

# Human Papillomavirus Protein E7 (E7) - Pipeline Review, H2 2019

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# **Abstracts**

Human Papillomavirus Protein E7 (E7) - Pipeline Review, H2 2019

#### **SUMMARY**

Human Papillomavirus Protein E7 (E7) pipeline Target constitutes close to 44 molecules. Out of which approximately 29 molecules are developed by companies and remaining by the universities/institutes. The latest report Human Papillomavirus Protein E7 (E7) - Pipeline Review, H2 2019, outlays comprehensive information on the Human Papillomavirus Protein E7 (E7) targeted therapeutics, complete with analysis by indications, stage of development, mechanism of action (MoA), route of administration (RoA) and molecule type.

Human Papillomavirus Protein E7 (E7) - Human Papilloma Virus (HPV) E7 protein belongs to a group of proteins called oncoproteins. It plays a role in viral genome replication by driving entry of quiescent cells into the cell cycle. E7 protein has both transforming and trans-activating activities. It induces the disassembly of the E2F1 transcription factor from RB1, with subsequent transcriptional activation of E2F1-regulated S-phase genes. Ii interferes with host histone deacetylation mediated by HDAC1 and HDAC2, leading to transcription activation. It plays an important role in the inhibition of both antiviral and antiproliferative functions of host inteferon alpha. The molecules developed by companies in Pre-Registration, Phase III, Phase II, Phase I, IND/CTA Filed, Preclinical and Discovery stages are 1, 1, 9, 4, 1, 11 and 2 respectively. Similarly, the universities portfolio in Phase II, Phase I, Preclinical and Discovery stages comprises 3, 4, 7 and 1 molecules, respectively. Report covers products from therapy areas Oncology, Women's Health, Infectious Disease and Gastrointestinal which include indications Human Papillomavirus (HPV) Associated Cancer, Cervical Cancer,



Cervical Intraepithelial Neoplasia (CIN), Head And Neck Cancer Squamous Cell Carcinoma, Anal Cancer, Oropharyngeal Cancer, Head And Neck Cancer, Human Papillomavirus Infections, Penile Cancer, Recurrent Head And Neck Cancer Squamous Cell Carcinoma, Vaginal Cancer, Vulvar Cancer, Anal Dysplasia, Glioblastoma Multiforme (GBM), Lung Cancer, Melanoma, Non-Small Cell Lung Carcinoma, Pancreatic Cancer, Rectal Cancer and Triple-Negative Breast Cancer (TNBC).

Furthermore, this report also reviews key players involved in Human Papillomavirus Protein E7 (E7) 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 Human Papillomavirus Protein E7 (E7)

The report reviews Human Papillomavirus Protein E7 (E7) 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 Human Papillomavirus Protein E7 (E7) targeted therapeutics and enlists all their major and minor projects

The report assesses Human Papillomavirus Protein E7 (E7) 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 Human Papillomavirus Protein E7 (E7) 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 Human Papillomavirus Protein E7 (E7)

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 Human Papillomavirus Protein E7 (E7) 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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Development

Abion Inc

Advaxis Inc

AstraZeneca Plc

**Bioleaders Corp** 

BioNTech SE

Cellid Co Ltd

Cue Biopharma Inc

**Etubics Corp** 

Genexine Inc

Hookipa Pharma Inc

iBio Inc

Immunomic Therapeutics Inc

IMV Inc

Innovene

Inovio Pharmaceuticals Inc

Oxford Vacmedix UK Ltd

Papivax LLC

Selecta Biosciences Inc

Touchlight Genetics Ltd

Transgene SA

UbiVac LLC

ViciniVax BV



Vir Biotechnology Inc

VLP The Vaccines Company SL

Human Papillomavirus Protein E7 (E7) - Drug Profiles

(bizalimogene ralaplasmid + mavilimogene ralaplasmid) - Drug Profile

**Product Description** 

Mechanism Of Action

**R&D Progress** 

ABI-231 - Drug Profile

**Product Description** 

Mechanism Of Action

R&D Progress

ABN-301 - Drug Profile

**Product Description** 

Mechanism Of Action

**R&D Progress** 

Antibodies to Inhibit E7 for HPV Associated Cancer - Drug Profile

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Mechanism Of Action

R&D Progress

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#### **COMPANIES MENTIONED**

Abion Inc

Advaxis Inc

AstraZeneca Plc

**Bioleaders Corp** 

BioNTech SE

Cellid Co Ltd

Cue Biopharma Inc

**Etubics Corp** 

Genexine Inc

Hookipa Pharma Inc

iBio Inc

Immunomic Therapeutics Inc

IMV Inc

Innovene

Inovio Pharmaceuticals Inc

Oxford Vacmedix UK Ltd

Papivax LLC

Selecta Biosciences Inc

Touchlight Genetics Ltd

Transgene SA

UbiVac LLC

ViciniVax BV

Vir Biotechnology Inc



VLP The Vaccines Company SL



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