

1. Introduction

TP Atlas navigates you through plans and accomplishments of the targeted proteins research. When a task is selected, a window composed of three sub-windows is displayed as shown in Figure 1. Left sub-window (left\_W) shows the pathway tackled by the subject, right sub-window (right\_W) shows the outline of the subject, and a table of various information of each protein is set in the bottom sub-window (bottom\_W) . These left\_W, right\_W and bottom\_W are interlinked. For example, when you click a protein X in right\_W, the protein X is centered in left\_W, and the protein X set at the top line of the bottom table.

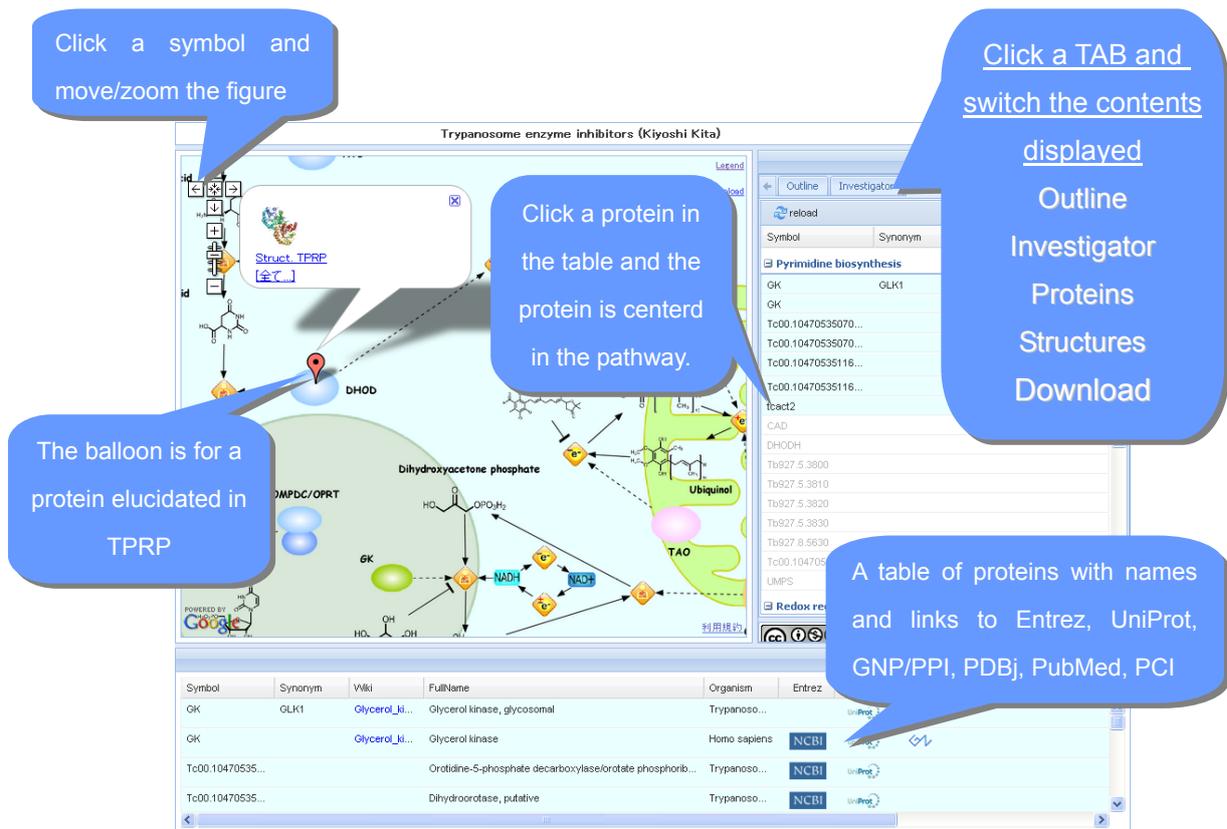


Fig. 1 View of TP Atlas

2. Left\_W

Click the symbol +, -, → on the left top and you can zoom or move the pathway in left\_W. Click a balloon in the figure and you can browse the summary information of the protein structure and its press release.

3. Right\_W

Right W can switch the display by clicking the tab.

- a. Outline                      The outline of theme is displayed.
- b. Investigator                Investigators is displayed.
- c. Proteins                      The list of the protein in left W is displayed.

d. Structures        The list of the protein is displayed.

e. Download

- Download Structure Gallery file

Protein information is downloaded in structural gallery form

([http://www.tanpaku.org/tp\\_gallery/tp\\_structure\\_list.xls](http://www.tanpaku.org/tp_gallery/tp_structure_list.xls)) .

- Download Tabular Summary file

Protein information is downloaded TP Table form

- Download Network file

The pathway chart is downloaded in XML form described Cell System Markup Language. It is possible to use Cell Illustrator on local PC

(<http://www.cellillustrator.com/home>).

- View locally by Cell Illustrator Player

You can locally view and process the network by Cell Illustrator Player.

#### 4. Bottom\_W

By each protein, the simple name, the code, the name, the organism, link to Entrez, UniProt, GNP (Genome Network Project [http://genomenetwork.nig.ac.jp/index\\_e.html](http://genomenetwork.nig.ac.jp/index_e.html)), PDB, Protein 3000 Structure Gallery (<http://mdbpr4.genes.nig.ac.jp/p3k/index.html.en>), TP Structure Gallery ([http://www.tanpaku.org/tp\\_gallery/e\\_index.php](http://www.tanpaku.org/tp_gallery/e_index.php)), PubMed, GNP and PCI(Protein-Compound Interaction Database [http://chem-web.genes.nig.ac.jp/pci\\_home\\_en.html](http://chem-web.genes.nig.ac.jp/pci_home_en.html)) are shown in one line.