

# Tyrosine Protein Kinase JAK2 (Janus Kinase 2 or JAK2 or EC 2.7.10.2) - Drugs in Development, 2021

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## Abstracts

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### SUMMARY

Tyrosine Protein Kinase JAK2 (Janus Kinase 2 or JAK2 or EC 2.7.10.2) pipeline Target constitutes close to 34 molecules. Out of which approximately 26 molecules are developed by companies and remaining by the universities/institutes. The latest report Tyrosine Protein Kinase JAK2 - Drugs in Development, 2021, outlays comprehensive information on the Tyrosine Protein Kinase JAK2 (Janus Kinase 2 or JAK2 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.

Tyrosine Protein Kinase JAK2 (Janus Kinase 2 or JAK2 or EC 2.7.10.2) - Janus kinase 2 is a non-receptor tyrosine kinase. It is involved in various processes such as cell growth, development, differentiation or histone modifications. It mediates essential signaling events in both innate and adaptive immunity. It plays a pivotal role in signal transduction via its association with type I receptors such as growth hormone, prolactin, leptin, erythropoietin, thrombopoietin or type II receptors including IFN-alpha, IFN-beta, IFN-gamma and multiple interleukins. It plays a role in cell cycle by phosphorylating CDKN1B. The molecules developed by companies in Pre-Registration, Filing rejected/Withdrawn, Phase III, Phase II, Phase I, Preclinical and Discovery stages are 3, 1, 4, 6, 5, 5 and 2 respectively. Similarly, the universities portfolio in Preclinical and Discovery stages comprises 5 and 3 molecules, respectively.

Report covers products from therapy areas Oncology, Immunology, Dermatology, Respiratory, Infectious Disease, Cardiovascular, Hematological Disorders, Metabolic Disorders, Musculoskeletal Disorders, Ophthalmology, Central Nervous System, Gastrointestinal, Genetic Disorders and Women's Health which include indications Myelofibrosis, Post-Essential Thrombocythemia Myelofibrosis (Post-ET MF), Post-Polycythemia Vera Myelofibrosis (PPV-MF), Atopic Dermatitis (Atopic Eczema), Coronavirus Disease 2019 (COVID-19), Rheumatoid Arthritis, Alopecia Areata, Graft Versus Host Disease (GVHD), Acute Myelocytic Leukemia (AML, Acute Myeloblastic Leukemia), Inflammation, Asthma, Autoimmune Disorders, Chronic Myelomonocytic Leukemia (CMML), Essential Thrombocythemia, Glioblastoma Multiforme (GBM), Hemophagocytic Lymphohistiocytosis, Idiopathic Pulmonary Fibrosis, Polycythemia Vera, Psoriasis, Acute Lung Injury, Acute Lymphocytic Leukemia (ALL, Acute Lymphoblastic Leukemia), Acute Respiratory Distress Syndrome, Aicardi-Goutieres Syndrome (AGS), Anaplastic Astrocytoma, Ankylosing Spondylitis (Bekhterev's Disease), Auto Inflammatory Disease, Breast Hyperplasia, Bronchiolitis Obliterans, Choroidal Neovascularization, Chronic Lymphocytic Leukemia (CLL), Chronic Myelocytic Leukemia (CML, Chronic Myeloid Leukemia), Crohn's Disease (Regional Enteritis), Cytokine Release Syndrome (Cytokine Storm), Dermatitis (Eczema), Diabetic Macular Edema, Diffuse Large B-Cell Lymphoma, Epstein-Barr Virus (HHV-4) Infections, Gastrointestinal Tract Cancer, Giant Cell Arteritis (Temporal Arteritis/Cranial Arteritis/Horton Disease), Glaucoma, Gliosarcoma, Head And Neck Cancer, Head And Neck Cancer Squamous Cell Carcinoma, Hematological Tumor, Hodgkin Lymphoma (B-Cell Hodgkin Lymphoma), Hypereosinophilic Syndrome, Hypopharyngeal Cancer, Inflammatory Bowel Disease, Juvenile Arthritis, Keratoconjunctivitis Sicca (Dry Eye), Laryngeal Cancer, Leukemia, Lipodystrophy (Lipoatrophy), Myelodysplastic Syndrome, Myeloproliferative Disorders, Oral Cavity (Mouth) Cancer, Oropharyngeal Cancer, Pediatric Diffuse Intrinsic Pontine Glioma, Peripheral T-Cell Lymphomas (PTCL), Plaque Psoriasis (Psoriasis Vulgaris), Pneumonia, Polymyalgia Rheumatica (PMR), Proliferative Diabetic Retinopathy (PDR), Prurigo, Pulmonary Hypertension, Refractory Acute Myeloid Leukemia, Refractory Multiple Myeloma, Relapsed Acute Myeloid Leukemia, Relapsed Multiple Myeloma, Sicca Syndrome (Sjogren), Solid Tumor, Squamous Cell Carcinoma, Systemic Idiopathic Juvenile Arthritis, Systemic Lupus Erythematosus, Systemic Sclerosis (Scleroderma), Systemic-Onset Juvenile Idiopathic Arthritis (Still Disease), Thrombocythemia Myelofibrosis, Triple-Negative Breast Cancer (TNBC), Ulcerative Colitis, Unspecified Cancer, Vitiligo and Wet (Neovascular/Exudative) Macular Degeneration.

