

Genomic Scale Modeling Of Biological Systems

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genome scale biological models predicting the formation of an interaction among genetic materials enzymes and metabolites constitute a systematic and comprehensive platform to analyze and optimize the genome scale models have been under development since the first annotated genome sequences appeared in the late 1990s for most of this history the focus of gems has been on metabolism after initial successes with metabolic gems it became clear that the same approach could be applied to other ...

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Genome-scale models have been under development since the first annotated genome sequences appeared in the late 1990s. For most of this history, the focus of GEMs has been on metabolism. After initial successes with metabolic GEMs, it became clear that the same approach could be applied to other cellular process that could be reconstructed in biochemically accurate detail.

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Genome-scale metabolic models (GEMs) have been employed for studying human metabolism in a systematic manner, as well as for understanding complex human diseases. In the past decade, such metabolic models - one of the fundamental aspects of systems biology - have started contributing to the understanding of the mechanistic relationship between genotype and phenotype.

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