Bioinformatics Efforts at Hiram College

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& the K84/S4 Genome Consortium (1)

Abstract:

Over the past few years, we have seen an increasing number of undergraduate computer science majors migrate towards bioinformatics as a possible career route and we have responded by putting together a team-taught bioinformatics course bringing together upper-level biology and computer science majors (2). Three independent research projects associated with this course are summarized in this poster. Two of the projects deal with bioinformatics solutions to an increasingly popular question in genomics – "how can one close an unfinished genome sequence of interest using the finished genomes of related organisms". The third project deals with searches for conserved intergenic sequences and the unexpected finding of unique repetitive elements in the *A. tumefaciens* C58 genome.

References:

1. K84/S4 Genome Consortium: Frank Arnold, Tom Burr, Sigrid Carle, Zijin Du, Adam Ewing, Stephen Farrand, Brad Goodner, Barry Goldman, Guixia Hao, Sara Heisel, Jinal Jhaveri, Subha Krishnan, Jing Lu, Nancy Miller, Eugene Nester, Gary Olsen, Dan Ondrusek, Nicole Pride, Joao Setubal, Steve Slater, Mark Vaudin, Lindsey Wilson, & Derek Wood.
2. http://cs.hiram.edu/%7Eguercioa/INTD388.html