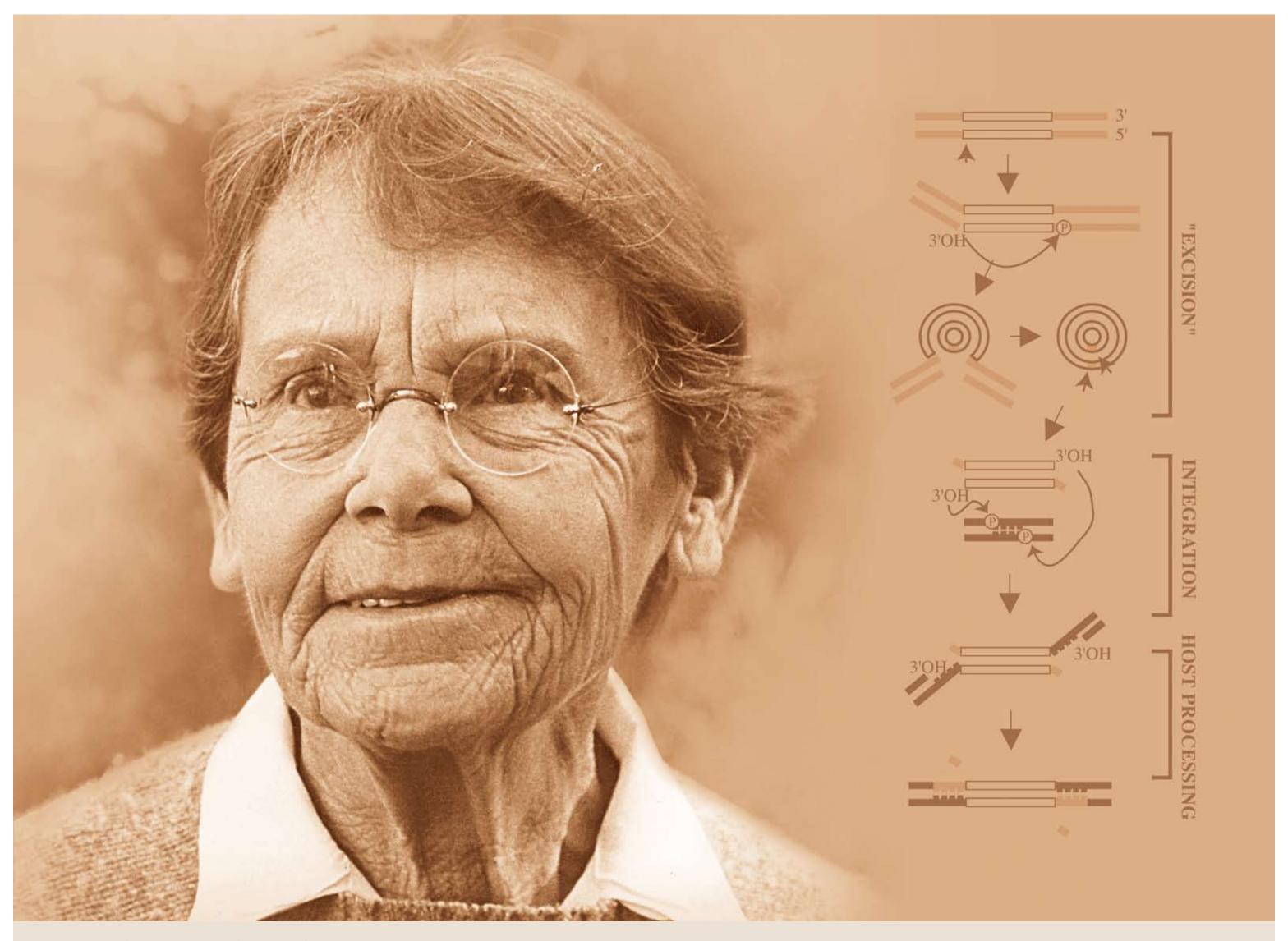


2008

WOMENIN SCIENCE

Walking in the footsteps of scientific pioneers.

The Women in Science series spotlights pioneering women who have made significant contributions in the sciences—often shattering social barriers and prejudices in the process. Our hope is that profiling the achievements of these determined researchers will help inspire the next generation of women in science.



