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# 2012.05.21.1130: 3rd Annual UNT Open Access Symposium

Subject	<b>Panel 2: Researchers &amp; Data (Bob Hanisch (Space Telescope Institute) &amp; Michael Hulseley (BD Biosciences))</b>
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## NOTES

### Hanisch

- Astronomy: 70 data centers, 10K data resources, 0.5 Pb data/yr, request rate of 1Pb/yr; distributed and heterogeneous data
- Virtual data requests require computation on the fly
- Data archives are central to astronomy today =>no longer "second-class science" => archival research depends on Open Access
- Virtual Observatory is primarily a tool for data discovery, access, and integration
- The publications in astronomy are a fundamental part of the research itself
- What's next:
  - Long tail of data distribution
  - Long tail of astronomer distribution
  - Programmable Virtual Observatory (VO)
  - Scalable VO
- Data are both real and virtual in the VO
- Working to enrich data sharing and publishing infrastructure

### Hulseley

- Who owns the data? Who's responsible?
- It's your [i.e., librarians'] responsibility to get the word out about the tools available to scientists.

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