

Fri 12/2/2011 8:52 AM

Re: National Bioeconomy Blueprint/DNA Sequencing

Hi Tom,

If you didn't see it, attached is yesterday's NYT article about the DNA sequence data glut. Basically, doing DNA analysis is now like drinking water out of a fire hose --

"The result is that the ability to determine DNA sequences is starting to outrun the ability of researchers to store, transmit and especially to analyze the data". "Data handling is now the bottleneck." ... "It costs more to analyze a genome than to sequence a genome."... "It's not at all clear what you do with (all) that data," "Doing a comprehensive analysis of it is essentially impossible at the moment."

Clearly, this DNA deficit adversely effects the National Bioeconomy in many different ways.

Originally, we were thinking about doing data discovery with our planned new software product, see attached. We branded this product MetaQor and it uses cloud computing. However, our new system is also a superb tool for very high throughput DNA data sequencing and analysis.

The MetaQor Cloud for DNA data sequencing and analysis could be made available to all Internet users at no or minimal cost, providing a key infrastructure element in the National Bioeconomy--IF we can solve the energy requirements to run the system. Large scale server plants consume huge amounts of electricity and adversely effect the economics. Researching and developing ways to economically solve this problem using alternative energy could make for an interesting, high payoff DOE grant. Would your office or OST have contacts at the DOE with whom I could speak to about this?

Many thanks,

Franco

Franco Vitaliano
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