

oneChannelGUI Package: What is new

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1 oneChannelGUI Reference

oneChannelGUI: a graphical interface to Bioconductor tools, designed for life scientists who are not familiar with R language.

Sanges R, Cordero F, Calogero RA.

Bioinformatics. 2007 Dec 15;23, 24, 3406-8.

2 Updates

2.1 1.8.8

Bioconductor BeadStudio V3: report generated by BeadStudio V3 can be loaded in oneChannelGUI. BeadStudio V3 report MUST be a SAMPLE PROBE PROFILE containing at least

AVG_Signal

2.2 1.8.9

Fast parameter in GCRMA is set to FALSE.

2.3 1.10.7

Revised annotation for variant exons has been added. After statistical detection of putative splicing. It is now possible to select only exon-level probesets associated to non-constitutive exons, i.e. those exons associated only to a subset of isoforms.

2.4 1.10.8

Added Cosie method to correct SI index: Gaidatzis et al. Nucleic Acids Research, 2009, pg. 1. Since intcor function from metaArray package has a bug it was substituted by intCor from MergeMaid package. Alternative splicing events can be visualized on the UCSC Genome Browser via rtracklayer.

2.5 1.10.9

Starting from the work of Shah and Pallas work BMC Bioinformatics. 2009 Jan 20;10:26. Limma routines available for gene-level analysis were implemented at exon-level to detect alternative splicing events.

2.6 1.11.17

Using Bioconductor hugene10stprobeset.db, mogene10stprobeset.db and ragene10stprobeset.db for GENE 1.0 ST arrays instead of the internal annotation based on Affymetrix data.

2.7 1.13.4

Exon-level annotation is provided by three external packages: HuExExonProbesetLocationHg19, MoExExonProbesetLocation, RaExExonProbesetLocation. oneChannelGUI is now providing a basic interface to the secondary analysis of Next Generation Sequencing data. The interface is designed for ncRNAs quantification analysis.

2.8 1.15.1

Two groups linear model analysis with batch effect was added.