

# Resource Summary Report

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## Visualization and Analysis of Networks containing Experimental Data (VANTED)

RRID:SCR\_001138

Type: Tool

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### Proper Citation

Visualization and Analysis of Networks containing Experimental Data (VANTED)  
(RRID:SCR\_001138)

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### Resource Information

**URL:** <https://immersive-analytics.infotech.monash.edu/vanted/>

**Proper Citation:** Visualization and Analysis of Networks containing Experimental Data (VANTED) (RRID:SCR\_001138)

**Description:** Software tool for extendable network visualization and analysis for the life sciences. It is Java-based and allows users to create, edit and map data onto existing or new networks. Experimental datasets can be visualized on network elements as graphical charts to show time series data or data of different treatments, as well as environmental conditions in the context of the underlying biological processes. Users can utilize built-in statistical algorithms to evaluate mapped data.

**Abbreviations:** VANTED

**Synonyms:** Visualization and Analysis of Networks containing Experimental Data, VANTED v2

**Resource Type:** data analysis software, data processing software, data visualization software, software application, software resource

**Defining Citation:** [PMID:23140568](#)

**Keywords:** binary executable, simulation software, signal processing software, java, network visualization, statistical analysis, bio.tools

**Availability:** Open source

**Resource Name:** Visualization and Analysis of Networks containing Experimental Data (VANTED)

**Resource ID:** SCR\_001138

**Alternate IDs:** biotools:vanted, nif-0000-00373

**Alternate URLs:** <https://bitbucket.org/vanted-dev/vanted/src>, <https://bio.tools/vanted>

**Old URLs:** <http://vanted.ipk-gatersleben.de/>

**License URLs:** <https://immersive-analytics.infotech.monash.edu/vanted/index.php?file=doc122.html>

**Record Creation Time:** 20220129T080205+0000

**Record Last Update:** 20260821T193620+0000

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## Ratings and Alerts

No rating or validation information has been found for Visualization and Analysis of Networks containing Experimental Data (VANTED).

No alerts have been found for Visualization and Analysis of Networks containing Experimental Data (VANTED).

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 14 mentions in open access literature.

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

Selby-Pham J, et al. (2017) Diurnal Changes in Transcript and Metabolite Levels during the Iron Deficiency Response of Rice. *Rice* (New York, N.Y.), 10(1), 14.

Yamasaki Y, et al. (2016) A metabolic profile in *Ruditapes philippinarum* associated with growth-promoting effects of alginate hydrolysates. *Scientific reports*, 6, 29923.

Kohl S, et al. (2015) Metabolic and transcriptional transitions in barley glumes reveal a role as transitory resource buffers during endosperm filling. *Journal of experimental botany*, 66(5), 1397.

Bessho M, et al. (2014) Possible contribution of taurine to distorted glucagon secretion in intra-islet insulin deficiency: a metabolome analysis using a novel  $\alpha$ -cell model of insulin-deficient diabetes. *PloS one*, 9(11), e113254.

Tsuno S, et al. (2014) Hsa-miR-520d induces hepatoma cells to form normal liver tissues via a stemness-mediated process. *Scientific reports*, 4, 3852.

Fukushima A, et al. (2014) Integrated network analysis and effective tools in plant systems biology. *Frontiers in plant science*, 5, 598.

- Booth SC, et al. (2013) Computational tools for the secondary analysis of metabolomics experiments. *Computational and structural biotechnology journal*, 4, e201301003.
- Fukushima A, et al. (2013) Recent progress in the development of metabolome databases for plant systems biology. *Frontiers in plant science*, 4, 73.
- Mazein A, et al. (2013) A comprehensive machine-readable view of the mammalian cholesterol biosynthesis pathway. *Biochemical pharmacology*, 86(1), 56.
- Butler JA, et al. (2012) Profiling the anaerobic response of *C. elegans* using GC-MS. *PloS one*, 7(9), e46140.
- He S, et al. (2010) LucidDraw: efficiently visualizing complex biochemical networks within MATLAB. *BMC bioinformatics*, 11, 31.
- Byrnes RW, et al. (2009) An editor for pathway drawing and data visualization in the Biopathways Workbench. *BMC systems biology*, 3, 99.
- Coulibaly I, et al. (2008) Bioinformatic tools for inferring functional information from plant microarray data II: Analysis beyond single gene. *International journal of plant genomics*, 2008, 893941.
- Junker BH, et al. (2006) VANTED: a system for advanced data analysis and visualization in the context of biological networks. *BMC bioinformatics*, 7, 109.