



HCGS

Hubbard Center for Genome Studies

April 2015

Issue 4



NEWSLETTER

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Happenings at HCGS:

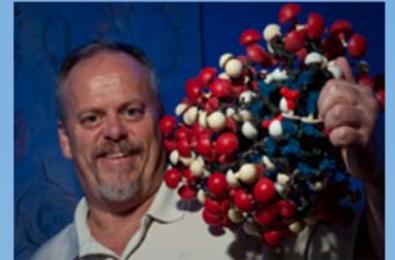
April was a busy month at the HCGS. We traveled to Keene to deliver a bioinformatics workshop focused on accessing and using command line tools (See next page). A grant was submitted to further our work studying the long-term effects of the Deepwater Horizon oil spill, and we are participating in the development of an EPSCOR proposal. We'd also like to give a shout out to the Whistler, Cooper and Jones lab groups on their forthcoming paper on methods to detect pathogenic *Vibrio* strains in shellfish.

UNH Researchers Make Breakthrough in Detecting Most Common Bacteria Contaminating Oysters



Photo credit:
UNH communi-
cations and
public affairs.

[Decoding the human genome sequence] is the most significant undertaking that we have mounted so far in an organized way in all of science. I believe that reading our blueprints, cataloguing our own instruction book, will be judged by history as more significant than even splitting the atom or going to the moon. — Francis S. Collins



Staff Profiles:

Kelley Thomas completed his Master's and Ph.D. at Simon Fraser University in Burnaby, British Columbia and went on to do a post-doc with Allan Wilson at the University of California, Berkeley. After seven years at the University of Missouri – Kansas City where he ran the DNA sequencing core, Kelley started at UNH in 2002 as Co-Director of the Hubbard Center for Genome Studies. His research interests focus on molecular evolution and biodiversity. This interest in molecular evolution fuels a variety of research project from natural and artificial selection to understanding how organisms interact with and respond to their environment. Kelley is also interested in research and infrastructure development and works with other groups at UNH to build or develop shared infrastructure and facilities to enhance the research mission of COLSA and UNH.

Upcoming Events:

August 6-7, 2015

NH-INBRE Annual Meeting at the Wentworth by the sea in Newcastle, N.H. Registration is now open.

July 26-31, 2015

RCN EukHiTS 2015 Workshop/
The 2015 Bioinformatics & Biodiversity.

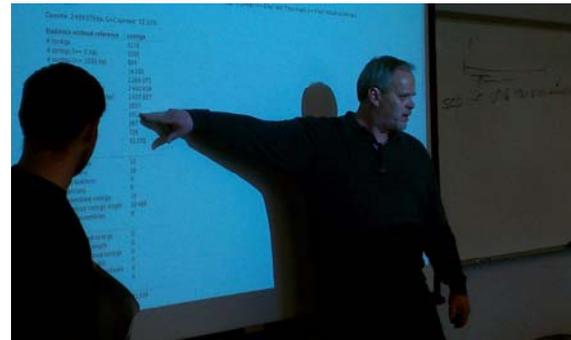
September 24-26, 2015

The Sixth Northeast Regional Institutional Development Award (IDeA) Conference brings together individuals representing IDeA Networks of Biomedical Research Excellence (INBRE), Centers of Biomedical Research Excellence (COBRE), and IDeA Clinical and Translational Research programs from Delaware, Maine, New Hampshire, Rhode Island, and Vermont.



Keene State College Workshop:

Kelley Thomas and members of the UNH Bioinformatics Core offered a lecture and workshop on Friday, April 17, 2015 at KSC. Over 30 faculty and students attended the lecture from 1:00-2:00, and over 20 attended the hands-on workshop from 2:00-4:30. This was the first iteration of this workshop, which HCGS will be offering across NH to INBRE partners.



A blurb on the BaseSpace 2015 WWDC @ The Broad



The mottos of the workshop were:

- Create your own Apps in BaseSpace!
- Publish your favorite novel algorithms or applications on BaseSpace.

At this free event, participants learned how to build and launch their own bioinformatics Apps in BaseSpace. The intent of the workshop was to entice participants to make an impact on the analysis and interpretation of genomic information by publishing their own BaseSpace Apps! Overall I had a positive experience. The organizers made no assumptions and led us through a mock app development from the ground up. So in the spirit of knowledge sharing, if readers have an idea for a BaseSpace App that they would like to see developed, I am willing to tackle it. All you have to do is provide a detailed walk thru of the process you would like to see implemented in the form of: a paragraph of purpose, required inputs and desired output. The information can be sent to Feseha by e-mail to: fai4@wildcats.unh.edu.

Anything you'd like to see covered in our newsletter?

Email Cindy at Cynthia.Wiggin@unh.edu.

Publications

If you have any publications resulting from data generated by the HCGS that you would like to have listed here, please send the citation to Cynthia.wiggin@unh.edu.

Whistler, C.A, Hall, J.A., Xu, F., Ilyas, S., Siwakoti, P., Cooper, V.S., and Jones, S.H., 2015, Use of Whole Genome Phylogeny and Comparisons in the Development of a Multiplex-PCR Assay to Identify Sequence Type 36 *Vibrio parahaemolyticus*. *JCM in press*. doi: 10.1128/JCM.00034-15.