

Resource Summary Report

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Human Potential Tumor Associated Antigen database

RRID:SCR_002938

Type: Tool

Proper Citation

Human Potential Tumor Associated Antigen database (RRID:SCR_002938)

Resource Information

URL: <http://www.bioinfo.org.cn/hptaa/>

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Description: To accelerate the process of tumor antigen discovery, we generated a publicly available Human Potential Tumor Associated Antigen database (HPtaa) with pTAAs identified by insilico computing. 3518 potential targets have been included in the database, which is freely available to academic users. It successfully screened out 41 of 82 known Cancer-Testis antigens, 6 of 18 differentiation antigen, 2 of 2 oncofetal antigen, and 7 of 12 FDA approved cancer markers that have Gene ID, therefore will provide a good platform for identification of cancer target genes. This database utilizes expression data from various expression platforms, including carefully chosen publicly available microarray expression data, GEO SAGE data, Unigene expression data. In addition, other relevant databases required for TAA discovery such as CGAP, CCDS, gene ontology database etc, were also incorporated. In order to integrate different expression platforms together, various strategies and algorithms have been developed. Known tumor antigens are gathered from literature and serve as training sets. A total tumor specificity penalty was computed from positive clue penalty for differential expression in human cancers, the corresponding differential ratio, and normal tissue restriction penalty for each gene. We hope this database will help with the process of cancer immunome identification, thus help with improving the diagnosis and treatment of human carcinomas.

Synonyms: HPtaa Database

Resource Type: data or information resource, database

Defining Citation: [PMID:16381942](#)

Keywords: cancer, tumor, tumor-associated antigen

Funding: National 863 program in China 2001AA215411;
National Natural Science Foundation of China 30531160045;
National Natural Science Foundation of China 30570393;
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Resource Name: Human Potential Tumor Associated Antigen database

Resource ID: SCR_002938

Alternate IDs: nif-0000-02987

Old URLs: <http://www.hptaa.org>

Record Creation Time: 20220129T080216+0000

Record Last Update: 20250502T055350+0000

Ratings and Alerts

No rating or validation information has been found for Human Potential Tumor Associated Antigen database.

No alerts have been found for Human Potential Tumor Associated Antigen database.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#).

Pavlopoulou A, et al. (2015) Human cancer databases (review). Oncology reports, 33(1), 3.