Résumé

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Some contributions of machine learning to bioinformatics:

Many problems in bioinformatics can be formulated as statistical and pattern recognition problems on non-standard objects, such as strings, graphs or high-dimensional vectors with particular structure. They have triggered many original developments in machine learning recently, in particular in the way data are represented and prior knowledge is introduced in the algorithm. In this talk I will present some of these developments through several examples in microarray data analysis and virtual screening.