Barbara McClintock

American cytogeneticist and discoverer of genetic transposition

SHE DISCOVERED THE SECRETS OF LIFE IN A KERNEL OF CORN.

In the late 1920s, a young Ph.D. named Barbara McClintock wondered how chromosomes in corn change during reproduction. That simple question launched her groundbreaking work in cytogenetics, leading to discoveries that helped redefine our understanding of how genes work. Dr. McClintock produced breakthrough science that revealed the secrets of many fundamental genetic mechanisms, including how chromosomes express or repress genetic information. In 1983, Dr. McClintock was awarded the Nobel Prize for her discovery of genetic transposition.

2008

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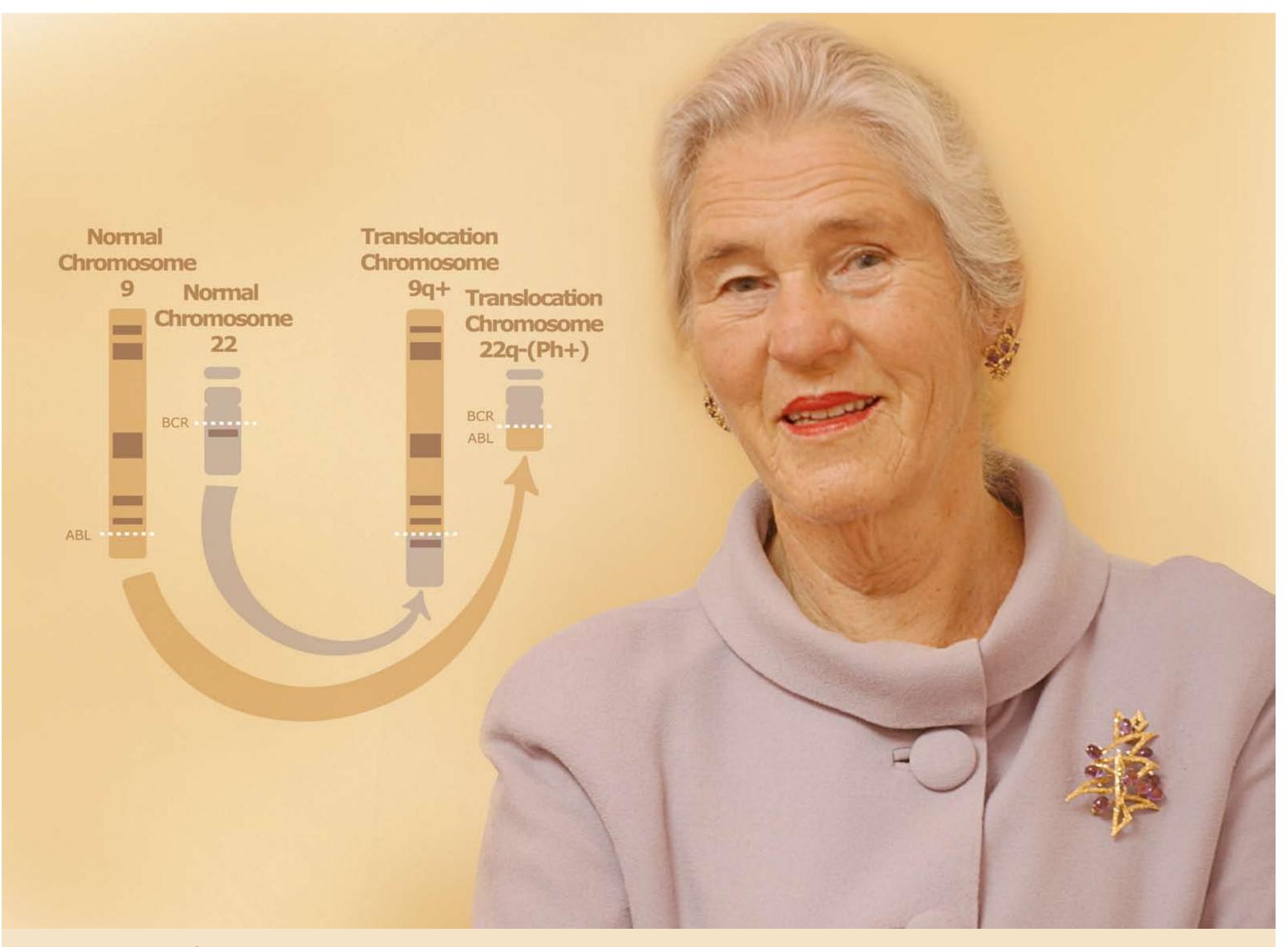
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Jan 1	New Year's Day
Jan 21	Martin Luther King Day
Feb 14	Valentine's Day
Feb 18	Washington's Birthday





