

Resource Summary Report

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Avadis

RRID:SCR_000644

Type: Tool

Proper Citation

Avadis (RRID:SCR_000644)

Resource Information

URL: <http://www.avadis-ngs.com>

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Description: Software integrated platform that provides analysis, management and visualization tools for next-generation sequencing data. It supports workflows for RNA-Seq, DNA-Seq, ChIP-Seq and small RNA-Seq experiments. Avadis has a built-in Gene Ontology browser to view ontology hierarchies. There are common ontology paths for multiple genes. Platform has collection of data / text mining algorithms, data visualization libraries, workflow/application automation layers, and enterprise data organization functions. These functions are available as libraries that allow developers to rapidly build software prototypes, applications and off-the-shelf products. The collection of algorithms and visualizations in AVADIS grows as new applications using the platform are developed. Currently, the algorithms that AVADIS platform contains range from general purpose statistical mining and modelling algorithms, to text mining algorithms, to very application-specific algorithms for microarray / NGS data analysis, QSAR modelling and biological networks analysis. AVADIS has a collection of powerful mining algorithms like PCA, ANOVA, T-test, clustering, classification and regression methods. The range of visualizations includes most statistical and data modelling related graphing views, and very application-specific visualizations. Some of the statistical views include 2D/3D scatter plots, profile plots, heat maps, histograms and matrix plot; data modelling relevant views include dendrograms, cluster profiles, similarity images and SOM U-matrices. Application-specific views in AVADIS include pathway network views, genome browsers, chemical structure views and pipe-line views. Platform: Windows compatible, Mac OS X compatible, Linux compatible,

Abbreviations: Avadis

Synonyms: Access Visualize Analyze Discover, Avadis NGS

Resource Type: software resource, software toolkit, software library

Keywords: pathway network views, genome browsers, chemical structure views, pipe-line views, next-generation sequencing data, integrated platform, view ontology hierarchies, statistical mining and modelling, collection of data, text mining algorithms collection, data visualization libraries,

Funding:

Availability: Restricted

Resource Name: Avadis

Resource ID: SCR_000644

Alternate IDs: OMICS_01120, nlx_149208

Old URLs: <http://www.strandls.com/Avadis>

Record Creation Time: 20220129T080202+0000

Record Last Update: 20250519T204451+0000

Ratings and Alerts

- Used for RNA-Seq by the Human Islet Research Network community. Contact(s): [Diane Saunders](#), [Marcela Brissova](#), [John Walker](#), [Dale Greiner](#), [Al Powers](#) - Human Islets Research Network <https://hirnetwork.org/>

No alerts have been found for Avadis.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Saunders DC, et al. (2019) Ectonucleoside Triphosphate Diphosphohydrolase-3 Antibody Targets Adult Human Pancreatic ? Cells for In Vitro and In Vivo Analysis. Cell metabolism, 29(3), 745.

Hart NJ, et al. (2018) Cystic fibrosis-related diabetes is caused by islet loss and inflammation. JCI insight, 3(8).