

# Proto Oncogene Tyrosine Protein Kinase ROS - Pipeline Review, H2 2019

<https://marketpublishers.com/r/P0A4F3125771EN.html>

Date: December 2019

Pages: 90

Price: US\$ 3,500.00 (Single User License)

ID: P0A4F3125771EN

## Abstracts

Proto Oncogene Tyrosine Protein Kinase ROS - Pipeline Review, H2 2019

### SUMMARY

Proto Oncogene Tyrosine Protein Kinase ROS (Proto Oncogene c Ros 1 or Receptor Tyrosine Kinase c Ros Oncogene 1 or c Ros Receptor Tyrosine Kinase or ROS1 or EC 2.7.10.1) - Proto-oncogene tyrosine-protein kinase ROS is an enzyme that in humans is encoded by the ROS1 gene. It activates several downstream signaling pathways related to cell differentiation, proliferation, growth and survival including the PI3 kinase-mTOR signaling pathway. It mediates the phosphorylation of PTPN11, an activator of this pathway. It phosphorylate and activate the transcription factor STAT3 to control anchorage-independent cell growth. It mediates the phosphorylation and the activation of VAV3, a guanine nucleotide exchange factor regulating cell morphology.

Proto Oncogene Tyrosine Protein Kinase ROS (Proto Oncogene c Ros 1 or Receptor Tyrosine Kinase c Ros Oncogene 1 or c Ros Receptor Tyrosine Kinase or ROS1 or EC 2.7.10.1) pipeline Target constitutes close to 9 molecules. Out of which approximately 8 molecules are developed by companies and remaining by the universities/institutes. The molecules developed by companies in Pre-Registration, Phase III, Phase II and Phase I stages are 1, 2, 3 and 2 respectively.

Similarly, the universities portfolio in Discovery stages comprises 1 molecules, respectively. Report covers products from therapy areas Oncology and Genetic Disorders which include indications Non-Small Cell Lung Cancer, Anaplastic Large Cell Lymphoma (ALCL), Neuroblastoma, Solid Tumor, Bile Duct Cancer (Cholangiocarcinoma), Colorectal Cancer, Glioblastoma Multiforme (GBM), Metastatic

Colorectal Cancer, Non-Hodgkin Lymphoma, Breast Cancer, Central Nervous System (CNS) Tumor, Gallbladder Cancer, Head And Neck Cancer, Leptomeningeal Disease (Neoplastic Meningitis, Leptomeningeal Carcinomatosis), Melanoma, Ovarian Cancer, Renal Cell Carcinoma, Salivary Gland Cancer, Acute Myelocytic Leukemia (AML, Acute Myeloblastic Leukemia), Adenocarcinoma, Adenocarcinoma Of The Gastroesophageal Junction, Anaplastic Thyroid Cancer, Angiosarcoma, Astrocytoma, Brain Cancer, Clear Cell Squamous Cell Carcinoma, Esophageal Cancer, Fibrosarcoma, Gastric Cancer, Head And Neck Cancer Squamous Cell Carcinoma, Hormone Sensitive Breast Cancer, Letterer-Siwe Disease (Multifocal and multisystemic (disseminated) Langerhans-cell histiocytosis), Liver Cancer, Lymphoma, Malignant Neoplasms, Malignant Pleural Mesothelioma, Mantle Cell Lymphoma, Metastatic Biliary Tract Cancer, Metastatic Breast Cancer, Metastatic Hepatocellular Carcinoma (HCC), Metastatic Hormone Refractory (Castration Resistant, Androgen-Independent) Prostate Cancer, Metastatic Melanoma, Metastatic Ovarian Cancer, Metastatic Pancreatic Cancer, Metastatic Transitional (Urothelial) Tract Cancer, Metastatic Uveal Melanoma, Neuroendocrine Tumors, Non-Small Cell Lung Carcinoma, Osteolytic Bone Metastasis, Papillary Renal Cell Carcinoma, Papillary Thyroid Cancer, Pediatric Diffuse Intrinsic Pontine Glioma, Refractory Acute Myeloid Leukemia, Relapsed Acute Myeloid Leukemia, Rhabdomyosarcoma, Sarcomas, Soft Tissue Sarcoma, Synovial Sarcoma, Triple-Negative Breast Cancer (TNBC), Uterine Cancer and Uveal Melanoma.

The latest report Proto Oncogene Tyrosine Protein Kinase ROS - Pipeline Review, H2 2019, outlays comprehensive information on the Proto Oncogene Tyrosine Protein Kinase ROS (Proto Oncogene c Ros 1 or Receptor Tyrosine Kinase c Ros Oncogene 1 or c Ros Receptor Tyrosine Kinase or ROS1 or EC 2.7.10.1) 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 Proto Oncogene Tyrosine Protein Kinase ROS (Proto Oncogene c Ros 1 or Receptor Tyrosine Kinase c Ros Oncogene 1 or c Ros Receptor Tyrosine Kinase or ROS1 or EC 2.7.10.1) 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.