Janet Rowley

American geneticist and first scientist to identify a chromosomal translocation as the cause of leukemia and other cancers

SHE CHANGED THE WAY WE LOOK AT CANCER.

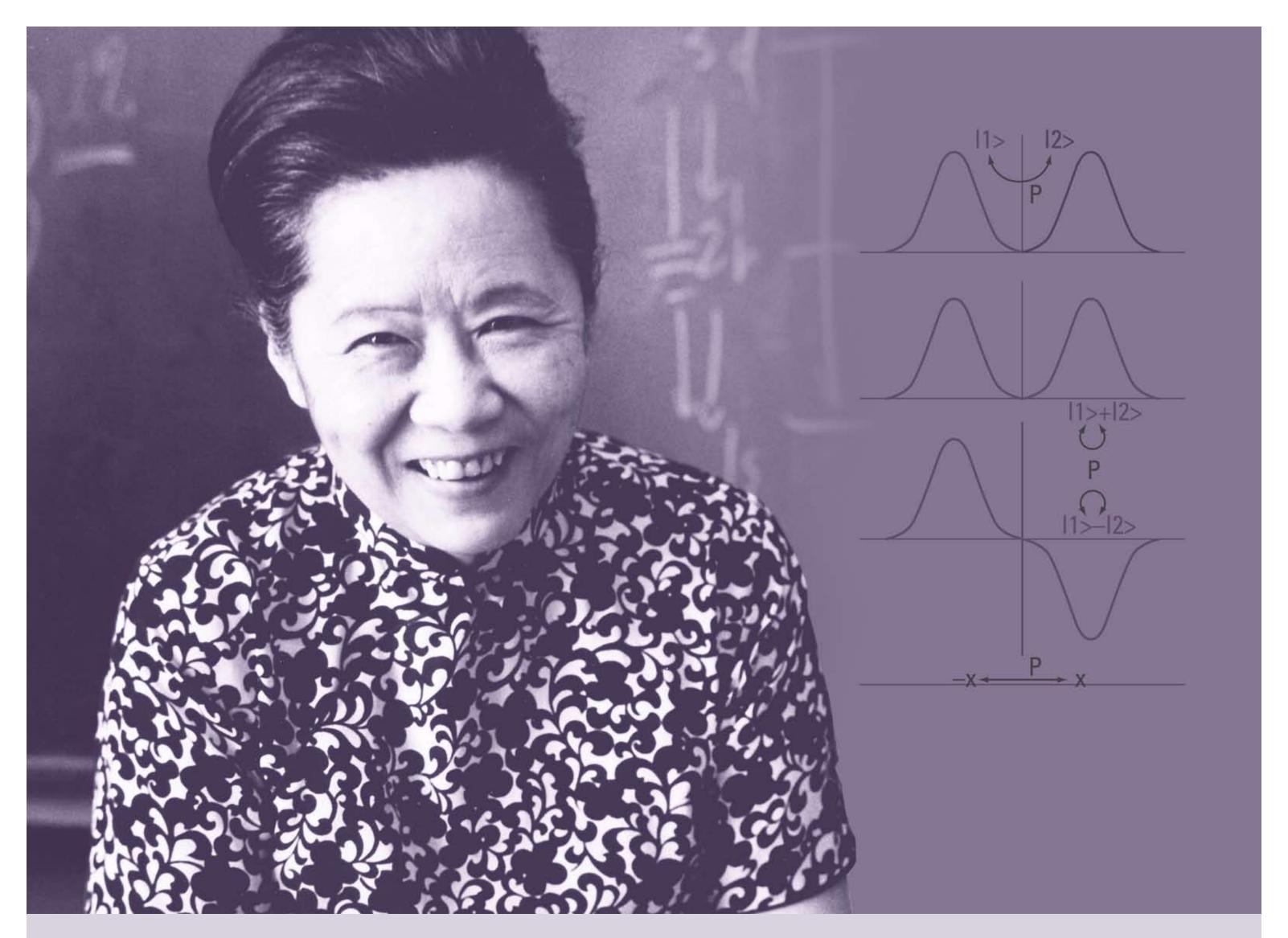
In the 1970s, Dr. Janet Rowley changed the conventional view of cancer with a surprising discovery. She found that a particular chromosome abnormality, called a translocation, played a leading role in causing leukemia—and that different recurring translocations are uniquely associated with different cancers. Dr. Rowley's work transformed our understanding of the genetic causes of some cancers and led to promising, targeted cancer therapies. The recipient of numerous prestigious awards, Dr. Rowley continues her research to this day.

