

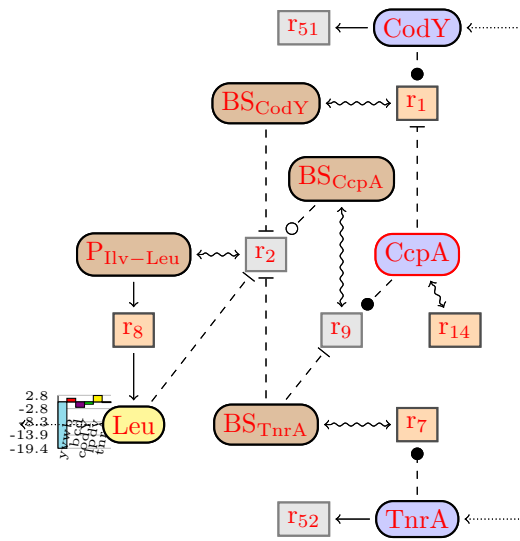
BioComputing's Network-Graph Tool  
Version 0.97

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1 Reaction Network Networks/PIlv-Leu.xml  
Graph, ODEs and Steady State Equations

1.1 Parameters

Reaction Network. See file: [Networks/PIlv-Leu.xml](#)  
See Figure 1.



S1. Solution

Fig. 1. The Networks/PIlv-Leu.xml.

Role	Short name	Chemical Species
Metabolites	Leu	Leucine
Proteines	CcpA	Carbon catabolite control protein A
	CodY	Transcriptional pleiotropic regulator
	TnrA	Nitrogen pleiotropic transcriptional regulator
Actors	BS_CodY	Activity of CodY binding to promotor P_Ilv-Leu
	P_Ilv-Leu	Activity of promotor of starting network producing of Leu
	BS_TnrA	Activity of TnrA binding to promotor P_Ilv-Leu
	BS_CcpA	Activity of CcpA binding to promotor P_Ilv-Leu without BS_TnrA loop

Fig. 2. Molecules of Networks/PIlv-Leu.xml.

Name	Function
r1	bind CodY to P_Ilv-Leu for inhibition
r1'	degradation of BS_CodY
r2	activate P_Ilv-Leu promotor
r2'	degradation of P_Ilv-Leu
r7	bind TnrA to P_Ilv-Leu promotor for inhibition
r7'	degradation of BS_TnrA
r9	bind CcpA to P_Ilv-Leu promotor without BS_TnrA loop
r9'	degradation of BS_CcpA
r51	CodY deactivation
r52	TnrA deactivation
r14	expressions of CcpA
r14'	degradation of CcpA
r8	P_Ilv-Leu expression followed by Leu production

**Fig. 3.** Reactions of Networks/PIIv-Leu.xml

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**1.2   What Else**

*Comments to be treated*