Cancer Vaccines Drug Pipeline Update

Description: Cancer vaccines offer an attractive therapeutic addition, delivering treatment of high specificity, low toxicity and prolonged activity. However, despite years of R&D, a reproducible survival benefit has proved elusive, leaving the market wide open.

There are today 314 companies plus partners developing 386 cancer vaccine drugs in 784 developmental projects in cancer. In addition, there are 8 suspended drugs and the accumulated number of ceased drugs over the last years amount to another 208 drugs. Cancer Vaccines Drug Pipeline Update lists all drugs and gives you a progress analysis on each one of them. Identified drugs are linked to 195 different targets. All included targets have been cross-referenced for the presence of mutations associated with human cancer. To date 164 out of the 167 studied drug targets so far have been recorded with somatic mutations. The software application lets you narrow in on these mutations and links out to the mutational analysis for each of the drug targets for detailed information. All drugs targets are further categorized on in the software application by 46 classifications of molecular function and with pathway referrals to BioCarta, KEGG, NCI-Nature and NetPath.

Drug Pipeline Update at a Glance

Investigators
Includes more than 314 principal companies plus their collaborators. There is direct access from inside the application to web pages of all principal companies.

Note: You are able to sort and find drugs according to companies and partners from drop-down menus in the application. You may also sort and find drugs according to country of companies.

Drug name & Synonyms
Lists commercial, generic and code names for drugs.

Developmental stage
This Drug Pipeline Update contains 386 cancer vaccine drugs in development, which have a total of 784 developmental projects in cancer. In addition there are suspended and ceased drugs.

Pipeline Breakdown According to Number of Drugs
Marketed# 12
Registered# 1
Pre-registration# 2
Phase III# 30
Phase II# 138
Phase I# 110
Preclinical# 152
No Data# 7
Suspended# 8
Ceased# 208

Note: You are able to sort and find drugs according to developmental stage from drop-down menu in the application.

Indications
Included cancer vaccine drugs are also in development for 120 other indications, where of 85 are different cancer indications.

Note: You are able to find and sort drugs according to type of indication from drop-down menu in the application.

Targets
Mutations
All targets are cross-referenced with the Catalogue of Somatic Mutations in Cancer (COSMIC). It is designed
to store and display somatic mutation information and related details and contains information relating to human cancers. To date 164 out of the 167 studied drug targets so far have been recorded with somatic mutations and the software application lets you narrow in on these mutations and links out to the mutational analysis for each of the drug targets for detailed information.

Biological Structures
The identity of available biological structures on 127 drug targets was retrieved from the RCSB Protein Databank for you to easily review the 1869 structures available today among drug targets.

Identified drugs are linked to more than 195 different targets, divided into 46 classifications of molecular function:
- Acid phosphatase activity
- Carboxypeptidase activity
- Catalytic activity
- Cell adhesion molecule activity
- Chaperone activity
- Cofactor binding
- Complement activity
- Cytokine activity
- Cytoskeletal protein binding
- Defense/immunity protein activity
- DNA binding
- DNA topoisomerase activity
- DNA-directed DNA polymerase activity
- Growth factor activity
- GTPase activity
- Heat shock protein activity
- Helicase activity
- Hormone activity
- Hydrolase activity
- Isomerase activity
- Kinase binding
- Kinase regulator activity
- Metallopeptidase activity
- MHC class I receptor activity
- Molecular function unknown
- Motor activity
- Oxidoreductase activity
- Peptidase activity
- Peptide hormone
- Protein binding
- Protein serine/threonine kinase activity
- Protein-tyrosine kinase activity
- Receptor activity
- Receptor binding
- Receptor signaling complex scaffold activity
- Receptor signaling protein serine/threonine kinase activity
- Receptor signaling protein tyrosine phosphatase activity
- RNA-directed DNA polymerase activity
- Serine-type peptidase activity
- T cell receptor activity
- Transcription factor activity
- Transcription regulator activity
- Translation regulator activity
- Transmembrane receptor activity
- Transmembrane receptor protein tyrosine kinase activity
- Transporter activity

Sub-Cellular Localization
Identified targets are categorized into 27 different primary and alternate sub-cellular localizations:
- Apical membrane
- Cell junction
- Cell surface
- Centrosome
- Chromosome
- Clathrin-coated vesicle
- Cytoplasm
- Cytoskeleton
- Cytosol
- Endoplasmic reticulum
- Endosome
- Extracellular
- Extracellular matrix
- Golgi apparatus
- Integral to membrane
- Kinetochore
- Lysosome
- Microtubule
- Mitochondrial matrix
- Mitochondrion
- Nucleolus
- Nucleus
- Peroxisomal matrix
- Plasma membrane
- Sarcoplasmic reticulum
- Secreted
- Secretory granule

Note: You are able to find and sort drugs according to target gene name, protein name, molecular function of target, target localization, presence of mutations and availability of biological structures of target from drop-down menus in the application.

