

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.

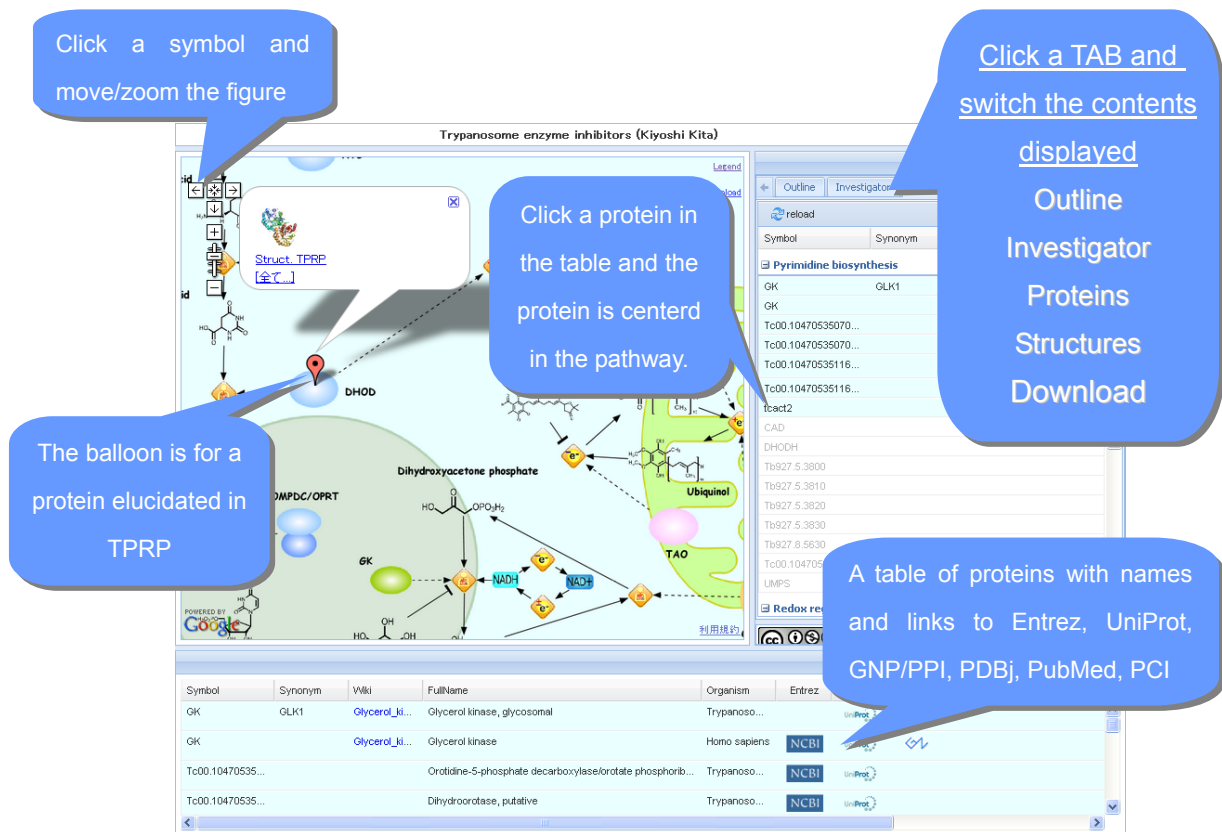


Fig. 1 View of TP Atlas

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) .

- 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), 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), PubMed, GNP and PCI(Protein-Compound Interaction Database http://chem-web.genes.nig.ac.jp/pci_home_en.html) are shown in one line.