DBCLS
Database Center for Life Science

Anatomography / BodyParts3D

(http://lifesciencedb.jp/ag/?locale=en)
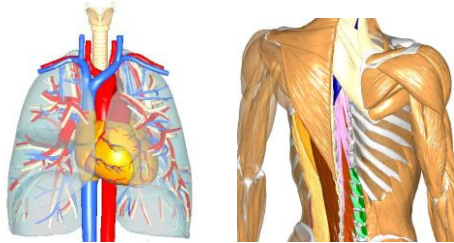
○ Brief Description

Anatomography is a web-based tool for generating an anatomical image by freely selecting body parts from a dictionary-type database (BodyParts3D). In this database, the shapes and positions of body parts are represented by 3D human models. The organ models (1314 in total) are downloadable .

○ Features

・ Generate an anatomical image

Users can readily generate an anatomical image (a regional or a whole part of the human body) by specifying the name of the body part, color, opacity and viewpoint of their choice.

・ Save an anatomical image as a URL

The created anatomical image can be saved as a dynamic URL that includes the parameters, part names, rendering settings and viewpoint. The saved URL can be copied and pasted to a Web page, or even be utilized within the users own system.

・ Download 3D human model data

The 3D human models (anatomical images) in Anatomography are downloadable for original use of the data.

○ Uses

・ For medical communication

Anatomography is useful for not only anatomy education or as a medical term dictionary, but can be used to share medical records such as lesion locations or surgery plans.

・ For creating a figure in a paper or a brochure

・ For creating a heatmap of the human body

Users can visualize, for example, gene expression data and cancer mortality of each organ by mapping organ-specific data on the 3D human model data.

○ Planned Features

・ Users will be able to mark anywhere on the 3D human models. Comments may be added to the marker and saved for later use.

・ Data entries of the BodyParts3D database will be increased and refined.

○ Questions & Comments   info@dbcls.rois.ac.jp

Reference

Mitsuhashi, N., et al., (2009). BodyParts3D: 3D structure database for anatomical concepts. *Nucl. Acids Res. 2009 37: D782-D785*

(As of September, 2010)