



Workshop on Modeling of Genetic Regulatory and Metabolic Networks

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Abstract
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Modeling pharmacogenomics data with Bayesian Networks

Pharmacogenomics is a pharmacology field which has emerged with microarray technology. The aim of this domain is to study the interaction between drugs and genomics, thanks to, for now, the use of microarrays for each patient, and the integration of clinical data. The idea is to capture knowledge from these data and to predict outcomes the most accurately as possible. The amount and the diversity of the generated data involve difficulties to extract relevant informations. We approach this problem by modeling with bayesian networks expression and clinical data. Since the dependency graph is not known, we use structure learning strategies to get it: this is the topic of this talk.

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