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Mar 17	St. Patrick's Day
Mar 20	Vernal Equinox
Mar 23	Easter Sunday
Apr 5	Janet Rowley is born in New York, NY





Chien-Shiung Wu

Chinese-born American physicist disproved the law of conservation of parity

SHE PROVED HERSELF BY DISPROVING A LAW OF PHYSICS.

As an experimental physicist at the dawn of the nuclear age, Dr. Chien-Shiung Wu helped rewrite nuclear physics with her groundbreaking research into beta decay. In 1956, Dr. Wu proved that identical beta particles do not always act alike, disproving an accepted "law" of physics. Her research helped earn her colleagues a Nobel Prize and earned Dr. Wu the title of "First Lady of Physics."

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May 5	Cinco de Mayo
May 11	Mother's Day
May 13	Chien-Shiung Wu is born in Liu Ho, China, 1912
May 14	Mina Bissell is born in Tehran, Iran
May 26	Memorial Day
Jun 15	Father's Day
Jun 16	Barbara McClintock is born in Hartford, CT, 1902
Jun 20	Summer Solstice





Nancy Wexler

American neuropsychologist, contributed to the identification of the Huntington's disease gene

SHE TURNED PERSONAL LOSS INTO GENETIC DISCOVERY.

For Dr. Nancy Wexler, researching Huntington's disease is a personal mission: her mother died from this hereditary, progressive disease and she, herself, has a 50% chance of inheriting it as well. Dr. Wexler's celebrated research in Venezuela and around the world led to the discovery of the gene for Huntington's disease and to the development of a breakthrough test which makes it possible for individuals to discover if they inherited the gene which causes the disease. In addition to having a professorship at Columbia University, Dr. Wexler is President of the Hereditary Disease Foundation, an organization founded by her father, Milton Wexler, and dedicated to finding treatments and a cure for Huntington's disease.

