

# Tyrosine Protein Kinase JAK1 - Pipeline Review, H2 2020

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## Abstracts

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### SUMMARY

Tyrosine Protein Kinase JAK1 (Janus Kinase 1 or JAK1 or EC 2.7.10.2) - JAK1 is a human tyrosine kinase protein essential for signaling for certain type I and type II cytokines. JAK1 plays a critical role in initiating responses to multiple major cytokine receptor families. Expression of JAK1 in cancer cells enables individual cells to contract, potentially allowing them to escape their tumor and metastasize to other parts of the body.

Tyrosine Protein Kinase JAK1 (Janus Kinase 1 or JAK1 or EC 2.7.10.2) pipeline Target constitutes close to 45 molecules. Out of which approximately 44 molecules are developed by companies and remaining by the universities/institutes. The molecules developed by companies in Pre-Registration, Phase III, Phase II, Phase I, IND/CTA Filed and Preclinical stages are 4, 6, 12, 5, 3 and 14 respectively. Similarly, the universities portfolio in Discovery stages comprises 1 molecules, respectively.

Report covers products from therapy areas Immunology, Dermatology, Gastrointestinal, Oncology, Musculoskeletal Disorders, Respiratory, Infectious Disease, Central Nervous System, Cardiovascular, Ophthalmology, Hematological Disorders and Women's Health which include indications Rheumatoid Arthritis, Atopic Dermatitis (Atopic Eczema), Alopecia Areata, Psoriasis, Ulcerative Colitis, Crohn's Disease (Regional Enteritis), Systemic Lupus Erythematosus, Coronavirus Disease 2019 (COVID-19), Vitiligo, Ankylosing Spondylitis (Bekhterev's Disease), Graft Versus Host Disease (GVHD), Inflammatory Bowel Disease, Asthma, Diffuse Large B-Cell Lymphoma, Hidradenitis Suppurativa, Inflammation, Multiple Sclerosis, Myelodysplastic Syndrome, Myelofibrosis, Peripheral T-Cell Lymphomas (PTCL), Psoriatic Arthritis, Triple-Negative

Breast Cancer (TNBC), Anaplastic Large Cell Lymphoma (ALCL), B-Cell Non-Hodgkin Lymphoma, Bronchiolitis Obliterans, Chronic Lymphocytic Leukemia (CLL), Dermatitis (Eczema), Giant Cell Arteritis (Temporal Arteritis/Cranial Arteritis/Horton Disease), Head And Neck Cancer Squamous Cell Carcinoma, Hodgkin Lymphoma (B-Cell Hodgkin Lymphoma), Lymphoma, Mantle Cell Lymphoma, Non-Small Cell Lung Cancer, Post-Polycythemia Vera Myelofibrosis (PPV-MF), Relapsed Multiple Myeloma, Systemic-Onset Juvenile Idiopathic Arthritis (Still Disease), T-Cell Acute Lymphocytic Leukemia (T-Cell Acute Lymphoblastic Leukaemia), Thrombocytopenia Myelofibrosis, Waldenstrom Macroglobulinemia (Lymphoplasmacytic Lymphoma), Acute Lung Injury, Acute Lymphocytic Leukemia (ALL, Acute Lymphoblastic Leukemia), Acute Myelocytic Leukemia (AML, Acute Myeloblastic Leukemia), Androgenic Alopecia, Angioimmunoblastic T-Cell Lymphoma (AITL)/Immunoblastic Lymphadenopathy, Arthritis, Autoimmune Disorders, B-Cell Chronic Lymphocytic Leukemia, Breast Hyperplasia, Chronic Cutaneous Lupus Erythematosus (CCLE)/Discoid Lupus Erythematosus (DLE), Chronic Myelocytic Leukemia (CML, Chronic Myeloid Leukemia), Chronic Myelomonocytic Leukemia (CMML), Colon Cancer, Colorectal Cancer, Cutaneous Lupus Erythematosus, Cutaneous T-Cell Lymphoma, Cytokine Release Syndrome (Cytokine Storm), Endometrial Cancer, Epstein-Barr Virus (HHV-4) Infections, Essential Thrombocythemia, Follicular Lymphoma, Gastric Cancer, Hairy Cell Leukemia, Hepatocellular Carcinoma, Hypereosinophilic Syndrome, Hypopharyngeal Cancer, Juvenile Arthritis, Kidney Cancer (Renal Cell Cancer), Laryngeal Cancer, Leiomyosarcoma, Lupus Erythematosus, Lupus Nephritis, Marginal Zone B-cell Lymphoma, Melanoma, Metastatic Adenocarcinoma of The Pancreas, Metastatic Prostate Cancer, Multiple Myeloma (Kahler Disease), Myeloproliferative Disorders, Myxoid Liposarcoma, Non-Hodgkin Lymphoma, Oligoarticular Idiopathic Juvenile Arthritis, Oral Cavity (Mouth) Cancer, Oropharyngeal Cancer, Pancreatic Cancer, Pancreatic Ductal Adenocarcinoma, Polyarticular Juvenile Idiopathic Arthritis (PJIA), Polycythemia Vera, Polymyalgia Rheumatica (PMR), Post-Essential Thrombocytopenia Myelofibrosis (Post-ET MF), Primary Biliary Cholangitis (Primary Biliary Cirrhosis), Primary Myelofibrosis, Refractory Acute Myeloid Leukemia, Refractory Multiple Myeloma, Relapsed Acute Myeloid Leukemia, Renal Cell Carcinoma, Sicca Syndrome (Sjogren), Skin Cancer, Spondyloarthritis (Spondyloarthropathy), Synovial Sarcoma, Systemic Idiopathic Juvenile Arthritis, Takayasu Arteritis, Transitional Cell Cancer (Urothelial Cell Cancer), Transitional Cell Carcinoma (Urothelial Cell Carcinoma) and Uveitis.

