**CSHL in the News**

**Long Island Business News**  
[Cold Spring Harbor Lab running low on space](#)  
 August 19, 2011

**CBS News**  
[Prostate cancer advance promises better diagnosis, treatment](#)  
 August 16, 2011

**New York Daily News**  
[New tumor suppressor gene discovered](#)  
 August 16, 2011

**Crain's New York**  
[Northshore-LIJ sees need for workplace docs](#)  
 August 11, 2011

**Science-Business eXchange**  
[Bromodomain brake on AML](#)  
 August 11, 2011

**The Wall Street Journal**  
[Care, research, education are Foundation's trinity](#)  
 August 4, 2011

**National Science Foundation**  
[Plant biologists dissect genetic mechanism enabling plants to overcome environmental challenge](#)  
 August 1, 2011

Read [more news](#).

**Upcoming Events**

9/9/11  
[Concert: Bella Hristova](#)

9/13/11  
 10th Annual Women's Partnership for Science  
[Lecture and Luncheon](#)

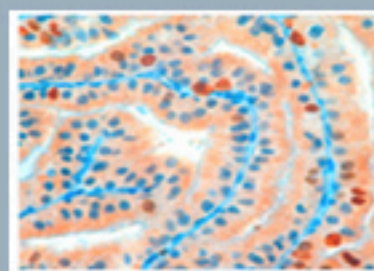
9/18/11  
 The Christina Renna Foundation Inc.  
[2011 Walk-A-Thon, Race & Blood Drive](#)

9/23/11  
[Concert: Natalia Lavrova](#)

9/24/11  
[8th Annual Diane Emdin Sachs Memorial Walk](#)  
 Raising money for lung cancer research at CSHL

**Prostate cancer discovery could improve diagnosis, treatment**

Only 1% of the 250,000 American men diagnosed with prostate cancer this year will develop lethal, metastatic disease, with the rest of those diagnosed developing non-lethal cancer. CSHL Assistant Professor **Lloyd Trotman** and his team have taken a major step toward being able to distinguish between these two groups by asking whether there are specific rules and conditions for prostate cancer to become lethal.

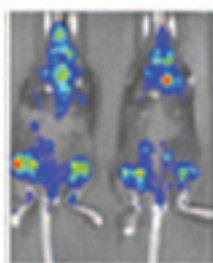


Loss of tumor suppressor genes *Pten* and *Phlpp1* results in increased proliferation in mouse prostate tumors

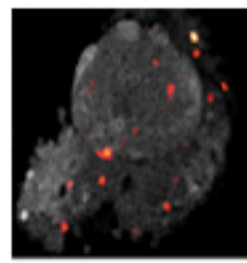
Their latest study in mouse models shows that prostate cancer outcome is dictated by the relationship between two genes, *PTEN* and *PHLPP1*, which normally act as tumor suppressors but become mutated in cancer. The loss of these two genes and the "master tumor suppressor" *P53* is a hallmark feature of the majority of metastatic prostate cancers, the scientists found. So a future test to measure the activity levels of these genes might help determine whether a patient's cancer will turn metastatic.

**A powerful new drug candidate for leukemia**

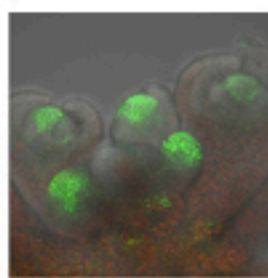
Researchers led by CSHL Fellow **Chris Vakoc** have used an unconventional approach based on cutting-edge RNA interference (RNAi) technology to identify a [new potential treatment](#) for acute myeloid leukemia (AML), which is currently incurable in 70% of those diagnosed with it. Having identified a protein called *Brd4* as a novel drug target in AML, they have also successfully tested a candidate drug molecule in pre-clinical animal models. Currently in pharmaceutical development, the drug is expected to enter human trials within two years. The study appeared in [Nature](#) on August 3, 2011.

**Optimized memory storage in fly brains**

By monitoring the activity of 100 neurons in a fruit fly's brain, a structure no bigger than a poppy seed, CSHL neuroscientist **Glenn Turner** is trying to understand how we forge associations between different sensory streams of information, for example, between odor and taste, to form a memory. His team's [latest study](#), which demonstrates how neuronal activity patterns in fly brain are optimized for memory storage, [sheds light](#) on how even the humble fly can distinguish between very similar odors.

**Chaperones keep communication lines open in plants**

In plants and all other living things, development "is all about communication," according to CSHL Professor **David Jackson**. His previous work showed how individual plant cells communicate with one other through microscopic channels called plasmodesmata. In a paper published in [Science](#) last week, his group [shows](#) how molecules called chaperonins assist signaling proteins in crossing these traffic channels. By doing so, the chaperonins help plants maintain their populations of growth-regulating stem cells.

**Annual Report Yearbook now online**

The CSHL 2010 Annual Report Yearbook is also now online. Download your copy today for a comprehensive look through the research advances made by all of the 48 laboratories at CSHL; the accomplishments of CSHL's diverse educational divisions including the DNA Learning Center, CSHL Press, and the Meetings and Courses program; and CSHL financials. Also within are memorials of CSHL Trustee **Charles E. Harris III** and **George W. Cutting, Jr.**, former president of the CSHL Association, which were penned, respectively, by CSHL's President Bruce Stillman and Dr. James D. Watson.

**CSHL cancer research benefits from summer events on LI**

[Swim Across America's](#) Sound to Cove swim, in which she was also a participant.

Long Island's walkers, swimmers and other fitness enthusiasts burned calories this summer for a great cause -- to raise funds for cancer research and provide a boost to CSHL researchers on the hunt for better tools to diagnose and treat cancer. Funds raised by [The Long Island 2 Day Walk](#) will go toward Assistant Professor **Mikala Egeblad's** work in identifying new therapeutic targets in breast cancer. Assistant Professor **Raffaella Sordella**, who is working to identify the basis of drug resistance in non-small cell lung cancer, will receive funds raised by

**Stay Connected**

Founded in 1890, Cold Spring Harbor Laboratory (CSHL) has shaped contemporary biomedical research and education with programs in cancer, neuroscience, plant biology and quantitative biology. CSHL is ranked number one in the world by Thomson Reuters for impact of its research in molecular biology and genetics. The Laboratory has been home to eight Nobel Prize winners. Today, CSHL's multidisciplinary scientific community is more than 400 scientists strong and its Meetings & Courses program hosts more than 12,000 scientists from around the world each year. Tens of thousands more benefit from the research, reviews, and ideas published in journals and books distributed internationally by CSHL Press. The Laboratory's education arm also includes a graduate school and programs for undergraduates as well as middle and high school students and teachers. CSHL is a private, not-for-profit institution on the north shore of Long Island.

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