

Network Enabled Cancer Research in Middle East

Anil Srivastava

Open Health Systems Laboratory

Michael Sullivan

Internet2

- Connecting cancer centers across the world in a network—Cancer Collaboratory—using RENs
- Internet2 and Open Health Systems Laboratory working together
- Building upon existing resources/investments
- Work with users to first facilitate connection and then collaboration

Emerging Networks and Need

- Emerging RENs are making more and more bandwidth available
- Net+ initiative of Internet2 is focusing on:
 - Applications on top of the network
 - International collaboration
- On the other hand medical research is increasing reliant on use of biomedical informatics

Supporting Initiatives

- cancer Biomedical Informatics Grid (caBIG)
 - Interoperability
 - Standard based
 - Open source
 - <http://cabig.cancer.gov>
- TeleSynergy, an NCI initiative to connect cancer researchers through videoconference
 - King Hussein Cancer Center, Amman, Jordan is one of the TeleSynergy nodes
 - <http://telesynergy.nih.gov/>

Trick is...

- Identify the use case involving at least one or more institutions from
 - Middle East
 - US
 - Third Country
- Work with participating institutions
 - establish “easy to use” connection
 - Prepare and share
 - Information on participating institutes
 - operating procedures

For example...

- Indo-US Cancer Research Grid
 - Analysis of protein folding data at Georgetown (PIR) using India's CDAC BRAF supercomputing facility by Indian and American scientists
- Poland-US Cancer Research Collaboration
 - Cancer centers in Poland connecting to cooperating centers in US using PIONIER: Polish Optical Internet and Internet2 backbone

Further efforts...

- OHSL and Internet2 working with cancer centers in US to further establish and consolidate networking amongst US cancer centers, including
 - Duke University
 - University of Washington
 - Johns Hopkins University
 - Moffit Cancer Institute
 - MD Anderson

Contacts

Anil Srivastava

anil.srivastava@sriban.com



Michael Sullivan

msullivan@internet2.edu

