

## ベイジアンネットワークによる化学物質の毒性評価システムの構築

### Toxicity Evaluation System for Chemical Compounds Using Bayesian Net

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The evaluation and prediction of the RDT (repeated dose toxicity) of chemical compounds is an important issue. We need a comprehensive evaluation system using the results of similar compounds, their physical properties as well as knowledge on metabolism and toxicity mechanisms. We constructed a Bayesian net system that enables the evaluation of blood and liver toxicities by aromatic amines. A toxicologist can use the system in order to predict the toxicity of new chemicals and the interpretation of experimental results.