FOR WOMEN IN SCIENCE

UNESCO United Nations Educational, Scientific and Cultural Organization

L'ORÉAL FONDATION D'ENTREPRISE

Paris, February 2012

We are pleased to launch the Call for Nominations for the 2013 L'ORÉAL-UNESCO Awards For Women in Science dedicated to the Physical Sciences.

Dear Professor,

You are invited to submit candidates for the 2013 L'ORÉAL-UNESCO Awards in Physical Sciences. You can propose outstanding women scientists from any continent.

The five US$100,000 Awards will be presented in March 2013 at UNESCO Headquarters in Paris, France to five women scientists who have made an outstanding contribution to scientific advancement.

You will find enclosed The Call for Nominations describing the procedures, the official nomination form (one per geographic region), and a brochure of the Award Laureates from 1998 through 2011.

THE DEADLINE FOR SUBMITTING NOMINATIONS IS MAY 30th 2012

The L'ORÉAL-UNESCO Awards Jury in Physical Sciences is presided by Professor Ahmed Zewail, Nobel Prize in Chemistry 1999, in the presence of Professor Christian de Duve, Nobel Prize in Medicine 1974 and Founding President of the Awards. In 2011, the Jury designated the following Laureates in Physical Sciences:

Professor Faiza Al-Kharafi (Kuwait) for AFRICA & the ARAB STATES

Professor Vivian Wing-Wah Yam (Hong Kong) for ASIA-PACIFIC

Professor Anne L'Huillier (Sweden) for EUROPE

Professor Silvia Torres-Peimbert (Mexico) for LATIN AMERICA

Professor Jillian Banfield (USA) for NORTH AMERICA

Since its inception in 1998, the For Women in Science partnership expands each year. To date, the L'ORÉAL-UNESCO Awards have distinguished 72 eminent women scientists at the height of their career and the International Fellowships have supported 180 promising young women scientists to pursue doctoral and postdoctoral research projects. In addition, a network of National and Regional Fellowship programs at the doctoral level, now in 64 countries with new programs launching each year, has encouraged over 1200 young women to continue their scientific research within their country of origin.

We thank you for your active participation in ensuring that the best women in research from each continent are recognized and rewarded for their scientific excellence.

Yours Sincerely,

Sonia BAHRI
(for UNESCO)

Jennifer CAMPBELL
(for the L'ORÉAL Corporate Foundation)

Executive Secretariat
L'ORÉAL-UNESCO Awards

FOR WOMEN IN SCIENCE

United Nations
Educational, Scientific and
Cultural Organization

L'ORÉAL
FONDATION
D'ENTREPRISE

THE L'ORÉAL - UNESCO AWARDS
1998 - 2011





THE L'OREAL-UNESCO AWARDS 1998-2011

The world needs science...Science needs Women.

Launched in 1998 by L'ORÉAL and UNESCO, the "For Women in Science" Award was the first international award devoted to women in science. Today it is one element of a broad program with an international focus on encouraging scientific vocations and recognizing the accomplishments of female researchers from every continent.

A UNIQUE PARTNERSHIP FOR A PIONEERING PROGRAM

- **Consecrating excellence through the L'ORÉAL-UNESCO Awards,** the founding act of the program. These prestigious annual distinctions awarded to five leading women researchers, one per continent, identify exceptional women as role models for the generations to come.

- **Encouraging talent through:**
  - **the UNESCO-L'ORÉAL International Fellowships,** granted annually since 2000 to 15 promising young women scientists, permit them to enhance their expertise in renowned institutions around the world.
  - **the L'Oréal National and Regional Fellowships with the support of the UNESCO National Commissions,** enable young women at the doctoral level to pursue scientific research in their home countries.

Since 1998, 72 L'ORÉAL-UNESCO Award Laureates have been recognized for careers of scientific excellence and 180 International Fellows have been encouraged to pursue their scientific vocations. A program of National and Regional Fellowships, already in place in 64 countries, has up to now permitted more than 1040 young women to continue their research.

© Carole Bellaiche

"For L'ORÉAL and its foundation, the commitment alongside UNESCO in the For Women in Science partnership is a concrete expression of our firm intention to promote women in scientific research and to participate in the creation of new careers throughout the world."

SIR LINDSAY OWEN-JONES
Chairman, Foundation d'entreprise L'ORÉAL

© UNESCO-Michel Ravassard

"The partnership with L'ORÉAL is an exemplary alliance: it not only recognizes outstanding women in all regions who have devoted their lives to scientific research but more broadly, contributes to finding answers to some of the world's most pressing global challenges, from health to the environment."

