July 24: Dr. Daoud Meerzaman, Computational Tools for Cancer Genome Analysis

SYNOPSIS:

Current technology permits genome-wide generation of multidimensional molecular data assessing copy number alterations, nucleotide substitutions, insertion or deletions, rearrangements, and epigenetic changes. Furthermore, next-generation sequencing technology provides complete gene and genome sequence. The CBIIT CGR team has created approaches and tools to integrate, display, and interpret these diverse, system-wide data. The CGR team has provided tools, analytic capacity, and bioinformatics support to the specific groups in the Cancer Genomic Atlas project (TCGA) and TARGET projects as well as investigators within the NCI community. More specifically, the CBIIT-CGR team leveraged its analytic pipelines to determine the quality of data submitted to the data coordinating centers and to computationally identify features for confirmation by other groups and validation in bench-based experiments. The team performed the primary sequence analysis for the TARGET consortium.

Session details...

BIO:

Dr. Daoud Meerzaman is the Director of R&D/Section Head of Computational Genomics Research (CGR) at the Center for Biomedical Informatics and Information Technology (CBIIT) at the National Cancer institute (NCI). Previously, Dr. Meerzaman served as the Scientific Project Manager at the Center for Cancer Research at NCI. Under his leadership, the CGR group focuses on identifying genes and their associated networks that are important in cancer. Bioinformatics analyses are used to translate genetic and genomic observations into insights concerning cancer etiology. The team has developed and continues to develop bioinformatics tools and methods to provide bioinformatics analysis support for the NCI, as well as for the Therapeutically Applicable Research to Generate Effective Treatments (TARGET) project. Dr. Meerzaman has published many articles in peer-reviewed journals and served as an invited reviewer for scientific journals. He also serves as an adjunct faculty member at the George Washington University in Washington, D. C., where he currently teaches molecular mechanisms of cancer. Dr. Meerzaman received his B.S. and doctorate degrees from the George Washington University.

SUMMARY:

Topic: Computational Tools for Cancer Genome Analysis

Speaker: Dr. Daoud Meerzaman

Date: Wednesday, July 24, 2013

Time: 11 AM – 12 PM

You are invited to watch Dr. Meerzaman's presentation at TE408-410 (East side) Training Room in the NCI Shady Grove Building on Medical Center Drive or via WebEx.

Presentation: A screen cast of the presentation will be available for viewing after the event here on our Speaker Series Videos page and on the NCI's CBIIT Speaker Series YouTube Playlist 🗗 .

About the NCI CBIIT Speaker Series:

The National Cancer Institute (NCI) Center for Biomedical Informatics and Information Technology (CBIIT) Speaker Series is a bi-weekly knowledge-sharing forum featuring both internal and external speakers on topics of interest to the biomedical informatics and research communities. For additional information, including past speaker series presentations, visit the CBIIT Speaker Series page.

Questions? Please email us at NCICBIITcomms@mail.nih.gov.

Individuals with disabilities who need reasonable accommodation to participate in this program should contact the Office of Space and Facilities Management (OSFM) at 240-276-5900 or the Federal TTY Relay number 1-800-877-8339.