

# **Interleukin 1 Receptor Associated Kinase 4 (Renal Carcinoma Antigen NY REN 64 or IRAK4 or EC 2.7.11.1) - Pipeline Review, H2 2018**

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## **Abstracts**

Interleukin 1 Receptor Associated Kinase 4 (Renal Carcinoma Antigen NY REN 64 or IRAK4 or EC 2.7.11.1) - Pipeline Review, H2 2018

### **SUMMARY**

Interleukin 1 Receptor Associated Kinase 4 (Renal Carcinoma Antigen NY REN 64 or IRAK4 or EC 2.7.11.1) - Interleukin-1 receptor-associated kinase 4 (IRAK-4) is a protein kinase involved in signaling innate immune responses from Toll-like receptors. Mutations in IRAK-4 result in IRAK4 deficiency and recurrent invasive pneumococcal disease. It phosphorylates E3 ubiquitin ligases Pellino proteins to promote pellino-mediated polyubiquitination of IRAK1. Ubiquitin-binding domain of IKBKG/NEMO binds to polyubiquitinated IRAK1 bringing together the IRAK1-MAP3K7/TAK1-TRAF6 complex and the NEMO-IKKA-IKKB complex. MAP3K7/TAK1 activates IKKs leading to NF-kappa-B nuclear translocation and activation.

Interleukin 1 Receptor Associated Kinase 4 (Renal Carcinoma Antigen NY REN 64 or IRAK4 or EC 2.7.11.1) pipeline Target constitutes close to 16 molecules. The molecules developed by companies in Phase II, Phase I, Preclinical and Discovery stages are 1, 3, 9 and 3 respectively. Report covers products from therapy areas Immunology, Oncology, Musculoskeletal Disorders, Central Nervous System, Genito Urinary System And Sex Hormones, Infectious Disease and Women's Health which include indications Rheumatoid Arthritis, Gouty Arthritis (Gout), Psoriasis, Autoimmune Disorders, Diffuse Large B-Cell Lymphoma, Inflammation, Acute Myelocytic Leukemia (AML, Acute Myeloblastic Leukemia), Chronic Kidney Disease (Chronic Renal Failure), Endometriosis, Hematological Tumor, Lupus Erythematosus, Lymphoma, Multiple

Sclerosis, Myelodysplastic Syndrome, Pelvic Inflammatory Disease (Pelvic Infections), Psoriatic Arthritis and Waldenstrom Macroglobulinemia.

The latest report Interleukin 1 Receptor Associated Kinase 4 - Pipeline Review, H2 2018, outlays comprehensive information on the Interleukin 1 Receptor Associated Kinase 4 (Renal Carcinoma Antigen NY REN 64 or IRAK4 or EC 2.7.11.1) 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 Interleukin 1 Receptor Associated Kinase 4 (Renal Carcinoma Antigen NY REN 64 or IRAK4 or EC 2.7.11.1) targeted therapeutics development with respective active and dormant or discontinued projects.

The report is built using 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 Interleukin 1 Receptor Associated Kinase 4 (Renal Carcinoma Antigen NY REN 64 or IRAK4 or EC 2.7.11.1)

The report reviews Interleukin 1 Receptor Associated Kinase 4 (Renal Carcinoma Antigen NY REN 64 or IRAK4 or EC 2.7.11.1) 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 Interleukin 1 Receptor Associated

Kinase 4 (Renal Carcinoma Antigen NY REN 64 or IRAK4 or EC 2.7.11.1) targeted therapeutics and enlists all their major and minor projects

The report assesses Interleukin 1 Receptor Associated Kinase 4 (Renal Carcinoma Antigen NY REN 64 or IRAK4 or EC 2.7.11.1) 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 Interleukin 1 Receptor Associated Kinase 4 (Renal Carcinoma Antigen NY REN 64 or IRAK4 or EC 2.7.11.1) 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 Interleukin 1 Receptor Associated Kinase 4 (Renal Carcinoma Antigen NY REN 64 or IRAK4 or EC 2.7.11.1)