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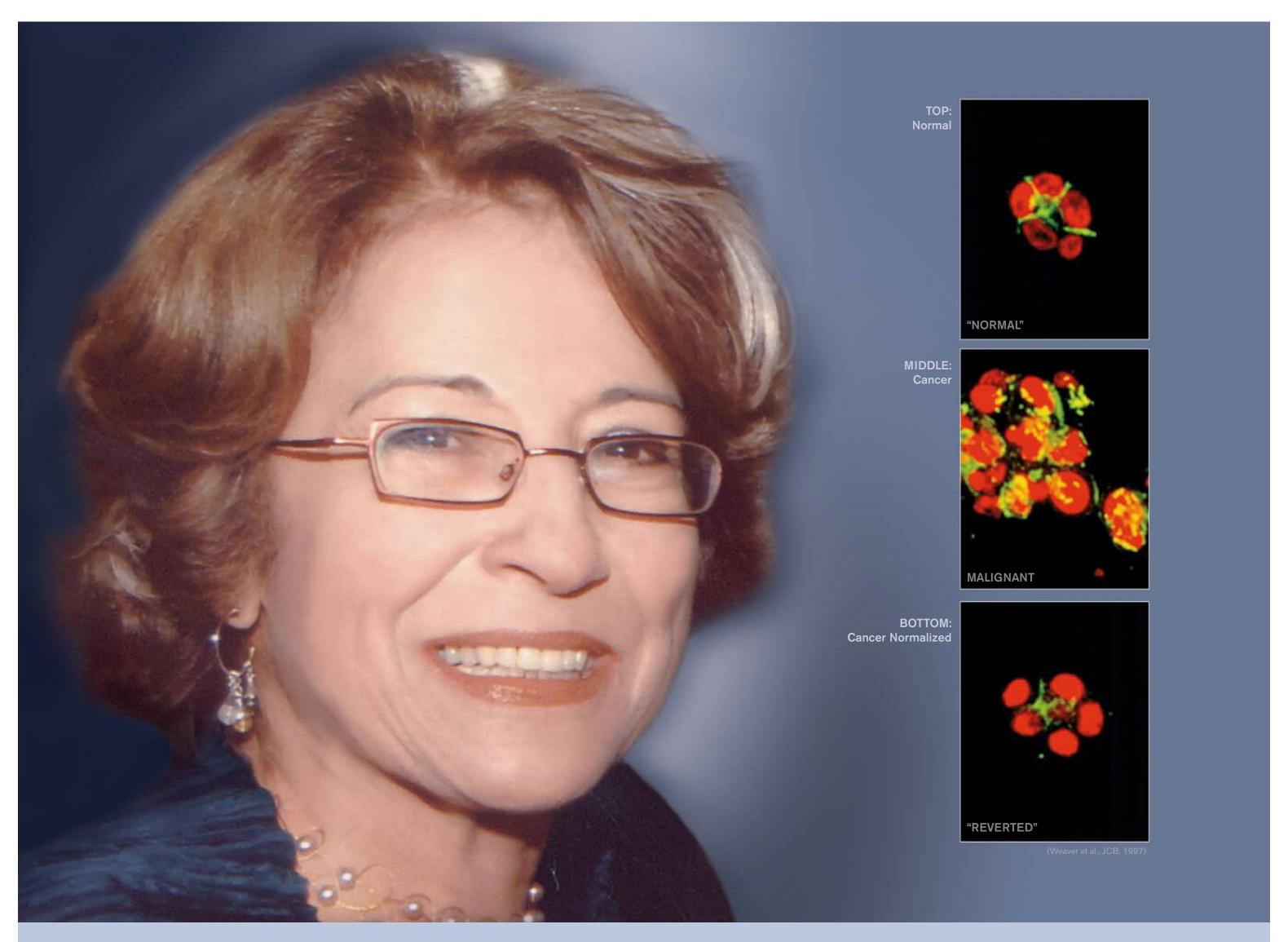
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Jul 4	Independence Day
Jul 19	Nancy Wexler is born in Washington, D.C.





Mina Bissell

Iranian-born American cell and cancer biologist and a world leader in gene regulation in 3-D

SHE TOOK CANCER BIOLOGY TO THREE DIMENSIONS.

Researchers have typically studied cancer by growing cells in tissue culture plastic (2-D). Dr. Mina Bissell took a different approach. Her pioneering work explores how the physical and biochemical environment surrounding living tissues, called the extracellular matrix (ECM), regulates architecture and function in normal and cancerous cells, especially in breast cancer. Recipient of many honorary doctorates and awards, including the 2007 Pezcoller Foundation-AACR International Award for Cancer Research, Dr. Bissell is equally proud of her role as a parent and grandparent.

