



# HCGS

Hubbard Center for Genome Studies

May 2015  
Issue 5



## NEWSLETTER

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### Happenings at HCGS:

#### Pricing changes:

When the new fiscal year (FY16) starts July 1, 2016, the HCGS will be implementing a new cost structure for some services. The cost/rate analysis took about a month to formalize and was shared with the COLSA BSC and the UNH Office of the Vice President for Finance and Administration. The new rates will be posted next week at our website at <http://hcg.unh.edu> under services and pricing. All samples received by June 26, 2015 will be charged at the FY15 (current) rates.

#### Summer 2015/New Faces:

The summer term has started and we will have some new faces around the HCGS. Jeff Hall will be joining our group for the summer working on some special projects. We have two undergraduate student that will be joining our group through the INBRE-iSURF program, Louisa Normington and Shane Kochvi. We will also be hosting high school from the Seacoast School of Technology.

### Links to Cheryl Whistler's NPR Interview and article about patent

<http://nhpr.org/post/unh-researchers-hone-harmful-oyster-bacteria>

<http://colsa.unh.edu/aes/article/vibriopatent>



Photo credit: By Peter Biello • May 11, 2015

During this period, I became interested in how the new techniques of cloning and sequencing DNA could influence the study of genetics and I was an early and active proponent of the Human Genome Sequencing Project.

- Sydney Brenner



### Staff Profiles:

Krystalynne Morris started her addiction to molecular biology work from her first semester as an undergraduate at the University of Missouri-Kansas City (UMKC). She completed her Bachelor's Degree in biology with a minor in chemistry in 2000, and her M.B.A. at UNH in 2006. Krys worked as a technician and DNA Sequencing Core Manager at UMKC from 1996 to 2001, and then moved to the HCGS at UNH in 2002. DNA core facility work is challenging, but her favorite thing about her job is watching what people do with their data and how they succeed. Krys's research interests include molecular evolution, phylogenetics, and bioinformatics. She also has a soft spot for nematode research, as that was her first model organism when she started working in the lab. Outside of the lab, Krys enjoys reading, writing, and spending time with her grown up kids. She enjoys working with and supporting groups like Special Olympics, Best Buddies, and Friends in Action NH.

## RCN EukHiTS 2015 Workshop

# Bioinformatics & Biodiversity

Undergraduate Workshop

July 27 – 30, 2015

**UC DAVIS**  
UNIVERSITY OF CALIFORNIA

**ECSU**  
ELIZABETH CITY STATE UNIVERSITY



**UTSA**

**UNH** University of  
New Hampshire

### Cellular Sleuth

Research on protein p53 and its role in the development of cancer.

Caelie Kern '16, a Neuroscience and Behavior major, is currently assisting Professor Chuck Walker with his research on the protein p53's role in the development of cancer.



See more at: <http://www.bmc.b.unh.edu/#sthash.biGSvhsK.dpuf>

By Victoria Forester Courtland

### Three Grad Students Receive Prestigious NSF Fellowships

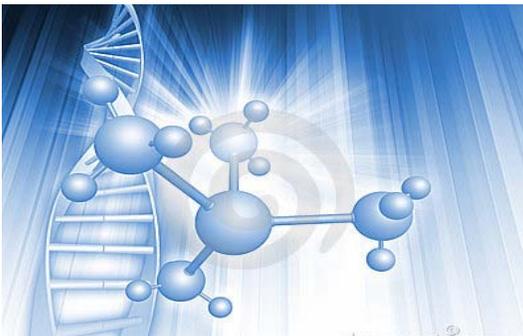
Research fellowships fund study on invasive plants, bobcats, theoretical physics

Three UNH students have received National Science Foundation Graduate Research Fellowships, one of the nation's premier national science, math, engineering and technology (STEM) scholarship competitions. Mark Anthony (natural resources) of Hinsdale, Mass., and Rory Carroll (Earth systems science) of Dover, both second-year graduate students, and Herbie Smith, a senior physics major from Rocky Face, Ga., are NSF Graduate Research Fellowship Program fellows.

NSF GRFP fellows receive up to three years of support, including an annual \$32,000 stipend, a \$12,000 cost-of-education allowance and opportunities for international research and professional development. This year, more than 16,500 applicants competed for 2,000 awards.

Written by Jeanne Sokolowski | Office of National Fellowships

<http://unh.edu/unhtoday/2015/04/three-grad-students-receive-prestigious-nsf-fellowships>



#### 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](mailto:Cynthia.wiggin@unh.edu).

Kovach, Adrienne I., Walsh, Ramsdell Jordan, Thomas, W. Kelley, 2015. Development of diagnostic microsatellite markers from whole-genome sequences of *Ammodramus* sparrows for assessing admixture in a hybrid zone. *Ecology and Evolution*. doi: 10.1002/ece3.1514

Sevigny JL, Kirouac LE, Thomas WK, Ramsdell JS, Lawlor KE, Sharifi O, Grewal S, Baysdorfer C, Curr K, Naimie AA, Okamoto K, Murray JA, Newcomb JM, The Mitochondrial Genomes of the Nudibranch Mollusks, *Melibe leonina* and *Tritonia diomedea*, and Their Impact on Gastropod Phylogeny. *PLoS One*. 2015 May 21;10(5):e0127519.

Anything you'd like to see covered in our newsletter?  
Email Cindy at  
[Cynthia.Wiggin@unh.edu](mailto:Cynthia.Wiggin@unh.edu).