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# Histone Deacetylase 2 (Transcriptional Regulator Homolog RPD3 or YY1 Associated Factor 1 or HDAC2 or EC 3.5.1.98) - Pipeline Review, H2 2018

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## Abstracts

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**SUMMARY**

Histone Deacetylase 2 (Transcriptional Regulator Homolog RPD3 or YY1 Associated Factor 1 or HDAC2 or EC 3.5.1.98) pipeline Target constitutes close to 27 molecules. Out of which approximately 24 molecules are developed by companies and remaining by the universities/institutes. The latest report Histone Deacetylase 2 - Pipeline Review, H2 2018, outlays comprehensive information on the Histone Deacetylase 2 (Transcriptional Regulator Homolog RPD3 or YY1 Associated Factor 1 or HDAC2 or EC 3.5.1.98) targeted therapeutics, complete with analysis by indications, stage of development, mechanism of action (MoA), route of administration (RoA) and molecule type.

Histone Deacetylase 2 (Transcriptional Regulator Homolog RPD3 or YY1 Associated Factor 1 or HDAC2 or EC 3.5.1.98) - Histone deacetylase 2 is an enzyme encoded by the HDAC2 gene. It plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. It forms transcriptional repressor complexes by associating with MAD, SIN3, YY1 and N-COR. It interacts in the late S-phase of DNA-replication with DNMT1 in the other transcriptional repressor complex composed of DNMT1, DMAP1, PCNA, and CAF1. It deacetylates TSHZ3 and regulates its transcriptional repressor activity. The molecules developed by companies in Phase III, Phase II, Preclinical and Discovery stages are 3, 6, 11 and 4 respectively. Similarly, the

universities portfolio in Preclinical and Discovery stages comprises 2 and 1 molecules, respectively.

Report covers products from therapy areas Oncology, Central Nervous System, Genetic Disorders, Hematological Disorders, Dermatology, Gastrointestinal, Immunology, Infectious Disease, Musculoskeletal Disorders, Respiratory and Undisclosed which include indications Breast Cancer, Acute Myelocytic Leukemia (AML, Acute Myeloblastic Leukemia), Follicular Lymphoma, Melanoma, Mycosis Fungoides, Myelodysplastic Syndrome, Neuroblastoma, Non-Small Cell Lung Cancer, Acute Lymphocytic Leukemia (ALL, Acute Lymphoblastic Leukemia), Alzheimer's Disease, B-Cell Non-Hodgkin Lymphoma, Colon Cancer, Cutaneous T-Cell Lymphoma, Diffuse Large B-Cell Lymphoma, Essential Thrombocythemia, Hodgkin Lymphoma (B-Cell Hodgkin Lymphoma), Lung Cancer, Mantle Cell Lymphoma, Neurodegenerative Diseases, Non-Hodgkin Lymphoma, Post-Polycythemia Vera Myelofibrosis (PPV-MF), Prostate Cancer, Refractory Acute Myeloid Leukemia, Refractory Multiple Myeloma, Relapsed Acute Myeloid Leukemia, Relapsed Multiple Myeloma, Sickle Cell Disease, Thalassemia, Acid Sphingomyelinase Deficiency (Niemann-Pick Disease) Type C, Adenoid Cystic Carcinoma (ACC), Alopecia, Anaplastic Large Cell Lymphoma (ALCL), Anaplastic Thyroid Cancer, Angioimmunoblastic T-Cell Lymphoma (AITL)/Immunoblastic Lymphadenopathy, Basal Cell Carcinoma (Basal Cell Epithelioma), Becker Muscular Dystrophy, Bile Duct Cancer (Cholangiocarcinoma), Bladder Cancer, Bone Disorders, Burkitt Lymphoma, Charcot-Marie-Tooth Disease Type II, Chronic Lymphocytic Leukemia (CLL), Chronic Obstructive Pulmonary Disease (COPD), CNS Lymphoma, Colorectal Cancer, Depression, Duchenne Muscular Dystrophy, Epithelial Ovarian Cancer, Gallbladder Cancer, Glioblastoma Multiforme (GBM), Glioma, Gliosarcoma, Human Immunodeficiency Virus (HIV) Infections (AIDS), Liver Cancer, Liver Fibrosis, Lymphoma, Marginal Zone B-cell Lymphoma, Metastatic Renal Cell Carcinoma, Multiple Myeloma (Kahler Disease), Myelofibrosis, Natural Killer Cell Lymphomas, NUT Midline Carcinoma (NMC or Nuclear Protein in Testis Midline Carcinoma), Pancreatic Cancer, Papillary Thyroid Cancer, Parkinson's Disease, Peripheral T-Cell Lymphomas (PTCL), Polycythemia Vera, Post-Essential Thrombocythemia Myelofibrosis (Post-ET MF), Psychiatric Disorders, Recurrent Glioblastoma Multiforme (GBM), Refractory Chronic Lymphocytic Leukemia (CLL), Relapsed Chronic Lymphocytic Leukemia (CLL), Renal Cell Carcinoma, Sezary Syndrome, Soft Tissue Sarcoma, Solid Tumor, Systemic Lupus Erythematosus, Thyroid Cancer and Unspecified.

Furthermore, this report also reviews key players involved in Histone Deacetylase 2 (Transcriptional Regulator Homolog RPD3 or YY1 Associated Factor 1 or HDAC2 or EC

3.5.1.98) 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 Histone Deacetylase 2 (Transcriptional Regulator Homolog RPD3 or YY1 Associated Factor 1 or HDAC2 or EC 3.5.1.98)

The report reviews Histone Deacetylase 2 (Transcriptional Regulator Homolog RPD3 or YY1 Associated Factor 1 or HDAC2 or EC 3.5.1.98) 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 Histone Deacetylase 2 (Transcriptional Regulator Homolog RPD3 or YY1 Associated Factor 1 or HDAC2 or EC 3.5.1.98) targeted therapeutics and enlists all their major and minor projects

The report assesses Histone Deacetylase 2 (Transcriptional Regulator Homolog RPD3 or YY1 Associated Factor 1 or HDAC2 or EC 3.5.1.98) 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 Histone Deacetylase 2 (Transcriptional Regulator Homolog RPD3 or YY1 Associated Factor 1 or HDAC2 or EC 3.5.1.98) 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 Histone Deacetylase 2 (Transcriptional Regulator Homolog RPD3 or YY1 Associated Factor 1 or HDAC2 or EC 3.5.1.98)

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 Histone Deacetylase 2 (Transcriptional Regulator Homolog RPD3 or YY1 Associated Factor 1 or HDAC2 or EC 3.5.1.98) 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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AlfaSigma SpA
Celgene Corp
Chipscreen Biosciences Ltd
Curis Inc
HitGen LTD
Italfarmaco SpA
Medivir AB
MEI Pharma Inc
Merck & Co Inc
Rodin Therapeutics Inc
Yungjin Pharm Co Ltd
Zhejiang Hisun Pharmaceutical Co Ltd

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