

THE DISTILLERY

This week in techniques

Approach	Summary	Licensing status	Publication and contact information
Computational models			
High-speed, parallel DNA sequence assembly	A high-speed DNA sequence assembly algorithm, Assembly by Short Sequences (ABySS), could offer a quick and cost- effective way to identify disease-associated genetic mutations and polymorphisms. ABySS lowers the time needed to assemble large sets of gene sequence reads by distributing the task across a network of computers. The algorithm assembled about 3.5 billion paired-end reads from a sample human genome with 98.8% accuracy. The <i>Escherichia</i> <i>coli</i> K12 genome was also assembled with an accuracy comparable to that of other assembly algorithms. Next steps include increasing the accuracy of ABySS and adapting it for transcriptome analysis.	Software is unpatented; freely available at http:// www.bcgsc.ca/platform/ bioinfo/software/abyss	Simpson, J.T. <i>et al. Genome Res.</i> ; published online Feb. 27, 2009; doi:10.1101/gr.089532.108 Contact: Inanc Birol, British Columbia Cancer Agency, Vancouver, British Columbia, Canada e-mail: ibirol@bcgsc.ca
	SoiRX 2(10): doi:10.1028/coibx 2000.425		

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