The latest report Tyrosine Protein Kinase JAK1 - Pipeline Review, H2 2020, outlays comprehensive information on the Tyrosine Protein Kinase JAK1 (Janus Kinase 1 or JAK1 or EC 2.7.10.2) targeted therapeutics, complete with analysis by indications, stage of development, mechanism of action (MoA), route of administration (RoA) and

molecule type. It also reviews key players involved in Tyrosine Protein Kinase JAK1 (Janus Kinase 1 or JAK1 or EC 2.7.10.2) targeted therapeutics development with respective active and dormant or discontinued projects.

**Note:** Certain content/sections in the pipeline guide may be removed or altered based on the availability and relevance of data.

## SCOPE

The report provides a snapshot of the global therapeutic landscape for Tyrosine Protein Kinase JAK1 (Janus Kinase 1 or JAK1 or EC 2.7.10.2)

The report reviews Tyrosine Protein Kinase JAK1 (Janus Kinase 1 or JAK1 or EC 2.7.10.2) targeted therapeutics under development by companies and universities/research institutes based on information derived from company and industry-specific sources

The report covers pipeline products based on various stages of development ranging from pre-registration till discovery and undisclosed stages

The report features descriptive drug profiles for the pipeline products which includes, product description, descriptive MoA, R&D brief, licensing and collaboration details & other developmental activities

The report reviews key players involved in Tyrosine Protein Kinase JAK1 (Janus Kinase 1 or JAK1 or EC 2.7.10.2) targeted therapeutics and enlists all their major and minor projects

The report assesses Tyrosine Protein Kinase JAK1 (Janus Kinase 1 or JAK1 or EC 2.7.10.2) targeted therapeutics based on mechanism of action (MoA), route of administration (RoA) and molecule type

The report summarizes all the dormant and discontinued pipeline projects

The report reviews latest news and deals related to Tyrosine Protein Kinase JAK1 (Janus Kinase 1 or JAK1 or EC 2.7.10.2) targeted therapeutics

## REASONS TO BUY

Gain strategically significant competitor information, analysis, and insights to formulate effective R&D strategies

Identify emerging players with potentially strong product portfolio and create effective counter-strategies to gain competitive advantage

Identify and understand the targeted therapy areas and indications for Tyrosine Protein Kinase JAK1 (Janus Kinase 1 or JAK1 or EC 2.7.10.2)

Identify the use of drugs for target identification and drug repurposing

Identify potential new clients or partners in the target demographic

Develop strategic initiatives by understanding the focus areas of leading companies

Plan mergers and acquisitions effectively by identifying key players and it's most promising pipeline therapeutics

Devise corrective measures for pipeline projects by understanding Tyrosine Protein Kinase JAK1 (Janus Kinase 1 or JAK1 or EC 2.7.10.2) development landscape

Develop and design in-licensing and out-licensing strategies by identifying prospective partners with the most attractive projects to enhance and expand business potential and scope

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### COMPANIES MENTIONED

AbbVie Inc  
Aclaris Therapeutics Inc  
Alexion Pharmaceuticals Inc  
Astellas Pharma Inc  
AstraZeneca Plc  
Bristol-Myers Squibb Co  
Chipscreen Biosciences Ltd  
Concert Pharmaceuticals Inc  
Dizal (Jiangsu) Pharmaceutical Co Ltd  
Eli Lilly and Co  
Galapagos NV  
Han Wha Pharma Co Ltd  
Hangzhou East China Pharmaceutical Group Co Ltd  
HK inno.N Corp  
Impetis Biosciences Ltd  
Incyte Corp  
Japan Tobacco Inc  
Jiangsu Carephar Pharmaceutical Co Ltd  
Jiangsu Hengrui Medicine Co Ltd  
Merck & Co Inc  
Novartis AG  
Pfizer Inc  
Sareum Holdings Plc  
Sierra Oncology Inc  
Sincere Pharmaceutical Group

Theravance Biopharma Inc  
Wuxi Fuxin Pharmaceutical Research and Development Co Ltd



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