Furthermore, this report also reviews key players involved in Tyrosine Protein Kinase

JAK2 (Janus Kinase 2 or JAK2 or EC 2.7.10.2) targeted therapeutics development with respective active and dormant or discontinued projects. Driven by data and information sourced from proprietary databases, company/university websites, clinical trial registries, conferences, SEC filings, investor presentations and featured press releases from company/university sites and industry-specific third party sources.

**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 JAK2 (Janus Kinase 2 or JAK2 or EC 2.7.10.2)

The report reviews Tyrosine Protein Kinase JAK2 (Janus Kinase 2 or JAK2 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 JAK2 (Janus Kinase 2 or JAK2 or EC 2.7.10.2) targeted therapeutics and enlists all their major and minor projects

The report assesses Tyrosine Protein Kinase JAK2 (Janus Kinase 2 or JAK2 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 JAK2 (Janus Kinase 2 or JAK2 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 JAK2 (Janus Kinase 2 or JAK2 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 JAK2 (Janus Kinase 2 or JAK2 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

## Contents

Introduction

Tyrosine Protein Kinase JAK2 (Janus Kinase 2 or JAK2 or EC 2.7.10.2) - Overview

Tyrosine Protein Kinase JAK2 (Janus Kinase 2 or JAK2 or EC 2.7.10.2) - Therapeutics  
Development

Tyrosine Protein Kinase JAK2 (Janus Kinase 2 or JAK2 or EC 2.7.10.2) - Therapeutics  
Assessment

Tyrosine Protein Kinase JAK2 (Janus Kinase 2 or JAK2 or EC 2.7.10.2) - Companies  
Involved in Therapeutics Development

Tyrosine Protein Kinase JAK2 (Janus Kinase 2 or JAK2 or EC 2.7.10.2) - Drug Profiles

Tyrosine Protein Kinase JAK2 (Janus Kinase 2 or JAK2 or EC 2.7.10.2) - Dormant  
Products

Tyrosine Protein Kinase JAK2 (Janus Kinase 2 or JAK2 or EC 2.7.10.2) - Discontinued  
Products

Tyrosine Protein Kinase JAK2 (Janus Kinase 2 or JAK2 or EC 2.7.10.2) - Product  
Development Milestones

Appendix

## List Of Tables

### LIST OF TABLES

Number of Products under Development by Stage of Development, 2021  
Number of Products under Development by Therapy Areas, 2021  
Number of Products under Development by Indications, 2021  
Number of Products under Development by Indications, 2021 (Contd..1)  
Number of Products under Development by Indications, 2021 (Contd..2)  
Number of Products under Development by Indications, 2021 (Contd..3)  
Number of Products under Development by Indications, 2021 (Contd..4)  
Number of Products under Development by Companies, 2021  
Number of Products under Development by Companies, 2021 (Contd..1)  
Products under Development by Companies, 2021  
Products under Development by Companies, 2021 (Contd..1)  
Products under Development by Companies, 2021 (Contd..2)  
Products under Development by Companies, 2021 (Contd..3)  
Products under Development by Companies, 2021 (Contd..4)  
Products under Development by Companies, 2021 (Contd..5)  
Products under Development by Companies, 2021 (Contd..6)  
Products under Development by Companies, 2021 (Contd..7)  
Number of Products under Investigation by Universities/Institutes, 2021  
Products under Investigation by Universities/Institutes, 2021  
Number of Products by Stage and Mechanism of Actions, 2021  
Number of Products by Stage and Route of Administration, 2021  
Number of Products by Stage and Molecule Type, 2021  
Pipeline by Adastr Pharmaceuticals Inc, 2021  
Pipeline by Aerie Pharmaceuticals Inc, 2021  
Pipeline by Bristol-Myers Squibb Co, 2021  
Pipeline by Celon Pharma SA, 2021  
Pipeline by Concert Pharmaceuticals Inc, 2021  
Pipeline by CTI BioPharma Corp, 2021  
Pipeline by Eli Lilly and Co, 2021  
Pipeline by Hangzhou East China Pharmaceutical Group Co Ltd, 2021  
Pipeline by HK inno.N Corp, 2021  
Pipeline by Incyte Corp, 2021  
Pipeline by Japan Tobacco Inc, 2021  
Pipeline by Jiangsu Simcere Pharmaceutical Co Ltd, 2021  
Pipeline by Merck & Co Inc, 2021

Pipeline by Novartis AG, 2021  
Pipeline by NS Pharma Inc, 2021  
Pipeline by OHM Oncology, 2021  
Pipeline by Pfizer Inc, 2021  
Pipeline by Shanghai Xunhe Pharmaceutical Technology Co Ltd, 2021  
Pipeline by Sierra Oncology Inc, 2021  
Pipeline by Sino Biopharmaceutical Ltd, 2021  
Pipeline by Suzhou Zelgen Biopharmaceutical Co Ltd, 2021  
Pipeline by Theravance Biopharma Inc, 2021  
Dormant Products, 2021  
Dormant Products, 2021 (Contd..1)  
Dormant Products, 2021 (Contd..2)  
Dormant Products, 2021 (Contd..3)  
Dormant Products, 2021 (Contd..4)  
Dormant Products, 2021 (Contd..5)  
Discontinued Products, 2021  
Discontinued Products, 2021 (Contd..1)

## List Of Figures

### LIST OF FIGURES

Number of Products under Development by Stage of Development, 2021

Number of Products under Development by Therapy Areas, 2021

Number of Products under Development by Top 10 Indications, 2021

Number of Products by Stage and Mechanism of Actions, 2021

Number of Products by Routes of Administration, 2021

Number of Products by Stage and Routes of Administration, 2021

Number of Products by Stage and Molecule Type, 2021



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