

PorthoMCL: Parallel orthology prediction using MCL for the realm of massive genome availability

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Abstract

Background: Finding orthologous genes among multiple sequenced genomes is a primary step in comparative genomics studies. With the number of sequenced genomes increasing exponentially, comparative genomics becomes more powerful than ever for genomic analysis. However, the very large number of genomes in need of analysis makes conventional orthology prediction methods incapable of this task. Thus, an ultrafast tool is urgently needed.

Results: Here, we present PorthoMCL, a fast tool for finding orthologous genes among a very large number of genomes. PorthoMCL can be run on a single machine or in parallel on computer clusters. We have demonstrated PorthoMCL's capability by identifying orthologs in 2,758 prokaryotic genomes. The results are available for download at: <http://ehsan.ncu.go/porthomcl/>.

Conclusions: PorthoMCL is a fast and easy to run tool for identifying orthology among any number of genomes with minimal requirements. PorthoMCL will facilitate comparative genomics analysis with increasing number of available genomes thanks to the rapidly evolving sequencing technologies.

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ed kirkeby was waller s friend and manager during the last eight years of the musician s life which he recounts here in the first person against the background of the building of fats career

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fats waller wrote this oft recorded jazz tune with lyricist andy razaf and composer harry brooks for the off Broadway revue connie s hot chocolates even though the narrator is lonely he promises to stay true to his lover and he ain t misbehavin by

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the true part of the story about ain t misbehavin and waller s alimony troubles was that he was so strapped for cash that he sold the rights to all of the songs in hot chocolates for 500 a tiny fraction of what he would have earned in royalties from ain t misbehavin alone had he held on to the rights

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