

Training material for model curation: Identifying and correcting errors in the model

Files and supporting materials are available at:
http://www.ebi.ac.uk/biomodels/training/error_identify

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The following models have some errors in it. Refer to the publication and identify the errors.

1. Nikolaev AV, Rozhilo YA, Starozhilova TK, Sarnatskaya VV, Yushko LA, Mikhailovskii SV, Kholodov AS, Lobanov AI. Mathematical model of binding of albumin-bilirubin complex to the surface of carbon pyropolymer. Bull Exp Biol Med. 2005 Sep; 140(3):365-9. [PMID: [16307060](#)]

SBML File : nikolaev05_error.xml
Article : nikolaev2005.pdf

Reproduce figures 2a and 2b of the reference publication.

2. Becker V, Schilling M, Bachmann J, Baumann U, Raue A, Maiwald T, Timmer J, Klingmüller U. Covering a broad dynamic range: information processing at the erythropoietin receptor. Science 2010 Jun; 328(5984):1404-8. [PMID: [20488988](#)]

SBML File : becker10_error.xml
Article : becker2010.pdf

Reproduce figure 2b of the reference publication.

3. Lebeda FJ, Adler M, Erickson K, Chushak Y. Onset dynamics of type A botulinum neurotoxin-induced paralysis. J Pharmacokinet Pharmacodyn. 2008 Jun; 35(3):251-67. [PMID: [18551355](#)]

SBML File : lebeda08_error.xml (3-step model).
Article : Lebeda2008.pdf

Reproduce figure 1 of the reference publication.

4. Bier M, Bakker BM, Westerhoff HV. How yeast cells synchronize their glycolytic oscillations: a perturbation analytic treatment. Biophys J 2000 Mar;78(3):1087-93. [PMID: [10692299](#)]

SBML File : bier00_error.xml
Article : Bier2000.pdf

Reproduce figure 3 of the reference publication.

5. Proctor Carole J, Gray Douglas A. Explaining oscillations and variability in the p53-Mdm2 system. BMC Syst Biol. 2008 Aug 18;2(1):75. [PMID: [18706112](#)]

SBML File : proctor08_ATM_error1.xml
Article : Proctor2008.pdf

Reproduce figure 13 (for ATM) of the reference publication.

SBML File : proctor08_ATM_error2.xml
Article : Proctor2008.pdf

Reproduce figure 13 (for ATM) of the reference publication.

6. Tyson JJ. Modeling the cell division cycle: cdc2 and cyclin interactions. Proc Natl Acad Sci U S A 1991 Aug;88(16):7328-32. [PMID: [1831270](#)]

SBML File : tyson91_error.xml
Article : Tyson1991.pdf

Reproduce figure 3A of the reference publication.