion Protein	Inflammation	ENBREL is a fusion protein that inhibits tumor necrosis factor. It is being investigated as a monotherapy for psoriatic arthritis treatment and as a monotherapy in maintaining remission of rheumatoid arthritis.
<b>EVENTITY™</b> (romosozumab) <i>roe" moe soz' ue mab</i>	Monoclonal Antibody	Bone Health	<p>EVENTITY™ is a humanized monoclonal antibody that inhibits the action of sclerostin. It is being investigated as a treatment for postmenopausal osteoporosis and male osteoporosis.</p> <p>In July 2017, Amgen and UCB announced that the U.S. Food and Drug Administration (FDA) issued a Complete Response Letter for the Biologics License Application (BLA) for EVENTITY™ as a treatment for postmenopausal women with osteoporosis. In July 2018, Amgen and UCB announced the resubmission of the BLA to the FDA for EVENTITY™. The resubmission included data from the Phase 3 ARCH study and select data from the Phase 3 BRIDGE study evaluating EVENTITY™ in men with osteoporosis, in addition to the Phase 3 FRAME study. We are currently evaluating all EVENTITY™ data and will be working in close collaboration with the FDA.</p> <p>In January 2018, Amgen and UCB announced that the European Medicines Agency (EMA) accepted the Marketing Authorization Application (MAA) for EVENTITY™ for the treatment of osteoporosis in postmenopausal women and in men at increased risk of fracture.</p> <p>EVENTITY™ is being developed in collaboration with UCB. EVENTITY™ is being developed in Japan by Amgen Astellas BioPharma K.K., a joint venture between Amgen and Astellas Pharma Inc., a pharmaceutical company headquartered in Tokyo.</p>
<b>IMLYGIC®</b> (talimogene laherparepvec) <i>tal im' oh jeen la her" pa rep' vek</i>	Oncolytic Immunotherapy	Hematology/ Oncology	IMLYGIC® is an oncolytic immunotherapy derived from herpes simplex virus type 1 (HSV-1). It is being investigated as a combination treatment with Merck & Company, Inc.'s anti-PD-1 therapy KEYTRUDA® (pembrolizumab) in patients with mid- to late-stage metastatic melanoma (Phase 1b/3) and in other cancer types (Phase 1).

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MOLECULE NAME & PRONUNCIATION	MODALITY	THERAPEUTIC AREA	DESCRIPTION
<b>KYPROLIS®</b> (carfilzomib) <i>car fil' zoe mib</i>	Small Molecule	Hematology/ Oncology	KYPROLIS® is a proteasome inhibitor. It is being investigated in a variety of combinations and patient populations for multiple myeloma (Phase 3) and as a treatment for small-cell lung cancer (Phase 1b/2).  In December 2017, Amgen submitted a supplemental New Drug Application (sNDA) to the United States Food and Drug Administration (FDA) to include the overall survival data from the ASPIRE study in the product label.
<b>Omecamtiv mecarbil</b> <i>om" e kam' tiv me kar' bil</i>	Small Molecule	Cardiovascular	Omecamtiv mecarbil is a small molecule activator of cardiac myosin. It is being investigated for the treatment of chronic heart failure.  Omecamtiv mecarbil is being developed by Amgen in collaboration with Cytokinetics, Inc. and in collaboration with Servier for certain territories.
<b>Tezepelumab</b>	Monoclonal Antibody	Inflammation	Tezepelumab is a human monoclonal antibody that inhibits the action of thymic stromal lymphopoietin (TSLP). It is being investigated as a treatment for asthma (Phase 3) and atopic dermatitis (Phase 2).  Tezepelumab is being developed in collaboration with AstraZeneca plc.

## BIOSIMILARS

A biosimilar, or follow-on biologic, is a biologic medicine designed to have active properties similar to one that has previously been licensed. Biosimilars follow a different regulatory review pathway than innovative products and indications.

MOLECULE NAME	MODALITY	THERAPEUTIC AREA	DESCRIPTION
<b>ABP 494</b> (biosimilar cetuximab)	Monoclonal Antibody	Hematology/ Oncology	ABP 494 (biosimilar cetuximab) is an anti-epidermal growth factor receptor (anti-EGFR) monoclonal antibody. It is in pre-clinical development.  The reference product primary conditions are colorectal cancer and head and neck cancer.  Amgen is developing ABP 494 in collaboration with Allergan.
<b>ABP 710</b> (biosimilar infliximab)	Monoclonal Antibody	Inflammation	ABP 710 (biosimilar infliximab) is an anti-tumor necrosis factor-alpha (anti-TNF) monoclonal antibody.  The reference product primary conditions are rheumatoid arthritis, plaque psoriasis, Crohn's disease, ulcerative colitis, psoriatic arthritis and ankylosing spondylitis.
<b>ABP 798</b> (biosimilar rituximab)	Monoclonal Antibody	Hematology/ Oncology & Inflammation	ABP 798 (biosimilar rituximab) is an anti-CD20 monoclonal antibody.  The reference product primary conditions are non-Hodgkin's lymphoma, chronic lymphocytic leukemia and rheumatoid arthritis.  Amgen is developing ABP 798 in collaboration with Allergan.
<b>ABP 959</b> (biosimilar eculizumab)	Monoclonal Antibody	Hematology/ Oncology	ABP 959 (biosimilar eculizumab) is a monoclonal antibody that specifically binds to the complement protein C5.  The reference product primary conditions are Paroxysmal Nocturnal Hemoglobinuria (PNH) and Atypical Hemolytic Uremic Syndrome (aHUS).

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<b>KANJINTI™ (biosimilar trastuzumab)</b>	<b>Monoclonal Antibody</b>	<b>Hematology/ Oncology</b>	<p>KANJINTI™ (formerly ABP 980) (biosimilar trastuzumab) is an anti-HER2 monoclonal antibody.</p> <p>The reference product primary conditions are HER2+ breast cancer and HER2+ gastric cancer.</p> <p>In June 2018, Amgen received a complete response letter from FDA in response to the BLA for KANJINTI™. KANJINTI™ is being developed in collaboration with Allergan.</p>

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