Target Expression Profile
Direct links are provided from inside the application to 242 protein expression profiles of 153 drug targets in various human tissues and cancer types, cell lines and primary cells, including up to:
- 48 different normal tissue types
- 20 different types of cancer
- 47 cell lines
- 12 samples of primary blood cells

Pathway Referals
Identified targets have been cross referenced against their involvement in different cellular pathways, according to BioCarta, KEGG, NCI-Nature and NetPath.
- BioCarta# 140 Pathways
- KEGG# 150 Pathways
- NCI-Nature# 170 Pathways
- NetPath# 28 Pathways

Note: You are able to find and sort drugs according to targeted pathways from drop-down menus in the application.

Mechanism
In total there are different drug mechanism of action represented in this Drug Pipeline Update.

Note: You are able to find and sort drugs according to mechanism of action from drop-down menu in the application.

Compound
Identified drug compounds are described by:

Compound type, Chemical name, CAS Number and molecular weight

Note: You are able to sort and find drugs according to compound type from drop-down menu in the application.

Drug Profile
Progress analysis and review of drug development. A typical drug profile reports on, depending on stage of development and available information:

**Drug Name & Synonyms**
Presentation of drug name and synonyms

**Principal Company & Partners**
Presentation of principal company and partners

**Target and Molecular Function of Target**
Described target(s) is/are presented with:
- Official Gene Symbol – Chromosome Location – Gene & Protein Name – Molecular Function

**Target Localization**
Described target(s) is/are presented with primary and alternate localizations.

**Target Expression Profiles**
Links to protein expression profile(s) of target(s) in various human tissues, cell lines and primary cells, including up to:
- 48 different normal tissue types
- 20 different types of cancer
- 47 cell lines
- 12 samples of primary blood cells

**Mutation**
All targets are cross-referenced with the Catalogue of Somatic Mutations in Cancer (COSMIC). It is designed to store and display somatic mutation information and related details and contains information relating to human cancers.

**Biological Structures**
The identity of available biological structures on drug targets was retrieved from the RCSB Protein Databank for you to easily review what available structures of drug targets exist.

**Targeted Pathways**
Described target(s) is/are matched for the involvement in cellular pathways according to BioCarta, KEGG, NCI -Nature and NetPath.

**Mechanism**
Drug mechanism of action

**Developmental Projects**
Summary field of developmental projects for the drug, including indication, developmental stage and status.
Example:
- Cancer, myeloma – Phase II Clinical Trial – Active
- Cancer, prostate – Phase III Clinical Trial – Ceased

**Drug BioSeeker Group's software**
Short introduction to drug

**Compound Data**
Compound type, Chemical name, CAS Number and molecular weight

**Patent Data**
Available patent information related to the drug is presented here.

**Fillings and Approvals**
Approvals and submissions
Analyst comments

**Deals & Licensing**
Collaborations and deals
Availability for licensing

**Phase IV Data**
Available Phase IV development data, developmental history and scientific data.

Phase III Data
Available Phase III development data, developmental history and scientific data.

Phase II Data
Available Phase II development data, developmental history and scientific data.

Phase I Data
Available Phase I development data, developmental history and scientific data.

Phase 0 Data
Available Phase 0 development data, developmental history and scientific data.

Preclinical Data
Available preclinical development data, developmental history and scientific data.

Discovery Data
Available discovery development data, developmental history and scientific data.

Application Features
Search, Find and Filter Panel with Initial Result Presentation
With this panel you can define your selectivity in each drug search with up to 24 different drug specific parameters. Each parameter has multi-select options to them and can be used as either an inclusion parameter or exclusion parameter.

The initial result table is a dynamic sortable table which gives you a fast overview of found results and can be narrowed down further by your own additional keywords.

Direct linkage from inside the application to related internet resources
- Drug data is linked to search engines like Google and PubMed
- Drug target data is linked directly to BioCarta, Human Protein Atlas, KEGG, NCI-Nature, NetPath etc.
- Direct links to company web pages of companies

Dynamic Report Generator
The dynamic report generator lets you with ease and speed generate html reports directly in your web browser (Internet Explorer and Firefox), whether it is a single drug profile or an entire search you want have a report of.

System Requirements
- Operating system: Windows (2000/XP/Vista/7/8) for Mac Users the service is only available online
- Browser Application (Internet Explorer, Firefox, Chrome, Safari)
- Internet access (to access related internet resources)

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