

Pharmacogenomics and hypertension: the hypergenes project

HYPERGENES project is an European Commission Framework Program 7 initiative aiming to construct a genetic-epidemiological model for a complex disease. The underlying strategy is to develop an exhaustive model to disentangle the genetic bases of hypertension using population genetic epidemiology as a methodological tool. Specifically, the focus is not only on hypertension, but also ***relevant endophenotypes*** collected in most of the cases (several parameters of ***target organ damage and response to pharmacological treatment***). We have also complete data of ***2 formal pharmacogenomics experiments*** on hypertensive patients never treated before:

the first study consists of 550 EH patients whose treatment was hydrochlorothiazide

the second study consists of around 500 whose first treatment was Losartan

Pharmacogenomics studies performed according to a predefined protocol, consisting of 2 months of unique drug in single dose. The pharmacogenomics strategy and the major results will be discussed.