IRINA BOKOVA
Director-General, UNESCO

L'ORÉAL - UNESCO AWARDS

CONSECRATING EXCELLENCE

Over two thousand eminent members of the scientific community propose candidates for the Awards. Two juries, one in the Life Sciences, the other in the Physical Sciences, meet in alternating years to select the Laureates from these fields of research.

Each year, one Laureate is named from each of the five continents: Africa & Arab States, Asia-Pacific, Europe, Latin America and North America. With the 2011 Awards, 72 women from 30 countries, whose exceptional and exemplary careers in science have opened up new and sometimes revolutionary ways of improving human well-being, will have been recognized. Each Laureate receives US $100,000.

The 2011 international jury in the Physical Sciences is a group of 16 prominent scientists, which was presided by Professor Ahmed Zewail, Nobel Prize in Chemistry 1999.

Irina BOKOVA, Director-General of UNESCO, is Honorary President of the juries. Christian de DUVE, Nobel Prize in Medicine 1974, is Founding President of the Awards.

"By allocating an Award to each continent, it is possible to reward women working under extremely varying conditions. We have been given a magnificent panorama of science at the service of humanity."

Professor CHRISTIAN DE DUVE
Nobel Prize in Medicine 1974 and Founding President of the Awards

INTERNATIONAL JURY 2011, PHYSICAL SCIENCES

Jury and Laureate photos: ©Christophe Guibbaud-Abacapress for L'Oréal Foundation

From left to right, 1st row:
Pr. Julia KING, Aston University, Birmingham, United Kingdom.
Pr. Margaret BRIMBLE (Laureate 2007), University of Auckland, New Zealand.
Pr. Beatriz BARBUY (Laureate 2009), University of São Paulo, Brazil.
Pr. Jehane RAGAI, The American University in Cairo, Egypt.
2nd row:
Pr. Christian de DUVE, Nobel Prize in Medicine 1974, Founding President, L'ORÉAL-UNESCO Awards, Institute de Duve, Belgium.
Pr. A. ROBLEDO, National Autonomous University of Mexico (UNAM), Mexico City, Mexico.
Pr. Mitchell WINNIK, University of Toronto, Canada.
Pr. Sylvio CANUTO, University of São Paulo, Brazil.
Pr. Gabriel OGUNMOLA (for UNESCO) Institute of Genetic Chemistry & Laboratory of Medicine, Ibadan, Nigeria.
Pr. Ahmed ZEWAIL, Nobel Prize in Chemistry 1999, Jury President, California Institute of Technology, USA.
3nd row:
Dr. Laurent GILBERT (for L'Oréal), International Development of Advanced Research, L'Oréal, France.
Pr. H. Eugene STANLEY, University of Boston, USA
Pr. Malik MAAZA, iThemba LABS-National Research Foundation of South Africa.
Pr. Majed CHERGUI, Swiss Federal Institute of Technology, Lausanne.
Pr. Christian AMATORE, Ecole Nomale Supérieure, Paris, France.
Pr. Chun-LI BAI, Chinese Academy of Sciences, Beijing.

L'ORÉAL - UNESCO AWARDS 2011

PHYSICAL SCIENCES

2011 LAUREATE FOR AFRICA & ARAB STATES

Professor Fayzah AL-KHARAFI
Professor, Chemistry Department
Kuwait University
KUWAIT

"For her notable contributions to electrochemistry with particular emphasis on corrosion and catalysis."

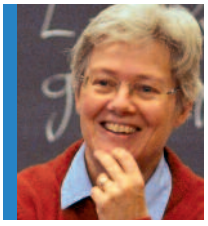
ELECTROCHEMISTRY: Faiza Al-Kharafi is an expert on corrosion and catalysis and a prominent scientific figure in Kuwait. Her research focuses on the mechanisms underlying the corrosion of metals and ways to inhibit it. Fighting corrosion is essential for the energy sector in Kuwait, with impacts on water treatment and the oil industry. Al-Kharafi's team characterized the mechanisms of action for a new class of catalysts based on the element molybdenum, showing how they could increase the octane number of gasoline without producing benzene. This work may revolutionize the process of oil refinement, making it less expensive and safer for people and the environment. She was the first woman to head a major university in the Arab world, serving as President of Kuwait University from 1993-2002.

2011 LAUREATE FOR ASIA/PACIFIC

Professor Vivian Wing-Wah YAM
Professor, Department of Chemistry
University of Hong Kong
CHINA

"For her pioneering contributions in the molecular design of photo-active materials that are particularly relevant to solar energy conversion."

