

[Current Issue Home](#)

NEWS

[Featured Article: Pancreatic Cancer Report Urges Changes in Clinical Trials](#)

[Even With Very Small Breast Tumors, Studies Find HER2 Status Matters](#)

[Risk of Contralateral Breast Cancer Estimated for BRCA Families](#)

[Lower Total Blood Cholesterol Levels Are Not Linked to Higher Cancer Risk](#)

[Tests for Catching Cervical Precancers Show Equivalent Accuracy](#)

[Nicotine Patch and Lozenge Combination Helps Smokers Quit for Longer](#)

[Personalized Phone Counseling Helps Teens Quit Smoking](#)

COMMENTARY

[Guest Director's Update: Entering a New Era in Tobacco Control Research](#)

IN DEPTH

[How Gene Fusions May Occur in Prostate Cancer](#)

[Profiles in Cancer Research: Dr. Marcia R. Cruz-Correa](#)

[Featured Clinical Trial: Combining Chemotherapy and a PARP Inhibitor for Advanced Solid Tumors](#)

[Community Update: Local Partners Study Mobile Support for DC Tobacco Quitline](#)

UPDATES

[Cancer.gov Update](#)

[Notes](#)

[About the Bulletin](#)

[Subscribe Now!](#)

Give Us Feedback

Tell us what you think about the Bulletin or what you want to see in the Bulletin.

[GO](#)

Page Options

[Print This Page](#)

[Print This Document](#)

[View Entire Document](#)

[Email This Document](#)

Notes

NCI Launches Physical Sciences-Oncology Centers



On October 26, NCI awarded institutional grants establishing 12 Physical Science-Oncology Centers (PS-OC) as part of its Physical Sciences in Oncology initiative to better understand the laws and

principles that shape and govern the emergence and behavior of cancer. The goal of the 5-year initiative is to engage transdisciplinary scientific teams from physics, mathematics, chemistry, and engineering to examine new, nontraditional approaches to cancer research.

Researchers will explore the physical laws and principles of cancer; evolution and evolutionary theory of cancer; information coding, decoding, transfer, and translation in cancer; and cancer's complexity. These ongoing efforts will enable experts to explore innovative approaches to better understand, diagnose, treat, and control cancer.

The PS-OCs are based at:

- Arizona State University
- Cornell University
- H. Lee Moffitt Cancer Center & Research Institute
- Johns Hopkins University
- Massachusetts Institute of Technology
- Memorial Sloan-Kettering Cancer Center
- Northwestern University
- Princeton University
- Scripps Research Institute
- University of California, Berkeley
- University of Southern California
- University of Texas Health Science Center at Houston



A U.S. map showing the location of the 12 newly established Physical Sciences-Oncology Centers

Each of the PS-OCs has convened groups of experts that will support a transdisciplinary environment and promote research that: originates and tests novel, non-traditional physical sciences-based approaches to understand and control cancer; generates independent sets of physical measurements and integrates them with existing knowledge of cancer; and develops and evaluates approaches from the physical sciences to provide a comprehensive and dynamic picture of cancer.

Through coordinated development and testing of these approaches to studying cancer processes, the PS-OCs are expected to generate new bodies of knowledge in order to identify and define critical aspects of physics, chemistry, and engineering that operate at all levels in cancer processes.

"I truly believe the initiative's objective of applying physical sciences and engineering perspectives and principles to cancer will lead to paradigm-shifting science toward understanding and, ultimately, treating the disease," said Dr. Larry Nagahara, NCI PS-OC program director. "I'm very excited about the team of world-class researchers assembled in these centers and the fact that they will be working together as a collaborative network."

Learn more about the PS-OCs [online](#).

[Bookmark & Share](#)

Spanish Clinical Trials Promotional Tools Available from NCI



NCI recently made available Spanish-language promotional posters and pins to increase awareness about clinical trials. The tools are intended to spark discussions with cancer patients who may be interested in enrolling in a trial. The posters and pins introduce patients to the concept of clinical trials, complement education and recruitment efforts, and serve as conversation starters to discuss trials in a general context before exploring specific trials with patients. The pins can also be worn by patients participating in clinical trials or

their family members and friends—individuals who can help increase awareness.

For more information about the posters and pins, call NCI's [Cancer Information Service](#) toll free at [1-800-4-CANCER](tel:1-800-4-CANCER) or order them online by clicking: <https://pubs.cancer.gov/ncipl>.

Meet NCI Experts at APHA

Learn about NCI's programs and Web sites by visiting booth #1113 in the exhibit hall during the American Public Health Association Annual Meeting in Philadelphia, PA. NCI experts will be available to talk about a wide range of topics. See the schedule below.

Sunday, November 8

2:00 p.m.

NCI Cancer Bulletin

Julie Cheh, Office of Communications and Education

3:00 p.m.

NCI Research Funding Opportunities in Cancer Complementary and Alternative Medicine
Isis Mikhail, Office of Cancer Complementary and Alternative Medicine



NCI exhibit booth

Monday, November 9

10:00 a.m.

Public Health Genomics at NCI
Sheri Schully, Division of Cancer Control and Population Sciences

11:00 a.m.

Designing for Dissemination
Michael Sanchez, Division of Cancer Control and Population Sciences

12:00 p.m.

Results and Opportunities in Energy Balance Research
David Berrigan, Division of Cancer Control and Population Sciences

1:00 p.m.

Applied Cancer Screening
Erica Breslau, Division of Cancer Control and Population Sciences

3:00 p.m.

Meet & Greet with Office of Communications and Education Director
Lenora Johnson

Tuesday, November 10

- 10:00 a.m.
State Cancer Legislative Database
Linnea Laestadius, State Cancer Legislative Database Program
- 11:00 a.m.
Diversity Training
Carmen Moten, Center to Reduce Cancer Health Disparities
- 12:00 p.m.
New Media at NCI
Jeff Swarz, Office of Communications and Education
- 1:00 p.m.
Health Communications Internship Program
Introduction to Cancer Research Careers Program
Shannon Connolly, Office of Workforce Development
- 2:00 p.m.
NCI Cancer Bulletin
Julie Cheh, Office of Communications and Education
- 3:00 p.m.
State Cancer Legislative Database
Kerry McGowan Lowrey, State Cancer Legislative Database Program

Wednesday, November 11

- 10:00 a.m.
Cancer Prevention Fellowship Program
David E. Nelson, Office of the Director
- 11:00 a.m.
Disparities Research
Maria Canto, Center to Reduce Cancer Health Disparities

[< Previous Section](#)

[We Can Answer Your Questions](#)

[1-800-4-CANCER](#)

[LiveHelp](#)

[Online Chat](#)

[NCI Home](#) | [Contact Us](#) | [Policies](#) | [Accessibility](#) | [Viewing Files](#) | [FOIA](#) | [Site Help](#) | [Site Map](#)

Follow Us: [!\[\]\(870f5d5e9c0d57485634be3ecf52f3ca_img.jpg\) Twitter](#) [!\[\]\(66b14d8ba452f6f18b47935355b6120a_img.jpg\) YouTube](#) [!\[\]\(bcb9bfd69e5b89da3d817cb72bfcfd1e_img.jpg\) Facebook](#) [!\[\]\(0eb6abbd70294475dc7cb6513507500d_img.jpg\) RSS](#) Other Versions: [!\[\]\(950a63716dc9b13d42fd48df07c70375_img.jpg\) Mobile](#) | [Español](#)

[U.S. Department of Health and Human Services](#) | [National Institutes of Health](#) | [National Cancer Institute](#) | [USA.gov](#)

NIH...Turning Discovery Into Health®