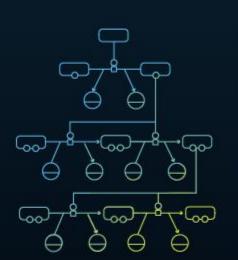
Symbol of the Month

Introduced by Nicolas Le Novère







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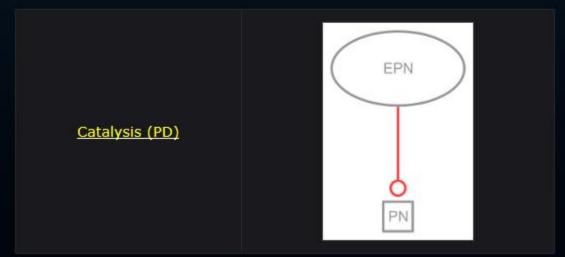
A Visual Notation for Network Diagrams in Biology

Welcome to the global portal for documentation, news, and other information about the **Systems Biology Graphical Notation** (SBGN) project, an effort to standardize the graphical notation used in maps of biological processes.

Quick start

Learn how to use SBGN Get involved

Symbol of the month



Survey. We need your help to make SBGN better. Find out more <u>here</u>.

(19 Apr. '13) The SBGN User

SBGN News

SBGN is the work of many people. It would not have been possible without the generous



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Symbol of the month series

- Jun 2013: PD Catalysis
- Apr 2013: PD Simple Chemical
- Mar 2013: PD Macromolecule
- Feb 2013: PD Consumption, Production and Reversible
- Jan 2013: PD Process
- Dec 2012: PD Inhibition
- Nov 2012: PD Stimulation

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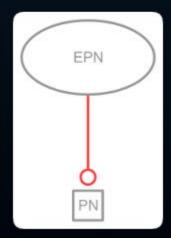
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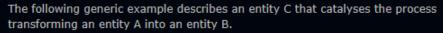
CATALYSIS

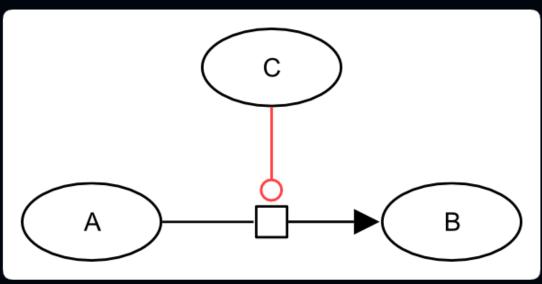
A catalysis is a particular case of stimulation, where the effector affects positively the flux of a process represented by the target process. The positive effect on the process is due to the lowering of the activation energy of a reaction. The target extremity of a catalysis carries an empty circle.

In SBGN Process Description language, the catalysis of a process is represented by the catalysis arc. The target extremity of a catalysis carries an empty circle. A catalysis arc starts from an entity pool node (labelled "EPN" in the figure below, representing for instance a pool of molecules) and ends on a process node (labelled "PN" in the figure below, representing for instance a reaction). In the drawing below, the catalysis arc is coloured in red:



The following generic example describes an entity C that catalyses the process transforming an entity A into an entity B.





The following actual example describes the conversion of glucose into glucose 6 phosphate, catalysed by the enzyme hexokinase.

