Dear AT "Local Install" User:

This announces the latest release of ArrayTrack™ (AT) *v3.4.0*. The new version has several notable differences:

1) The ArrayTrack™ data batch import wizard provides a new function called SimpleTox Format. The SimpleTox input format makes data submission convenient and intuitive, particularly for the toxicogenomics' study data. SimpleTox utilizes controlled vocabulary from MIAME and SEND (Standard for Exchange of Nonclinical Data, http://www.fda.gov/oc/datacouncil/cdisc.html) to permit study data (e.g., animal data and toxicological endpoints) to be input together with corresponding array data. The study data is managed in the Study Domain for view and query and, ultimately, is linked to array data for phenotypically anchored analysis.
2) The popular SAM-Test tool is available. ArrayTrack's™ SAM is in R version 2.5.1. There are variations of test types, includes various analysis types like one-class, two-class unpaired/paired, one-class time course, two-class unpaired/paired time course, multiclass, survival, etc.
3) Several other new data analysis tools, such as K-mean clustering, are available.
4) Common pathways and/or GO terms shared by up to three lists of analytes can be determined. The analytes can be from the same experimental platform, such as genes from DNA microarrays. Alternatively, analytes can come from different technologies such as genomics, proteomics and metabolomics, thus expanding ArrayTrack's™ utility for systems biology.
5) Genes involved in a pathway or GO term can be readily saved for subsequent data analysis and modeling. This function is particularly useful if further analysis will focus on biological phenomena known to be associated with these genes, as would be the case when evaluating the biological plausibility of a particular molecular fingerprint.

You can try the new release using the on-line version at:
http://www.fda.gov/nctr/science/centers/toxicoinformatics/ArrayTrack/index.htm

If you would like to receive the new release on CD, please send a request (including your name, phone, and updated address) to us at:
NCTRBioinformaticsSupport@fda.hhs.gov

IMPORTANT: In order to assure that we send you the CD you need, it is imperative that you tell us the release version you are currently using, which is printed on your old CD. Alternatively, please let us know if you want to be removed from our user database and mailing list.

For users of version 3.3.0, the new release of version 3.4.0 will mainly update libraries. The client-side update will be done automatically when ArrayTrack™ is started.

As always, we would appreciate any feedback, suggestions or new ideas for improving ArrayTrack™.

Best regards,

Weida Tong
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NCTR/FDA, June 18, 2008