Most browsers available for visualizing and navigating the Gene Ontology™ display its polyhierarchical structure as a list of indented concepts. Figure 1 partially shows, for example, how the AmiGO browser visualize the concept **extrinsic plasma membrane protein**. As a result, although all the information needed to transform this representation into a graph structure is present, we argue that the cognitive effort required to do this transformation is probably unnecessary.

Applying the same techniques to the visualization of polyhierarchical structures from Gene Ontology, we developed GenNav. Figure 2 shows an example of the graphs produced by GenNav. In this example, the concepts used to annotate the gene **Dystrophin** include the cellular component **extrinsic plasma membrane protein**, also represented displayed in Figure 1, so the representation of this concept can be compared across the two figures.

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**Figure 1 – The AmiGO browser.**

**Figure 2 - Graph of the concepts related to “dystrophin” (DMD_HUMAN) in Gene Ontology.**