CHEMISTRY AND ENERGY: Vivian Yam considers energy to be one of the most pressing issues facing the planet today. Her research explores efficient methods to capture and store solar energy. She studies photoactive materials, which absorb light energy in their chemical bonds and convert it to electrical energy that can be used to power electronic devices. One of her key focuses is the design of versatile photoactive materials called organometallics, which are large organic molecules surrounding a metal core. Her techniques for varying and characterizing the properties of organometallic complexes have led to the discovery of several materials with unique light absorption properties that may prove useful for harnessing solar energy, in addition to a host of other potential applications.



2011 LAUREATE FOR EUROPE

Professor Anne L'HUILLIER
Professor, Department of Physics
Lund University
SWEDEN

"For her pioneering experimental and theoretical contributions to harmonic light generation as a base technology for attosecond science."

ATTOSECOND PHYSICS: Most of the ultrafast molecular events that form the basis for natural phenomena like photosynthesis used to be invisible to experimental science because we were not able to capture events on such short timescales. Anne L'Huillier's research has contributed to the development of an ultrafast camera to record the movement of electrons in attoseconds (a billionth of a billionth of a second). A brave new world of attosecond physics has emerged, in which we can begin to understand the ultrafast processes that form the foundation for observations of the natural world. Technologies based on attosecond pulses could allow us to observe the movement of electrons in atoms and molecules in real-time, enhancing our basic understanding of the interaction of light and matter.

2011 LAUREATE FOR LATIN AMERICA

Professor Silvia TORRES-PEIMBERT

Professor Emeritus, Department of Astronomy
National University of Mexico

MEXICO

"For her fundamental contribution to the studies of nebulae that have led to a better understanding of the chemical evolution of galaxies and the universe."

ASTROPHYSICS: Silvia Torres-Peimbert has contributed valuable insights into the origins of stars and the evolution of the universe. She has devoted her career to decoding nebulae, which are the birthplaces and graveyards of stars. The major events in the life a star take place in tenuous clouds of hydrogen, helium and other gases, as well as dust – these are nebulae. Torres-Peimbert has investigated the light spectra of nebulae from several galaxies. In 1977, she published the first complete analysis of the composition of the famous Orion Nebula, which showed that it is chemically very similar to our own Sun. Her work has helped scientists understand the conditions of the universe many billions of years ago and has provided new insight into the stellar aging process.

2011 LAUREATE FOR NORTH AMERICA

Professor Jillian BANFIELD

Professor, Materials Science Dept. and Earth and Planetary Science Department
University of California, Berkeley

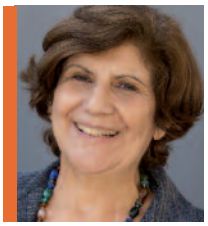
USA

"For pioneering achievements in environmental science integrating chemical, biological, mineralogical, and proteogenomic influences."

GEOMICROBIOLOGY: Jillian Banfield's research takes place at the interface between the physical and biological worlds – focusing on minerals and microscopic forms of life. She studies how microorganisms shape, and are shaped by, inter-organism interactions and the geochemistry of their surroundings. She explores the complex and multifaceted interconnectivity between the physical and biological components of the Earth's ecosystem. Their exchanges may take many forms: microorganisms absorb and release nutrients, construct unique materials from molecular building blocks, alter the pH and salinity of solutions, and influence large-scale geological processes like erosion. Her research has, for example, improved scientists' understanding of how life survives even under extreme conditions.

L'ORÉAL - UNESCO AWARDS 2010

LIFE SCIENCES



2010 LAUREATE FOR AFRICA & ARAB STATES

Professor Rashika EL RIDI
Professor, Department of Zoology
Faculty of Science, Cairo University
EGYPT

"For paving the way towards the development of a vaccine against the tropical parasitic disease bilharzia, which affects over 200 million people."

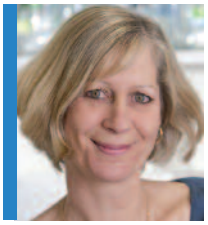
IMMUNOLOGY: Rashika El Ridi is an expert in immunology, especially reptilian immunity. Her research has been directed at understanding the immunobiology of snail fever, or schistosomiasis (also known as bilharzia) in order to develop a vaccine to prevent this parasitic disease, which especially affects children. The main route of infection is contact with infested water through agriculture or fishing. Endemic in 74 developing countries, it is the second most socio-economically devastating disease in the world after malaria. Rashika El Ridi has devoted much of her career to elucidating the biology of this disease and the ways in which the human immune response can be manipulated to create a vaccine.

2010 LAUREATE FOR ASIA/PACIFIC

Professor Lourdes J. CRUZ
Professor, Marine Science Institute,
University of the Philippines Diliman
Quezon City
PHILIPPINES

"For the discovery of conotoxins produced by certain marine snails that can serve as painkillers and pharmaceutical probes to study brain function."

