

# Caspase 9 - Pipeline Review, H2 2019

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## Abstracts

Caspase 9 - Pipeline Review, H2 2019

### SUMMARY

Caspase 9 (Apoptotic Protease Mch 6 or Apoptotic Protease Activating Factor 3 or ICE Like Apoptotic Protease 6 or CASP9 or EC 3.4.22.62) pipeline Target constitutes close to 6 molecules. Out of which approximately 4 molecules are developed by companies and remaining by the universities/institutes. The latest report Caspase 9 - Pipeline Review, H2 2019, outlays comprehensive information on the Caspase 9 (Apoptotic Protease Mch 6 or Apoptotic Protease Activating Factor 3 or ICE Like Apoptotic Protease 6 or CASP9 or EC 3.4.22.62) targeted therapeutics, complete with analysis by indications, stage of development, mechanism of action (MoA), route of administration (RoA) and molecule type.

Caspase 9 (Apoptotic Protease Mch 6 or Apoptotic Protease Activating Factor 3 or ICE Like Apoptotic Protease 6 or CASP9 or EC 3.4.22.62) - Caspase-9 is an initiator caspase encoded by the CASP9 gene. Binding of caspase-9 to Apaf-1 leads to activation of the protease which cleaves and activates caspase-3. It is involved in the activation cascade of caspases responsible for apoptosis execution. It promotes DNA damage-induced apoptosis in an ABL1/c-Abl-dependent manner. The molecules developed by companies in Phase III and Preclinical stages are 2 and 2 respectively. Similarly, the universities portfolio in Preclinical and Discovery stages comprises 1 and 1 molecules, respectively. Report covers products from therapy areas Oncology, Hematological Disorders, Immunology, Metabolic Disorders, Ophthalmology and Toxicology which include indications Age Related Macular Degeneration, Bladder Cancer, Chemotherapy Induced Neutropenia, Colorectal Cancer, Diabetic Retinopathy, Febrile Neutropenia, Glioblastoma Multiforme (GBM), Graft Versus Host Disease (GVHD), Hepatocellular Carcinoma, Metastatic Brain Tumor, Metastatic Breast Cancer,

Metastatic Hormone Refractory (Castration Resistant, Androgen-Independent) Prostate Cancer, Multiple Myeloma (Kahler Disease), Non-Small Cell Lung Cancer, Prostate Cancer, Small-Cell Lung Cancer and Solid Tumor.

Furthermore, this report also reviews key players involved in Caspase 9 (Apoptotic Protease Mch 6 or Apoptotic Protease Activating Factor 3 or ICE Like Apoptotic Protease 6 or CASP9 or EC 3.4.22.62) 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.

## **SCOPE**

The report provides a snapshot of the global therapeutic landscape for Caspase 9 (Apoptotic Protease Mch 6 or Apoptotic Protease Activating Factor 3 or ICE Like Apoptotic Protease 6 or CASP9 or EC 3.4.22.62)

The report reviews Caspase 9 (Apoptotic Protease Mch 6 or Apoptotic Protease Activating Factor 3 or ICE Like Apoptotic Protease 6 or CASP9 or EC 3.4.22.62) 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 Caspase 9 (Apoptotic Protease Mch 6 or Apoptotic Protease Activating Factor 3 or ICE Like Apoptotic Protease 6 or CASP9 or EC 3.4.22.62) targeted therapeutics and enlists all their major and minor projects

The report assesses Caspase 9 (Apoptotic Protease Mch 6 or Apoptotic Protease Activating Factor 3 or ICE Like Apoptotic Protease 6 or CASP9 or EC 3.4.22.62) 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 Caspase 9 (Apoptotic Protease Mch 6 or Apoptotic Protease Activating Factor 3 or ICE Like Apoptotic Protease 6 or CASP9 or EC 3.4.22.62) 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 Caspase 9 (Apoptotic Protease Mch 6 or Apoptotic Protease Activating Factor 3 or ICE Like Apoptotic Protease 6 or CASP9 or EC 3.4.22.62)

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 Caspase 9 (Apoptotic Protease Mch 6 or Apoptotic Protease Activating Factor 3 or ICE Like Apoptotic Protease 6 or CASP9 or EC 3.4.22.62) 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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Bellicum Pharmaceuticals Inc

BeyondSpring Inc

Clayton Biotechnologies Inc

Marine Biomedical Research Institute of Qingdao

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Milestones

Featured News & Press Releases

Dec 10, 2019: BeyondSpring's study 106 phase 3 superior trial design combining plinabulin with pegfilgrastim versus pegfilgrastim alone for chemotherapy-induced neutropenia presented at ASH 2019 Annual Meeting

Dec 09, 2019: BeyondSpring's abstracts on clinical evidence for bone marrow stem cell protection as plinabulin's mechanism of action for CIN accepted at American Society of Hematology's 2019 Annual Meeting

Nov 11, 2019: BeyondSpring's single-blinded design of phase 3 study 103 (DUBLIN-3) prevented premature patient drop-out: Data Accepted for Presentation at SITC 2019

Oct 23, 2019: BeyondSpring enrolls first patient in global phase 3 clinical trial with Plinabulin in combination with G-CSF to prevent chemotherapy-induced neutropenia

Oct 17, 2019: BeyondSpring's Lead Asset, Plinabulin, granted U.S. patent covering methods of treating brain tumors

Oct 08, 2019: Cell journals publishes BeyondSpring's announces prenew data on mechanism of plinabulin to mature dendritic cells, leading to t-cell activation

Oct 01, 2019: BeyondSpring presents novel trial design for DUBLIN-3 study BPI-2358-103 at ESMO Congress 2019

Sep 23, 2019: BeyondSpring's Plinabulin continues to build on superior product profile in breast cancer trial for neutropenia prevention

Sep 10, 2019: BeyondSpring's Novel Study 103 Phase 3 Design in NSCLC Presented at 2019 IASLC World Conference on Lung Cancer

Aug 23, 2019: BeyondSpring plinabulin demonstrates superior quality of life over pegfilgrastim in a head-to-head comparison trial for the prevention of neutropenia

May 20, 2019: BeyondSpring abstract demonstrating bone pain benefit with lead asset, Plinabulin, versus Neulasta for neutropenia prevention Presented at ISPOR 2019

May 16, 2019: BeyondSpring's rationale for the plinabulin-neulasta combination for neutropenia prevention accepted as abstracts at 2019 ASCO Annual Meeting

Mar 26, 2019: BeyondSpring's lead asset, Plinabulin, shifts the balance of macrophages towards anti-cancer M1s

Mar 25, 2019: BeyondSpring advancing patient targeting strategies for lead asset Plinabulin

Mar 20, 2019: BeyondSpring to present clinical trial data on lead asset, Plinabulin, at 2019 St. Gallen International Breast Cancer Conference

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### COMPANIES MENTIONED

Bellicum Pharmaceuticals Inc

BeyondSpring Inc

Clayton Biotechnologies Inc

Marine Biomedical Research Institute of Qingdao



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