

a role for glue people in big data research

OK Bill, you have a high profile opportunity
and you choose talking about glue people??

Why?

I thought maybe no one else would.



ICBR

- Interdisciplinary **C**enter for **B**iototechnology **R**esearch
- campus auxiliary organization -- which means we provide technology services through a cost-recovery model
- acquire, commission, and operate shared use instrumentation
- generate basic information about biological samples



a funny thing happened

WHAT IS BIG DATA?



everywhere... we're in a global marketplace

WHERE DO WE GENERATE BIG DATA?

... and we generate data locally



data for typical resequencing and sequencing projects

genome	size	sequence req.	type
human	3 Gb	100 Gb	resequencing
bacteria	5 Mb	300 Mb	sequencing

data stream: two examples

Instrument	output per work unit	file size	type	turn time
Illumina HiSeq	300 Gb	375 GB	.bcl (binary)	7-11 days
Pacbio RS	300 Mb	3 GB	HDF5	3 hours



anywhere and everywhere

WHERE DO WE ANALYZE BIG DATA?



I'm here and listening intently... seems
to be limitless possibilities

WHAT QUESTIONS WILL BIG DATA ADDRESS?

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The Role and Importance of 'Glue People' in Projects

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On the importance of liaisons for coordination of projects

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