MARINE TOXICOLOGY: Underneath their beautiful shells, cone snails harbor highly poisonous venom. The peptides derived from the venom of the geography cone act on nerves and muscles. Lourdes Cruz, a marine toxicologist, was a pioneer in isolating and characterizing the first conopeptides. These have led to the development of many important applications both in research, as tools to investigate the activity of the human brain, and in medicine, to develop drugs to treat pain and neurological disorders. Lourdes Cruz is also very active in rural areas of the Philippines, where she mobilizes science to develop sustainable means of livelihood for indigenous tribes.

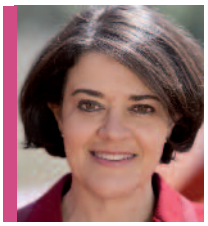


2010 LAUREATE FOR EUROPE

Professor Anne DEJEAN-ASSÉMAT
Research Director INSERM, Director of the Laboratory of Nuclear Organization and Oncogenesis/INSERM U579
Pasteur Institute, Paris
FRANCE

"For the elucidation of the molecular and cellular mechanisms at the origin of certain cancers in humans."

MOLECULAR BIOLOGY: Anne Dejean-Assémat is an internationally renowned molecular biologist whose research focuses on the molecular genetics of human cancer, specifically the role of nuclear receptors in the process of tumor development. Her leadership in this field has greatly advanced scientists' understanding of the genetic causes of cancer. In particular, she and her team discovered that a specific protein – the retinoic acid receptor – is mutated in two types of human cancer: liver cancer associated with Hepatitis B infection, and certain forms of leukemia. Her contribution to understanding these mutations and their underlying mechanisms has opened the door to the development of new cancer treatment strategies.



2010 LAUREATE FOR LATIN AMERICA

Professor Alejandra BRAVO

Professor, Institute of Biotechnology
Universidad Nacional Autonoma de Mexico (UNAM),
Cuernavaca

MEXICO

"For her understanding of the mechanism of a bacterial toxin that acts as an environmentally friendly insecticide."

MICROBIOLOGY: Alejandra Bravo, an accomplished biologist and advocate of agricultural biotechnology in Latin America, studies how toxins that are a natural by-product of specific bacteria can be used to develop environmentally friendly means to control insect pests. Transgenic crops and sprays containing toxins from the bacterium Bacillus thuringiensis (Bt) provide an attractive alternative to chemical insecticides. The beauty of Bt toxins is that they selectively target only the detrimental insects that feed on the plant itself, without harming people or wildlife. By unravelling Bt toxin's mode of action, Alejandra Bravo and her team were able to devise ways to overcome resistance that insects may develop to bio-insecticides.

2010 LAUREATE FOR NORTH AMERICA

Professor Elaine FUCHS

Professor, Laboratory of Cell Biology and Development
The Rockefeller University
New York, NY

USA

"For the discovery of stem cells and key processes involved in skin development, maintenance and repair."

CELL BIOLOGY: Elaine Fuchs is an eminent leader in skin biology and genetic skin disorders, including cancers. She has always been intrigued by how two such very different structures as hair and skin can develop from the same "parent" stem cells, and this curiosity has driven her research. She pioneered a technique called reverse genetics, which consists of studying a protein function and then working up to the disease. She and her team have used this method to uncover the genetic basis of a number of skin diseases and cancers. Her research has provided extraordinary new insights into skin stem cells – knowledge that holds promise for the treatment of skin disorders and injuries.

L'ORÉAL - UNESCO AWARDS 2009

PHYSICAL SCIENCES

2009 LAUREATE FOR AFRICA & ARAB STATES

Professor TEBELLO NYOKONG
Professor, Department of Chemistry
Rhodes University, Grahamstown
SOUTH AFRICA

"For her work on harnessing light for cancer therapy and for environmental clean-up."

MEDICINAL CHEMISTRY: Tebello Nyokong is a pioneering chemist who has spent her career studying phthalocyanines, chemical compounds commonly used as a dye for blue jeans. They offer great promise for cancer treatment known as photodynamic therapy, which does not cause the harmful side effects typically associated with chemotherapy. The same properties that make phthalocyanines valuable for cancer therapy make them useful in applications such as chemical sensors, liquid crystals, semiconductors and the cleanup of environmental pollutants. In addition to her projects, teaching and research, Tebello Nyokong is an important role model for young women studying science in South Africa.

2009 LAUREATE FOR ASIA/PACIFIC

Professor AKIKO KOBAYASHI
Professor, Department of Chemistry
College of Humanities and Sciences
Nihon University, Tokyo
JAPAN

"For her work on organic metals which could open up new possibilities in electronic devices."

