

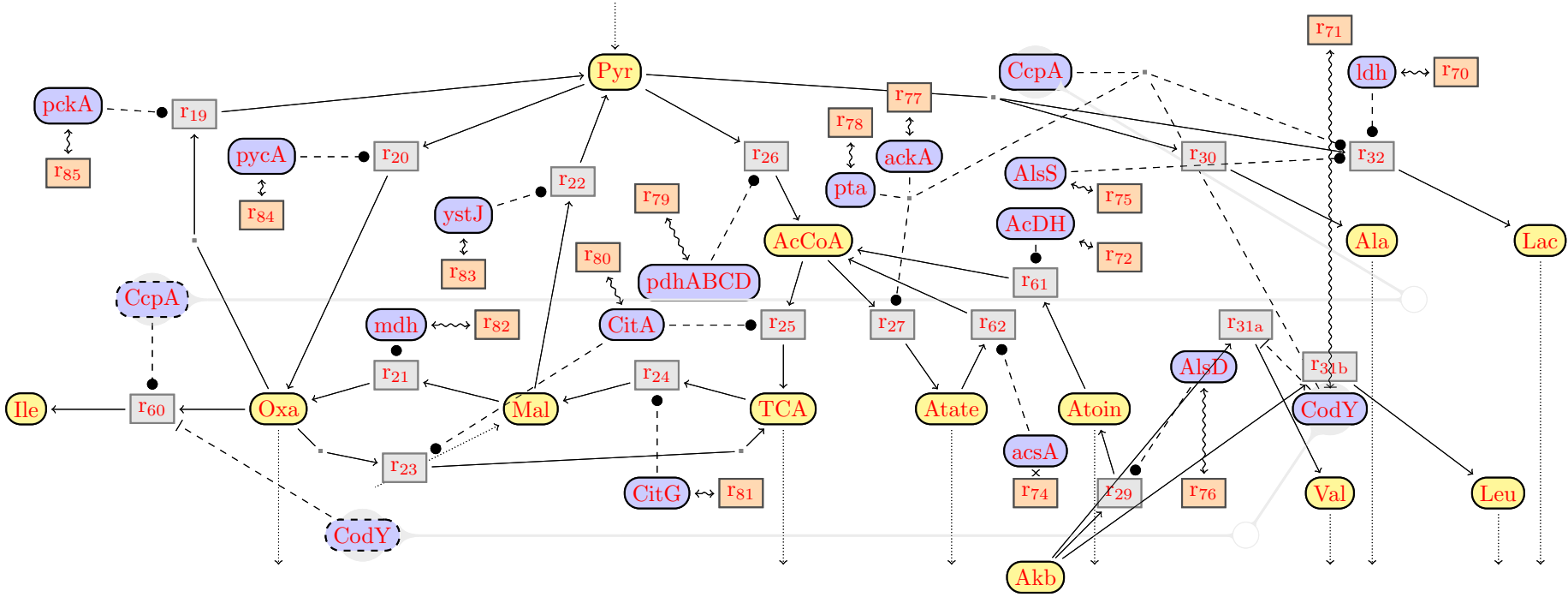
BioComputing's Network-Graph Tool
Version 0.99

Joachim Niehren
Inria & BioComputing, Lille, France

1 Reaction Network Networks/krebs.xml

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

Analysis [diff-means-native-10h-6h](#)



S1. Solution

Fig. 1. The Networks/krebs.xml.

Role	Short name	Chemical Species
Metabolites	Pyr	Pyruvate
	TCA	Krebs cycle
	Atoin	Acetoin
	Atate	Acetate
	Akb	L-2-amino-acetoacetate
	Ala	Alanine
	Lac	Lactate
	Val	Valine
	Leu	Leucine
	Ile	Isoleucine
	AcCoA	Acetyl CoA
	Oxa	Oxaloacetate
	Mal	D-Malate
	pdhABCD	Pyruvate d�lshydrogenase
Proteines	ystJ	Enzyme malique
	CitA	Citrate synthase
	CitG	Fumarase
	mdh	Malate deshydrogenase
	pckA	Phosphoenolpyruvate carboxykinase
	pycA	Pyruvate carboxylase
	ackA	Acetate kinase
	pta	Phosphotransacetylase
	AcDH	Acetoin deshydrogenase
	acsA	Acetyl CoA synthetase
	AlsS	�-acetolactate synthetase
	AlsD	�-acetolactate-dehydrogenase
	ldh	Lactate dehydrogenase
	CodY	Transcriptional pleiotropic regulator
	CcpA	Transcriptional activator

Fig. 2. Molecules of Networks/krebs.xml.

Name	Function
r19	Production of PEP throw Oxa
r20	Production of Atoin throw Pyr
r21	Production of Oxa throw Mal
r22	Production of Pyr throw Mal
r23	Production of TCA throw Oxa
r24	Production of Mal throw TCA
r25	Turn to TCA throw AcCoA
r26	Production of AcCoA from Pyr
r27	Production of Atate from AcCoA
r29	Production of Atoin from Aceto
r30	Production of Alanine from Pyr
r31a	Production of Val from Aceto
r31b	Production of Leu from Aceto
r32	Production of Lac from Pyr
r60	Production of Ile from Oxa
r61	Production of AcCoA from Atoin
r62	Production of AcCoA from Atate
r70	expression of ldh

r70'	degradation of ldh
r71	expression of CodY
r71'	degradation of CodY
r72	expression of AcDH
r72'	degradation of AcDH
r74	expression of acsA
r74'	degradation of acsA
r75	expression of AlsS
r75'	degradation of AlsS
r76	expression of eno
r76'	degradation of AlsD
r77	expression of ackA
r77'	degradation of ackA
r78	expression of pta
r78'	degradation of pta
r79	expression of pdhABCD
r79'	degradation of pdhABCD
r80	expression of CitA
r80'	degradation of CitA
r81	expression of CitG
r81'	degradation of CitG
r82	expression of mdh
r82'	degradation of mdh
r83	expression of ystJ
r83'	degradation of ystJ
r84	expression of pycA
r84'	degradation of pycA
r85	expression of pckA
r85'	degradation of pckA

Fig. 3. Reactions of Networks/krebs.xml

1.1 What Else

Comments to be treated A small FAQ