

CSHL in the News

MIT Technology Review
[Single-Molecule Sequencing Gets a Crucial Fix](#)
 July 5, 2012

Genetic Engineering News
[Eradicating Errors in Third-Gen Sequencing for de Novo Genome Assembly](#)
 July 2, 2012

Forbes.com
[For A New DNA Sequencer, A Technical Fix May Have Come Too Late](#)
 July 1, 2012

Newsday
[CSH Lab fix targets genome technology](#)
 July 1, 2012

GenomeWeb
[Pfizer, CSHL to Collaborate on shRNA Library](#)
 June 21, 2012

Scientific American
[Head Start: Scientists Trace a Wiring Plan for Entire Mouse Brain](#)
 June 20, 2012

Gizmodo
[It Takes the Entire Internet to Map a Mouse's Brain](#)
 June 20, 2012

Newsday
[Will the lack of lab space squeeze out LI tech companies?](#)
 June 10, 2012

Upcoming Events

July 11
[Public Lecture: A World in One Cubic Foot - Portraits of Diversity \(Featuring National Geographic photographer, David Liittschwager\)](#)

July 14
[Science Walking Tour](#)

July 16
[Joni Gladowsky Breast Cancer Foundation Play for the Cure Golf Outing](#)

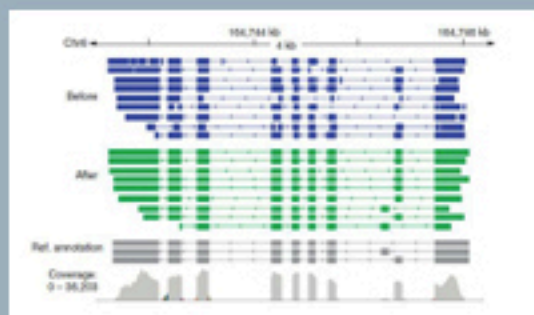
July 16
[Give Back Night @ Butera's Restaurant](#)

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3rd-Gen genome sequencing & RNAi libraries make biz, science waves

Two recent developments at the Laboratory have made waves in the worlds of both research and business. A team led by Assistant Professor **Mike Schatz** and including Professor **W. Richard McCombie** drew widespread notice for their algorithmic "fix" for so-called 3rd-gen genome sequencing. Published for the benefit of biologists everywhere, the software effectively eliminates the chief shortcoming of the *next* next-gen sequencing method, properly called single-molecule sequencing. In *Nature Biotechnology*, the team showed the versatility and power of 3rd-gen with "corrective lenses" applied, retaining long sequence read-lengths but reducing errors to one-tenth of one percent.

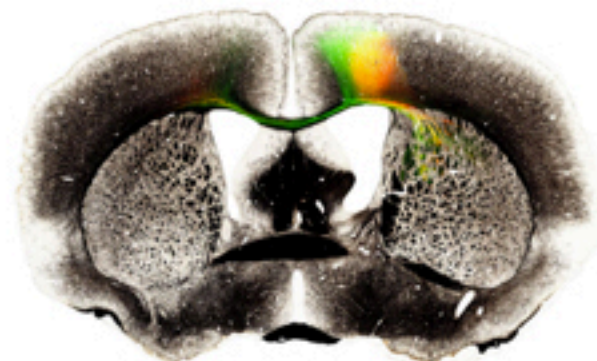


In separate news, CSHL and **Pfizer Inc.** announced a **collaboration** to develop a powerful 4th-gen RNA interference (RNAi) library, based on technology invented by Prof. and HHMI Investigator **Greg Hannon**.

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Major milestone reached in whole-brain circuit mapping project

Professor **Partha Mitra** and his team have published to the **web** the first installment of data from the 500 terabytes so far collected in their pathbreaking project to construct the first mouse whole-brain wiring diagram. Mitra, who has received strong support from the NIH and the Keck Foundation, reasons: to understand how the brain works – or fails to work in disease - it's vital to have the wiring diagram of the full circuit. Each sampled brain is represented in ~ 500 images, each showing an optical section through a 20 micron-thick tissue slice. A **multi-resolution viewer** permits us to journey



through each brain from front to back, following pathways taken through 3-D brain space by tracer-labeled neuronal pathways.

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Outgoing, incoming deans at the Watson School of Biological Sciences

In a bittersweet note to CSHL employees June 15, President Stillman **announced** that after completing her term of 5 years as Dean of the Watson School of Biological Sciences (WSBS) **Leemor Joshua-Tor** will step down on July 31. She will remain a Professor and HHMI Investigator at CSHL.

Stillman also announced that Professor **Alex Gann** will be appointed Lita Annenberg Hazen Dean of the Watson School starting January 1. Alex is currently Editorial Director at the CSHL Press. More details in the next *Harbor Transcript!*



A spectacular new teaching facility opens its doors

The newly completed **Alfred D. Hershey Building** was rededicated June 8 in a ceremony that highlighted the history and future of scientific research and education at CSHL. The 18,000-square-foot teaching and technical resource center,

named for the late Dr. Alfred Hershey, a Nobel laureate and CSHL



scientist, was made possible by a \$15 million grant provided by the Howard Hughes Medical Institute.

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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 360 scientists strong and its Meetings & Courses program hosts more than 12,500 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.