SOLD-STATE CHEMISTRY: For many years, scientists did not believe that a single-component molecular metal could exist – until Akiko Kobayashi discovered one. Her design and synthesis of a single-component molecular metal revolutionized the field of solid-state chemistry and made scientists reconsider what they thought they knew about molecular metals. At the same time, it opened the door for these metals to be used in industrial and biomedical applications. Molecular metals are key components in flat-panel televisions and computer monitors, as well as solar panels and optical amplifiers. The single-component molecular metal is one of the most important recent discoveries of new materials with new physical properties.

2009 LAUREATE FOR EUROPE

Professor ATHENE DONALD
Professor, Experimental Physics
Cavendish Laboratory
Department of Physics, University of Cambridge
UNITED KINGDOM

"For her work in unravelling the mysteries of the physics of messy materials ranging from cement to starch."

SOFT MATTER PHYSICS: Athene Donald is an imaginative scientist who has developed techniques to characterize soft materials in their "natural state" – i.e., without having to freeze them, dry them, coat them with conductive materials or otherwise alter them. Her research activity focuses on using the ideas of soft matter physics to study a wide range of systems of both synthetic and biological origin. Her work has laid the foundation for exploring relationships between structure, properties and processing in a wide variety of "messy materials" – for example, her studies on starch have enabled food and plant scientists to benefit from tools traditionally used only in the realm of pure physics.

2009 LAUREATE FOR LATIN AMERICA

Professor Beatriz BARBUY
Professor, Institute of Astronomy, Geophysics and Atmospheric Sciences
University of São Paulo
BRAZIL

"For her work on the life of stars from the birth of the universe to the present time."

Astrophysics: Beatriz Barbuy has made a major contribution to the field of astrophysics through her work on the evolution of the chemical composition of stars, particularly old stars, which have much to tell about the formation of the Milky Way. As an expert at both observational astronomy and the interpretation of spectroscopic data, she has obtained spectra for many different samples of stars, using the Hubble Space Telescope and the Very Large Telescope of the European Southern Observatory in Chile, among others. She has also computed a large library of theoretical so-called "synthetic" spectra, which other scientists use in their investigations of our own galaxy and other galaxies.

2009 LAUREATE FOR NORTH AMERICA

Professor Eugenia KUMACHEVA
Professor, Department of Chemistry
University of Toronto, Ontario
CANADA,

"For the design and development of new materials with many applications including targeted drug delivery and materials for high density optical data storage."

Polymer Materials Science: Born in Russia, where she earned her PhD at the Institute of Physical Chemistry in Moscow, Eugenia Kumacheva is an expert designer of novel materials that perform very specific functions. Her scientific approach consists of exploring the fundamental properties of fascinating materials and then seeking to develop real-world applications for them. One of her inventions is a material that works as a memory storage device in a way that differs from current popular formats, including CDs and DVDs. Her research also has important biomedical applications, such as drug delivery vehicles that bring an anti-cancer drug to a specific diseased site and release it where it is most needed.

L'ORÉAL - UNESCO AWARDS 2008

LIFE SCIENCES

2008 LAUREATE FOR AFRICA & ARAB STATES

PROFESSOR LIHADH AL-GAZALI
Professor in Clinical Genetics and Pediatrics
Department of Pediatrics
United Arab Emirates University, Al-Ain
UNITED ARAB EMIRATES

"For her contributions to the characterization of inherited disorders."

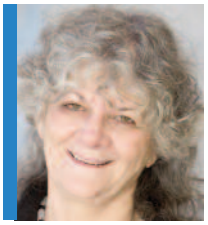
CLINICAL GENETICS: Lihadh Al-Gazali is a leading clinical geneticist and a pioneer of genetics research in the Arab region. For over 17 years she has worked to educate Middle Eastern populations about clinical genetics, defining several new syndromes and contributing to the clinical and molecular characterization of many disorders. She established a registry for monitoring birth defects for the United Arab Emirates, the first registry from an Arab country to gain membership in the International Clearinghouse of Birth Defects based in Rome. The UAE population has a high incidence of recessive genetic disorders, and she has helped raise awareness of the importance of genetic counseling in the country.

2008 LAUREATE FOR ASIA/PACIFIC

ASSOCIATE PROFESSOR V. NARRY KIM
School of Biological Sciences
Seoul National University
REPUBLIC OF KOREA

"For elucidating the formation of a new class of RNA molecules involved in gene regulation."

