In this talk I present a parallel hybrid framework that combines gene expression programming (GEP) as the evolutionary problem-solving methodology and alternative meta-heuristics for tuning parameter values of parallel GEP runs. The implementation of our framework is based on a client-server architecture, including clients that use GEP to evolve candidate solutions for the problem in question, and clients that use (possibly) other meta-heuristics to tune GEP input parameters. We have used a suite of symbolic regression problems of different complexities to test this framework. Our results show that our approach provides a solution for the problem of automatically tuning two GEP input parameters, viz. the number of genes and the length of each gene.