

An atlas of human metabolism

Jonathan L. Robinson, Pinar Kocabas, Hao Wang, Pierre-Etienne Cholley, Daniel Cook, Avlant Nilsson, Mihail Anton, Raphael Ferreira, Iván Domenzain, Virinchi Billa, Angelo Limeta, Alex Hedin, Johan Gustafsson, Eduard J. Kerkhoven, L. Thomas Svensson, Bernhard O. Palsson, Adil Mardinoglu, Lena Hansson, Mathias Uhlén and Jens Nielsen

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Reconstructing human metabolism in silico

Genome-scale models enable a holistic understanding of the interconnected pathways that form the basis for human metabolism. Robinson *et al.* generated Human1, an extensively curated, genome-scale model of human metabolism that unified two parallel model lineages using an open source repository to enable rapid, trackable updates. The authors also developed Metabolic Atlas (<https://www.metabolicatlas.org/>), an online platform for exploring Human1. They demonstrated the utility of Human1 by highlighting potential metabolic vulnerabilities in acute myeloid leukemia, predicting genes that are essential for specific metabolic tasks, and estimating metabolic fluxes and growth rates. Thus, Human1 and Metabolic Atlas advance the ability to model metabolic pathways relevant to human health and disease and provide a means of consolidating efforts in refining human genome-scale metabolic models.

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