MOLECULAR BIOLOGY: V. Narry Kim specializes in the biology of microRNAs, which play a key role in gene regulation. She has greatly contributed to the understanding of microRNA biogenesis, and her studies have laid the groundwork for the improvement of RNA interference technologies, with promising potential biotechnology and medical adaptations. MicroRNAs are tiny molecules that control several developmental pathways critical to life, such as the formation of blood and organs, cell proliferation, and eventually cell death. Although much about the influence and the extent of their effects remains undiscovered, she has shown that microRNAs play important regulatory roles in fundamental cellular processes.



2008 LAUREATE FOR EUROPE

PROFESSOR ADA YONATH
Professor of Structural Biology and Director,
Helen & Milton A. Kimmelman Center for Biomolecular Structure and Assembly
Weizmann Institute for Science, Rehovot
ISRAEL
NOBEL PRIZE IN CHEMISTRY 2009

"For her structural studies of the protein biosynthesis system and its disruption by antibiotics."

STRUCTURAL BIOLOGY: Ada Yonath, who is widely considered the pioneer of ribosome crystallography, succeeded despite serious doubts in crystallization and in the determination of the exact three-dimensional structures of ribosomes and of their complexes with antibiotics. Her research thus illuminated numerous crucial insights into antibiotics' modes of action, selectivity, synergism and resistance. In 1970, she initiated Israel's first laboratory for protein crystallography, and introduced innovations that became routine, enabling otherwise formidable projects in structural biology and medicinal chemistry.

2008 LAUREATE FOR LATIN AMERICA

PROFESSOR ANA BELÉN ELGOYHEN
Independent Investigator,
Institute for Genetic Engineering and Molecular Biology (CONICET)
University of Buenos Aires, School of Medicine, Buenos Aires
ARGENTINA

"For her contributions to the understanding of the molecular basis of hearing."

AUDITORY PHYSIOLOGY: Ana Belén Elgoyhen studies the neurochemical mechanisms that regulate hearing. She is best known for having identified and characterized the specialized nerve receptors in the inner ear that modulate the sounds heard by the ear so that they are understandable. Her studies cleared up a long-standing mystery in auditory physiology regarding the molecular nature of these specialized nerve receptors, which researchers had been trying to identify for decades. Her discovery opened new avenues for the identification of potential therapeutic approaches for disorders of the inner ear and greatly expanded scientists' understanding of the signaling proteins involved in hearing.

2008 LAUREATE FOR NORTH AMERICA

PROFESSOR ELIZABETH BLACKBURN
Morris Herzstein Professor of Biology & Physiology
Department of Biochemistry & Biophysics
University of California, San Francisco
USA
NOBEL PRIZE IN MEDICINE 2009

"For the discovery of the nature and maintenance of chromosome ends and their roles in cancer and aging."

MOLECULAR BIOLOGY: Elizabeth Blackburn has made pioneering contributions to the field of telomere biology and to advancing the understanding of aging and cancer. She was the co-discoverer, in 1985, of telomerase, the enzyme that restores the ends of chromosomes by replenishing telomeres, which are essential to protecting genetic information in the chromosomes. Her work opened up a new area of inquiry into developing potential therapies for cancer and age-related and neurodegenerative diseases by manipulating telomerase activity in cells.

L'ORÉAL - UNESCO AWARDS 2007

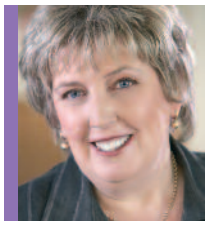
MATERIAL SCIENCES

2007 LAUREATE FOR AFRICA

PROFESSOR AMEENAH GURIB-FAKIM
Professor of Organic Chemistry and Pro-Vice Chancellor
University of Mauritius, Mauritius
MAURITIUS

"For her exploration and analysis of plants from Mauritius and their bio-medical applications."

ORGANIC CHEMISTRY/PHYTOCHEMISTRY: Ameenah Gurib-Fakim pioneered the inventorying and study of local medicinal plants and their pharmacological properties in her native Mauritius, a small island in the West Indian Ocean. The result was the first full inventory of the Mauritian pharmacopoeia, which contains more than 600 traditionally used plants that had never been analyzed scientifically. As a fervent advocate of the protection and sustainable use of biodiversity, she would like to facilitate the use and commercialization of medicinal plants by educating people about their benefits and potential side effects.

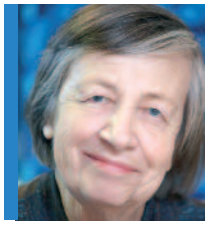


2007 LAUREATE FOR ASIA/PACIFIC

PROFESSOR MARGARET BRIMBLE
Chair of Organic and Medicinal Chemistry
University of Auckland, Auckland
NEW ZEALAND

"For her contribution to the synthesis of complex natural products, especially shellfish toxins."

