

# Lymphocyte Activation Gene 3 Protein (Protein FDC or CD223 or LAG3) - Pipeline Review, H1 2018

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# **Abstracts**

Lymphocyte Activation Gene 3 Protein (Protein FDC or CD223 or LAG3) - Pipeline Review, H1 2018

#### SUMMARY

Lymphocyte Activation Gene 3 Protein (Protein FDC or CD223 or LAG3) - Lymphocyte-activation gene 3 or LAG-3 is a protein encoded by the LAG3 gene. It is involved in the maturation and activation of dendritic cells and lymphocyte activation. It binds to HLA class-II antigens.

Lymphocyte Activation Gene 3 Protein (Protein FDC or CD223 or LAG3) pipeline Target constitutes close to 24 molecules. The molecules developed by companies in Phase II, Phase I, Preclinical and Discovery stages are 3, 7, 10 and 4 respectively. Report covers products from therapy areas Oncology, Immunology and Cardiovascular which include indications Solid Tumor, Lymphoma, Non-Small Cell Lung Cancer, Advanced Malignancy, Autoimmune Disorders, Diffuse Large B-Cell Lymphoma, Hepatocellular Carcinoma, Melanoma, Bladder Cancer, Blood Cancer, Cardiovascular Disease, Cervical Cancer, Chronic Inflammation, Chronic Lymphocytic Leukemia (CLL), Colon Carcinoma, Colorectal Cancer, Esophageal Cancer, Follicular Lymphoma, Gastric Cancer, Gastroesophageal (GE) Junction Carcinomas, Gliosarcoma, Head And Neck Cancer Squamous Cell Carcinoma, Hodgkin Lymphoma (B-Cell Hodgkin Lymphoma), Kidney Cancer (Renal Cell Cancer), Metastatic Breast Cancer, Metastatic Cancer, Metastatic Melanoma, Multiple Myeloma (Kahler Disease), Non-Hodgkin Lymphoma, Ovarian Cancer, Plaque Psoriasis (Psoriasis Vulgaris), Recurrent Glioblastoma Multiforme (GBM) and Renal Cell Carcinoma.



The latest report Lymphocyte Activation Gene 3 Protein - Pipeline Review, H1 2018, outlays comprehensive information on the Lymphocyte Activation Gene 3 Protein (Protein FDC or CD223 or LAG3) 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 Lymphocyte Activation Gene 3 Protein (Protein FDC or CD223 or LAG3) 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 Lymphocyte Activation Gene 3 Protein (Protein FDC or CD223 or LAG3)

The report reviews Lymphocyte Activation Gene 3 Protein (Protein FDC or CD223 or LAG3) 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 Lymphocyte Activation Gene 3 Protein (Protein FDC or CD223 or LAG3) targeted therapeutics and enlists all their major and minor projects

The report assesses Lymphocyte Activation Gene 3 Protein (Protein FDC or CD223 or LAG3) 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 Lymphocyte Activation Gene 3 Protein (Protein FDC or CD223 or LAG3) 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 Lymphocyte Activation Gene 3 Protein (Protein FDC or CD223 or LAG3)

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 Lymphocyte Activation Gene 3 Protein (Protein FDC or CD223 or LAG3) 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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Involved in Therapeutics Development

**ARMO Biosciences Inc** 

Boehringer Ingelheim GmbH

Bristol-Myers Squibb Co

Crescendo Biologics Ltd

**Enumeral Biomedical Holdings Inc** 

F-star Biotechnology Ltd

GigaGen Inc

GlaxoSmithKline Plc

Immutep Ltd

Incyte Corp

MacroGenics Inc

Merck & Co Inc

Novartis AG

Regeneron Pharmaceuticals Inc

Stcube Inc

Sutro Biopharma Inc

Symphogen A/S

Tesaro Inc

Xencor Inc

Lymphocyte Activation Gene 3 Protein (Protein FDC or CD223 or LAG3) - Drug Profiles AM-0003 - Drug Profile



**Product Description** 

Mechanism Of Action

**R&D Progress** 

AVA-017 - Drug Profile

**Product Description** 

Mechanism Of Action

**R&D Progress** 

BI-754111 - Drug Profile

**Product Description** 

Mechanism Of Action

R&D Progress

Bispecific Monoclonal Antibody to Inhibit LAG3 for Oncology - Drug Profile

**Product Description** 

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**Product Description** 

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**Product Description** 

Mechanism Of Action

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**Product Description** 

Mechanism Of Action

R&D Progress



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**Product Description** 

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**Product Description** 

Mechanism Of Action

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Monoclonal Antibodies to Inhibit LAG3 for Oncology - Drug Profile

**Product Description** 

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**Product Description** 



Mechanism Of Action

R&D Progress

Sym-022 - Drug Profile

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Featured News & Press Releases

Apr 11, 2018: Agenus Abstracts Accepted for Presentation at the American Association for Cancer Research (AACR) 2018 Annual Meeting

Apr 03, 2018: Immutep Provides Update On IMP761

Mar 06, 2018: Immutep Announces United States Patent Grant for IMP701 Antibody

Nov 10, 2017: MacroGenics Announces Poster Presentations on MGD013 at 32nd

Annual SITC Meeting 2017

Sep 08, 2017: Prima Secures Japanese Patent Grant for IMP731 Antibody

Sep 05, 2017: MacroGenics Provides Update on its DART candidate MGD013

Jul 16, 2017: Prima BioMed Announces Second Milestone Payment for IMP701

Program

Jun 04, 2017: Merck Strengthens Immuno-Oncology Portfolio through Expansion of F-star Collaboration including LAG-3/PD-L1 Bispecific Antibody

Jun 03, 2017: Anti-LAG-3 (BMS-986016) in Combination with Opdivo (nivolumab)

Showed Activity in Patients with Melanoma Who Were Relapsed or Refractory to Anti-PD-1/PD-L1 Therapy

May 01, 2017: TESARO Announces Submission of Investigational New Drug



Application for Anti-LAG Antibody TSR-033 to the U.S. FDA

Apr 05, 2017: F-star Presents Preclinical Data at AACR 2017 on Tumour Growth

Inhibition in Colon Carcinoma Models using Bispecific Antibodies

Jan 03, 2017: Prima Announces New Product Candidate IMP761 - A LAG-3 Agonist Antibody

Sep 20, 2016: F-star to Present Encouraging Preclinical Data on Lead Bispecific

Programme FS118 at Upcoming Conferences

Aug 25, 2016: European Patent Grants for IMP731 Antibody

Jun 07, 2016: F-star announces an agreement with CMC Biologics for manufacture of

mAb2 bispecific antibodies

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Number of Products by Stage and Molecule Types, H1 2018

#### **COMPANIES MENTIONED**

**ARMO Biosciences Inc** 

Boehringer Ingelheim GmbH

Bristol-Myers Squibb Co

Crescendo Biologics Ltd

Enumeral Biomedical Holdings Inc

F-star Biotechnology Ltd

GigaGen Inc

GlaxoSmithKline Plc

Immutep Ltd

Incyte Corp

MacroGenics Inc

Merck & Co Inc

Novartis AG

Regeneron Pharmaceuticals Inc

Stcube Inc

Sutro Biopharma Inc

Symphogen A/S

Tesaro Inc

Xencor Inc



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