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 Interleukin 1 Receptor Associated Kinase 4 (Renal Carcinoma Antigen NY REN 64 or IRAK4

or EC 2.7.11.1) 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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AstraZeneca Plc

Aurigene Discovery Technologies Ltd

Bayer AG

Beijing Hanmi Pharmaceutical Co Ltd

Bristol-Myers Squibb Co

Genentech Inc

Merck & Co Inc

Pfizer Inc

Rigel Pharmaceuticals Inc

TG Therapeutics Inc

Interleukin 1 Receptor Associated Kinase 4 (Renal Carcinoma Antigen NY REN 64 or IRAK4 or EC 2.7.11.1) - Drug Profiles

AS-2444697 - Drug Profile

Product Description

Mechanism Of Action

R&D Progress

BAY-1834845 - Drug Profile

Product Description

Mechanism Of Action

R&D Progress

CA-4948 - Drug Profile

Product Description

Mechanism Of Action

R&D Progress

ND-2110 - Drug Profile

Product Description

Mechanism Of Action

R&D Progress

ND-2158 - Drug Profile

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Mechanism Of Action

R&D Progress

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Mechanism Of Action

R&D Progress

PF-06650833 MR - Drug Profile

Product Description

Mechanism Of Action

R&D Progress

R-191 - Drug Profile

Product Description

Mechanism Of Action

R&D Progress

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Mechanism Of Action

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Small Molecule to Inhibit BTK and IRAK4 for Autoimmune Disorders - Drug Profile

Product Description

Mechanism Of Action

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Small Molecules to Inhibit IRAK4 for Autoimmune Disorders - Drug Profile

Product Description

Mechanism Of Action

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R&D Progress

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Featured News & Press Releases

Jun 26, 2018: Rigel Initiates Phase 1 Clinical Trial of R835, an IRAK1/4 Inhibitor for Autoimmune and Inflammatory Diseases

Jan 17, 2018: Curis Announces Initiation of Phase 1 Trial of CA-4948, a Small Molecule Inhibitor of IRAK4 Kinase in Patients with Lymphoma

Mar 30, 2017: Curis to Present Preclinical Data on IRAK4 Kinase Inhibitor CA-4948 at AACR Annual Meeting

Apr 12, 2016: Rigel Announces Presentation on preclinical research project R191 at Upcoming American Association of Cancer Research (AACR) Conference

Apr 11, 2016: Curis Announces Presentation of Preclinical Data for CA-4948 at AACR Annual Meeting

Nov 08, 2015: Curis Collaborator Aurigene Presents Preclinical Data From Oral Small Molecule IRAK4 Program at AACR-NCI-EORTC International Conference

Apr 20, 2015: TG Therapeutics Presents Pre-clinical Data on IRAK4 Compounds at the American Association for Cancer Research Annual Meeting

Apr 18, 2015: Aurigene to Present its IRAK-4 Inhibitors Programs at AACR 2015

Apr 14, 2015: Curis Announces Presentation of Data From IRAK-4 Program at AACR Annual Meeting

Nov 12, 2012: Nimbus discovery presents preclinical data on highly selective IRAK4 inhibitors for the treatment of rheumatic diseases.

Nov 12, 2012: Nimbus discovery presents preclinical data on highly selective IRAK4 inhibitors for the treatment of rheumatic diseases.

Nov 07, 2011: Ligand Reports Positive Preclinical Data On IRAK4 Program At 2011 American College Of Rheumatology Annual Scientific Meeting

Mar 10, 2011: Nimbus Discovery unveils first of its kind drug discovery paradigm; announces seed round co-led by bill gates.

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### COMPANIES MENTIONED

Amgen Inc

Astellas Pharma Inc

AstraZeneca Plc

Aurigene Discovery Technologies Ltd

Bayer AG

Beijing Hanmi Pharmaceutical Co Ltd

Bristol-Myers Squibb Co

Genentech Inc

Merck & Co Inc

Pfizer Inc

Rigel Pharmaceuticals Inc

TG Therapeutics Inc

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