Contribution to SBGN contest: best SBGN outreach
lecture, training, publication, book, website

MetaCrop – Manually Curated and Layouted Pathways of Plant Metabolism

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This is a contribution to the contest in the area of websites. To promote SBGN within the plant research community, we extended our widely used plant metabolism database MetaCrop [1] with maps in SBGN notation using SBGN-ED [2]. The maps describe metabolic pathways in plants and contain metabolic processes, transport information, and compartments.

MetaCrop provides the SBGN maps in two different ways – as clickable image maps for online exploration and as SBGN-ML files for download and usage in other LibSBGN supporting tools. The glyphs of the clickable image maps are linked to entries in the database, thereby allowing for easy access to additional information. See http://metacrop.ipk-gatersleben.de for the database and the clickable SBGN maps. The SBGN-ML files can be accessed under the menu item *Pathways* or via the link http://pgrc-35.ipk-gatersleben.de/pls/htmldb_pgrc/f?p=METACROP:3 for direct access.

[1] E. Grafahrend-Belau, S. Weise, D. Koschützki, U. Scholz, B. H. Junker and F. Schreiber: MetaCrop - A detailed database of crop plant metabolism. Nucleic Acids Research, 36 (1): D954-D958, 2008.

[2] T. Czauderna, C. Klukas and F. Schreiber: Editing, validating, and translating of SBGN maps. Bioinformatics, 26 (18): 2340-2341, 2010.