

## How do I apply?

Apply for a workshop online at: [www.dnalc.org](http://www.dnalc.org)

If you prefer to submit a paper application, you can download one from this site. Application deadlines are two weeks prior to the beginning of the workshop. Applications will be accepted as long as there are openings and will be reviewed continuously. Confirmations will be mailed/emailed as soon as possible.

Dolan DNA Learning Center  
Cold Spring Harbor Laboratory  
One Bungtown Road  
Cold Spring Harbor, NY 11724  
Email: [dnalcworkshops@csHL.edu](mailto:dnalcworkshops@csHL.edu)  
Web: [www.dnalc.org](http://www.dnalc.org)  
Phone: (516) 367-5170  
Fax: (516) 367-5182

**Dolan DNA Learning Center:** The DNALC is the world's first science center devoted entirely to public genetics education – with 20 years of expertise training educators current and engaging science. DNALC web sites are cutting-edge multimedia references and teaching tools.

**Cold Spring Harbor Laboratory:** CSHL is a renowned research facility and home to five Nobel laureates. CSHL ranked third in the world among molecular biology and genetics research institutions for the impact of papers published in 2002-06.

### Other DNALC Educator Opportunities:

For details visit our Internet site [www.dnalc.org](http://www.dnalc.org).

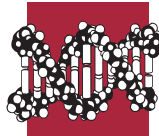
#### **Silencing Genomes**

This 5-day workshop on RNA interference (RNAi) brings college educators up-to-the-minute with this revolutionary discovery. In labs and computer work, participants learn all the steps needed to go from genomic sequence information to induce RNAi to silence individual genes in the roundworm *C. elegans*.

#### **NYC Teacher Professional Development at Harlem DNA Lab**

This program will enable New York City teachers to deliver hands-on, inquiry-based experiments in genetics and biotechnology. With funding from the Howard Hughes Medical Institute, 8<sup>th</sup> through 12<sup>th</sup> grade teachers are trained to implement lab activities to complement the NYC *Scope and Sequence*, Life Science, Living Environment, and AP Biology curricula.

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## Workshops for Biology, Psychology, and Health Educators

INSIDE  
CANCER

[www.insidecancer.org](http://www.insidecancer.org)

&

GENES  
to  
COGNITION  
online

[www.g2conline.org](http://www.g2conline.org)

Presented by the  
Dolan DNA Learning Center  
Cold Spring Harbor Laboratory

Funded by grants from the  
National Institutes of Health  
and the William and Flora  
Hewlett Foundation



**2009 Workshops:**

- May 31 **Bossier Parish Community College, Bossier, LA**
- June 6 **St. Louis Science Center, St. Louis, MO**
- June 10 **Tulsa Community College, Tulsa, OK\***
- June 20 **North Carolina A & T State University, Greensboro, NC**
- July 31 **Howard University, Washington, DC**
- August 08 **Madison Area Technical College, Madison, WI\***
- August 14 **Houston Community College Northwest, TX**
- August 29 **John Jay College, New York, NY\***
- September 26 **Alamance Community College, Graham, NC\***
- October 09 **Oxnard College, Oxnard, CA\***

One-day *Inside Cancer* Workshops introduce an innovative Internet site on cancer biology. Attendees will explore how to use authoritative content on cancer cell biology in health, general biology, and AP Biology classes. Teachers will learn to use *Teacher Center* to build and share lesson plans with a focus on syllabus-centered instruction. *Teacher Center* includes a database search tool for building multimedia presentations, a wiki-based lesson editor, and a matrix that aligns *Inside Cancer* content to educational standards.

*Inside Cancer* can help students envision the future of medicine while providing striking visual representations of basic concepts at the heart of any biology and health syllabus. Video interviews feature basic cancer researchers who seek a deep understanding of the cellular and molecular basis of life – DNA replication, transcription, and translation; signal transduction, and programmed cell death. Furthermore, knowing the nature of mutations

induced by smoking, sunlight, and food contaminants can help students understand that lifestyle choices are major determinants of future cancer risk.

**Is this workshop for me?**

The free workshop is designed for high school biology and health teachers, although other educators will be accepted when space is available. It requires some computer skills. Participants should have a sincere desire to implement instruction and to share their experiences with other educators. Fellowships will be available for participants interested in disseminating *Inside Cancer*. Instruction, workshop materials, lunches, and coffee breaks, are funded by Science Education Partnership Award Program from the National Center for Research Resources (NCRR), a part of National Institutes of Health.

\*Both *Inside Cancer* and *G2C Online* Workshops are offered.

**2009 Workshops:**

- June 11-12 **Tulsa Community College, Tulsa, OK\***  
(1.5 - DAY WORKSHOP)
- August 07 **Madison Area Technical College, Madison, WI\***
- August 28 **John Jay College, New York, NY\***
- September 25 **Alamance Community College, Graham, NC\***
- October 10 **Oxnard College, Oxnard, CA\***



The 1-day *Genes to Cognition (G2C) Online* Workshop introduces modern neuroscience research to educators at the high school and college levels. *G2C Online* is a unique Internet site incorporating up-to-date neuroscience research, multimedia items, and interactive experiments. From molecular signals to neural circuits, to anatomical structures of the brain, participants explore thinking and disorders of thinking at different levels of complexity. The site offers unique learning aids that allow students to track their paths through the site and to build concept maps using information they have encountered.

The name *Genes to Cognition* derives from the understanding that neuroscience research exists at multiple (interacting) levels of analysis – from the genetic to the behavioral. Cognitive disorders such as autism and schizophrenia can only be properly understood by recognizing that these disorders are not the result of abnormalities in genes, chemicals, brain structures, or the

environment. Rather, they are the product of interactions between these different systems. This understanding is reflected in the design of the site, which is built around a network of media items that stress the interrelatedness of different approaches to neuroscience. This highly innovative site provides an attractive and stimulating environment for teaching biology and psychology curricula.

**Is this workshop for me?**

The free workshop targets college educators and exceptional high school educators of biology and psychology. Participants should have a sincere desire to integrate neuroscience content into classroom instruction and to share their experiences with other educators. Instruction, workshop materials, lunches, and coffee breaks, are funded by a grant from the William and Flora Hewlett Foundation.