## **SCOPE**

The report provides a snapshot of the global therapeutic landscape for Proto Oncogene Tyrosine Protein Kinase ROS (Proto Oncogene c Ros 1 or Receptor Tyrosine Kinase c Ros Oncogene 1 or c Ros Receptor Tyrosine Kinase or ROS1 or EC 2.7.10.1)

The report reviews Proto Oncogene Tyrosine Protein Kinase ROS (Proto Oncogene c Ros 1 or Receptor Tyrosine Kinase c Ros Oncogene 1 or c Ros Receptor Tyrosine Kinase or ROS1 or EC 2.7.10.1) 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 Proto Oncogene Tyrosine Protein Kinase ROS (Proto Oncogene c Ros 1 or Receptor Tyrosine Kinase c Ros Oncogene 1 or c Ros Receptor Tyrosine Kinase or ROS1 or EC 2.7.10.1) targeted therapeutics and enlists all their major and minor projects

The report assesses Proto Oncogene Tyrosine Protein Kinase ROS (Proto Oncogene c Ros 1 or Receptor Tyrosine Kinase c Ros Oncogene 1 or c Ros Receptor Tyrosine Kinase or ROS1 or EC 2.7.10.1) 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 Proto Oncogene Tyrosine Protein Kinase ROS (Proto Oncogene c Ros 1 or Receptor Tyrosine Kinase c Ros Oncogene 1 or c Ros Receptor Tyrosine Kinase or ROS1 or EC 2.7.10.1) 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 Proto Oncogene Tyrosine Protein Kinase ROS (Proto Oncogene c Ros 1 or Receptor Tyrosine Kinase c Ros Oncogene 1 or c Ros Receptor Tyrosine Kinase or ROS1 or EC 2.7.10.1)

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 Proto Oncogene Tyrosine Protein Kinase ROS (Proto Oncogene c Ros 1 or Receptor Tyrosine Kinase c Ros Oncogene 1 or c Ros Receptor Tyrosine Kinase or ROS1 or EC 2.7.10.1) 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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Ascentage Pharma Group International

Eli Lilly and Co

F. Hoffmann-La Roche Ltd

Pfizer Inc

Turning Point Therapeutics Inc

Xcovery Holding Company LLC

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Mechanism Of Action

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Product Description

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Proto Oncogene Tyrosine Protein Kinase ROS (Proto Oncogene c Ros 1 or Receptor Tyrosine Kinase c Ros Oncogene 1 or c Ros Receptor Tyrosine Kinase or ROS1 or EC 2.7.10.1) - Dormant Products

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Featured News & Press Releases

Dec 13, 2019: Lancet Oncology: Entrectinib effective, well-tolerated against ROS1 and

NTRK lung cancers, especially with brain metastases

Nov 12, 2019: Turning Point Therapeutics initiates phase 1/2 clinical study of Repotrectinib in pediatric patients

Nov 08, 2019: Crizotinib in c-MET- or ROS1-positive Non-Small Cell Lung Cancer

Oct 30, 2019: European Society for Medical Oncology: Phase I/II study results with Lorlatinib in ROS1-positive advanced NSCLC

Oct 29, 2019: Vanderbilt Oncologists publish results of first study to demonstrate clinical utility of resolution liquid biopsy assay to monitor response and resistance to Ensartinib

Oct 17, 2019: The Lancet Respiratory Medicine published study shows Ensartinib holds promise as a new treatment option for ALK-positive Non-Small Cell Lung Cancer (NSCLC)

Sep 25, 2019: Preclinical results of Baoyuan's next-generation ROS1/NTRK inhibitor AB-106 published in Nature Communications

Sep 06, 2019: Chugai files for expanded use of FoundationOne CDx Cancer Genomic Profile as a companion diagnostic of Rozlytrek for ROS1-positive NSCLC

Sep 04, 2019: Chugai launches Rozlytrek, an Anticancer Agent for the treatment of NTRK Fusion-Positive Solid Tumors

Sep 03, 2019: Turning Point Therapeutics announces updated interim clinical data of Repotrectinib

Aug 21, 2019: ROZLYTREK (entrectinib), FDA approved for hard-to-treat NTRK fusion-positive tumors, available at Biologics by McKesson

Aug 16, 2019: FDA approves Roche Rozlytrek (entrectinib) for people with ROS1-positive, metastatic non-small cell lung cancer and NTRK gene fusion-positive solid tumours

Aug 15, 2019: FDA approves third oncology drug that targets a key genetic driver of cancer, rather than a specific type of tumor

Jun 27, 2019: Chugai obtains Approval of FoundationOne CDx Cancer Genomic Profile as a Companion Diagnostic for Rozlytrek

Jun 19, 2019: Japan first to approve Roche's tumour-agnostic medicine Rozlytrek

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### COMPANIES MENTIONED

AnHeart Therapeutics Inc

Ascentage Pharma Group International

Eli Lilly and Co

F. Hoffmann-La Roche Ltd

Pfizer Inc

Turning Point Therapeutics Inc

Xcovery Holding Company LLC

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