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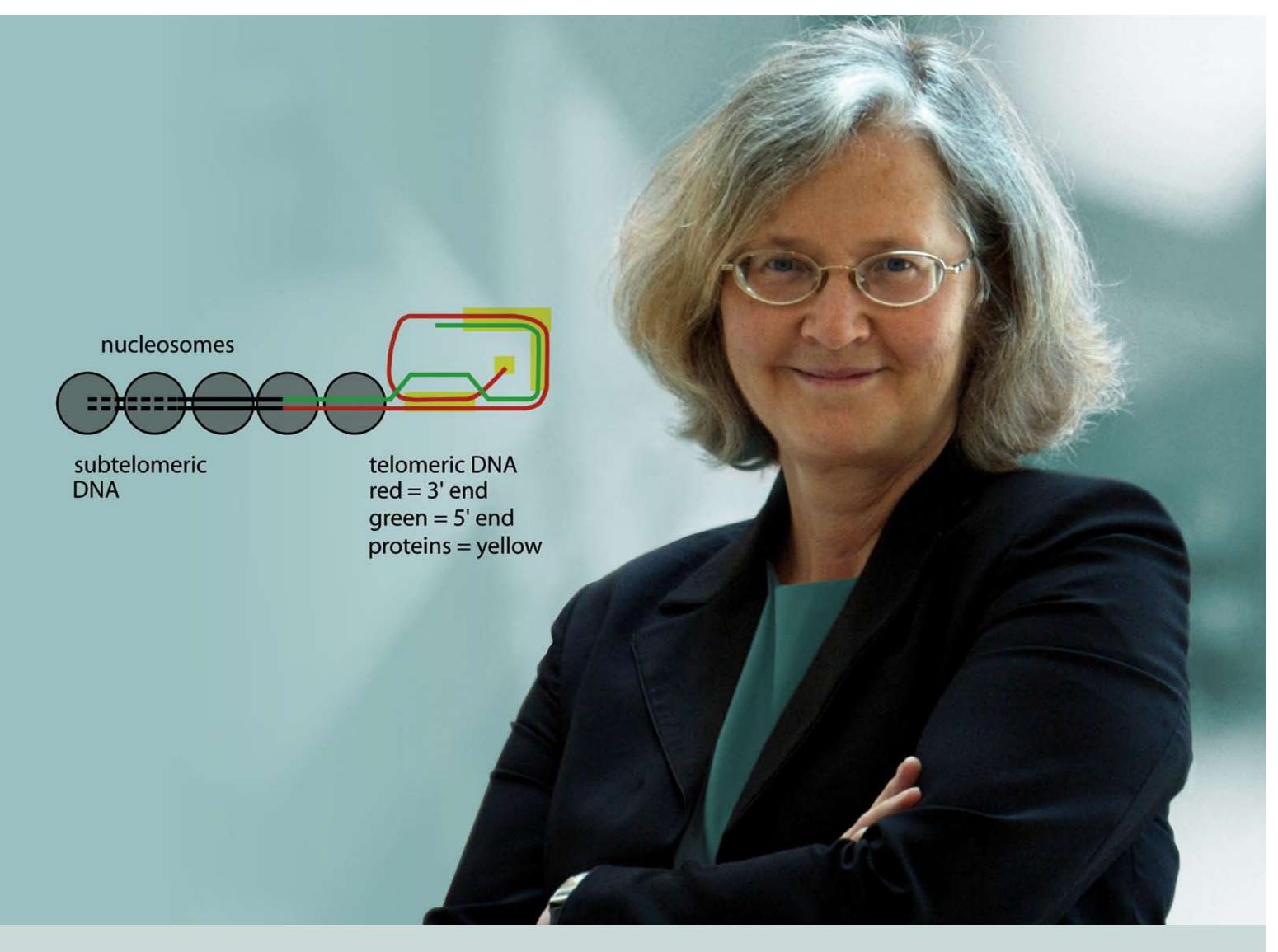
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Sept 1	Labor Day
Sept 22	Autumnal Equinox
Oct 13	Columbus Day
Oct 31	Halloween





Elizabeth Blackburn

Australian-born American biochemist and discoverer of the ribonucleoprotein enzyme, telomerase

24 25 26 27 28

SHE DISCOVERED A KEY TO AGING INSIDE A CELL.

Exploring how cell functions affect aging and disease is a passion for Dr. Elizabeth Blackburn. Her innovative research on telomeres, protective DNA-protein complexes at the edge of chromosomes, and telomerase, the enzyme that helps restore telomeres, expanded understanding of the role of stress and other lifestyle factors on aging and health. In 2007, Dr. Blackburn was named one of the 100 Most Influential People in The World by Time Magazine.

2008

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Nov 1	All Saints Day
Nov 11	Veterans Day
Nov 26	Elizabeth Blackburn is born in Hobart, Tasmania
Nov 27	Thanksgiving Day
Dec 21	Winter solstice
Dec 22	Hanukkah (Chanukah)
Dec 25	Christmas Day
Dec 31	New Year's Eve