MEDICINAL CHEMISTRY/ORGANIC SYNTHESIS: Margaret Brimble focuses on making and modifying complex, rare bioactive compounds derived from plants, animal tissues, microbes, or marine and soil organisms that exhibit antimicrobial, anticancer, or antiviral activity. She has worked extensively on the synthesis of shellfish toxins, which are associated with the algal blooms ("red tide") that occur in coastal waters. By synthesizing natural compounds and closely related synthetic analogues, scientists glean valuable information about how they work, ultimately producing even better compounds as drug candidates. Her research on shellfish toxins may be applied to developing potential drugs for pain, epilepsy, hypertension, cancer, and stroke.

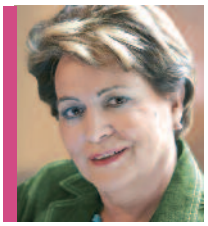


2007 LAUREATE FOR EUROPE

PROFESSOR TATIANA BIRSHTEIN
Professor, Institute of Macromolecular Compounds
Russian Academy of Sciences
St Petersburg
RUSSIA

"For her contribution to the understanding of the shapes, sizes and motions of large molecules."

POLYMER PHYSICS: Tatiana Birshtein is a theorist whose work has focused on the statistical physics of polymers. Many important natural and synthetic compounds are polymers: biomolecules, including proteins and DNA, and familiar materials like nylon and rayon and even the plastics used in milk jugs and garbage bags. Over the course of her prolific career, she has published hundreds of papers on various aspects of the theory of polymers and made a number of important theoretical contributions to the field of polymer science, constantly seeking to understand the large molecules' structures as a means of predicting what they do.



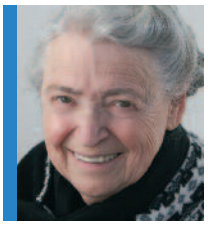
2007 LAUREATE FOR LATIN AMERICA

PROFESSOR LIGIA GARGALLO
Professor, Department of Physical Chemistry
Pontifical Catholic University of Chile
Santiago

CHILE

"For her contributions to understanding solution properties of polymers".

MACROMOLECULAR CHEMISTRY: Ligia Gargallo s work has focused on the synthesis of new functionalized polymers and the characterization of their structures, conformational properties, and physico-chemical behavior. The most fascinating and useful aspect of these large molecules is their ability to adapt to different environments by organizing themselves into a multitude of supramolecular structures, alone or in combination with other molecules. In 1974, she founded the Physical Chemistry of Macromolecules Laboratory at her university, which has flourished under her guiding hand and is today considered one of the most productive laboratories for the study of polymer science at the international level.



2007 LAUREATE FOR NORTH AMERICA

PROFESSOR MILDRED DRESSELHAUS
Institute Professor of Electrical Engineering and Physics
Massachusetts Institute of Technology (MIT)
Cambridge, Massachusetts

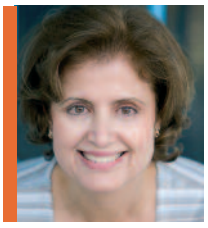
USA

"For her research on solid state materials, including conceptualizing the creation of carbon nanotubes."

NANOTECHNOLOGY: Long a leading figure in carbon research, Mildred Dresselhaus's contributions to the carbon science field constitute a guiding force in its development. Among her many achievements, she provided the tools and fundamental understanding required to analyze carbon nanotubes and other nanoscale structures. She is known for taking a "bottom-up" approach to research in which she develops new nanoscale systems, characterizes their properties, and then sees what they can be used for. She is the recipient of the 2008 Oliver E. Buckley Condensed Matter Physics Prize and of the 2008 Oersted Medal for leadership in Physics Education.

L'ORÉAL - UNESCO AWARDS 2006

LIFE SCIENCES

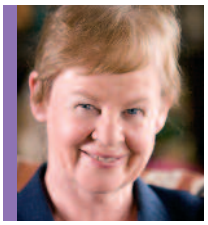


2006 LAUREATE FOR AFRICA

PROFESSOR HABIBA BOUHAMED CHAABOUNI
Professor of Medical Genetics
University of Tunis
TUNISIA

"For her contribution to the analysis and prevention of hereditary disorders".

HUMAN GENETICS: In addition to helping medical genetics gain recognition as an essential discipline in Tunisia, Habiba Bouhamed Chaabouni has devoted her career to improving conditions for the families of children with genetic diseases. As a medical student, her first-hand experience of the difficulties faced by these families left a deep impression on her. Tunisia has one of the world's highest rates of consanguineous marriage, resulting in a high prevalence of genetic disorders. She has worked for years to set up the necessary infrastructure for genetic counseling: training clinicians in diagnostic techniques, establishing modern laboratory facilities and developing research in genetic determination of hereditary disorders.

