About the Software

The InSilicoMetabolism (ISM) software is a mathematical model of folate-mediated one-carbon metabolism (FOCM) and glutathione metabolism, based on known biochemistry and standard reaction kinetics. The model can be used to simulate genetic polymorphisms and variation in dietary input by changing appropriate parameters. The model then predicts the expected changes in metabolite concentrations and reaction velocities, under these altered conditions.

The current version of ISM (ISM.1) covers epithelial and mitochondrial FOCM and glutathione metabolism. Additional versions of ISM will expand and add on to this current model.

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