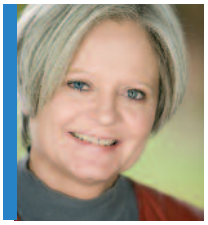


2006 LAUREATE FOR ASIA/PACIFIC

PROFESSOR JENNIFER GRAVES
Research School of Biological Sciences,
Australian National University, Canberra
Director of ARC Centre for Kangaroo Genomics
AUSTRALIA

"For her studies on the evolution of mammalian genomes".

MAMMALIAN GENOMICS: Jennifer Graves' contribution to understanding the evolution, function and organization of the mammalian genome has had a major effect on current thinking in the field. By exploiting the genetic diversity of Australia's unique mammals, she has brilliantly illustrated the importance of a comparative genomics approach in modern biology, revealing valuable insights into genome evolution, as well as into mammalian development, reproduction, genetic disease, and species survival in general. Much of her career has focused on the evolutionary history of the X and Y chromosomes. The Y chromosome (responsible for "maleness") is proposed to be degenerating, and Professor Graves has famously predicted its demise in a few million years.



2006 LAUREATE FOR EUROPE

PROFESSOR CHRISTINE VAN BROECKHOVEN
Molecular Biology and Genetics, University of Antwerp
Research Director at the Institute Born-Bunge
Scientific Director of the Department of Molecular Genetics,
Flanders Interuniversity Institute for Biotechnology
BELGIUM

"For her genetic investigations of Alzheimer's and other neurodegenerative disorders".

MOLECULAR GENETICS: As a young woman, Christine Van Broeckhoven forged her way in a completely new and emerging area of research: molecular genetics. She has carried out ground-breaking research in this field, in particular concerning the molecular genetics of neurological diseases. An exceptionally prolific scientist, Christine Van Broeckhoven has made seminal contributions to the understanding of the pathology of Alzheimer's disease, the most common form of dementia, and is recognized as a world authority on the disease. She is also working on neurodegenerative brain disorders such as frontotemporal dementia and Parkinson's disease.

2006 LAUREATE FOR LATIN AMERICA

PROFESSOR ESTHER OROZCO
Experimental Pathology
Centro de Investigación y de Estudios Avanzados
del Instituto Politécnico Nacional
General Director, Instituto de Ciencia y Tecnología del Distrito Federal,
Mexico City
MEXICO

"For her discovery of the mechanism and control of infections by amoebae in the tropics".

MOLECULAR PATHOLOGY: Early in her career, Esther Orozco chose to study the Entamoeba histolytica, a serious public health problem in Mexico and many other developing countries. This parasite causes amoebic dysentery and kills some 100,000 people each year. There is currently no protective vaccine available and infection by this parasite remains the third most common cause of death from parasitic infections. Her research on the proteins and genes involved in the virulence of E. histolytica has helped open the way for the future development of a vaccine against this parasite, which infects more than 10% of the world's population.

2006 LAUREATE FOR NORTH AMERICA

PROFESSOR PAMELA BJORKMAN
Max Delbruck Professor of Biology and Investigator,
Howard Hughes Medical Institute
California Institute of Technology (CalTech)
Pasadena, California
USA

"For her discovery of how the immune system recognizes targets".

MOLECULAR BIOLOGY/IMMUNOLOGY: Pamela Bjorkman has made pioneering contributions to the fundamental understanding of the functioning of the immune system, through a rare combination of intellectual creativity and outstanding technical skills in x-ray crystallography, molecular biology, and biochemistry. Her study of the structures and interactions of proteins that mediate immune recognition has led to discoveries with a major impact in autoimmune disease, HIV, cancer, and iron metabolism. Early in her career, she solved the 3D structure of a major histocompatibility complex (MHC) protein, which led to an increased understanding of what goes wrong in autoimmune diseases.

L'OREAL-UNESCO TRIBUTE FOR UNESCO'S 60TH ANNIVERSARY

Christiane Nüsslein-Volhard, currently the Director of Genetics at the Max Planck Institute in Tübingen, Germany, was awarded the 1995 Nobel Prize in Medicine with Eric F. Wieschaus and Edward B. Lewis for their work on genetic development in Drosophila.
In the late 1970s, Professor Nüsslein-Volhard accepted a position at the European Molecular Biology Laboratory in Heidelberg, where she and Eric F. Wieschaus conducted research to find out how a newly fertilized fruit fly egg develops into a fully segmented embryo. They published their results in the journal Nature in 1980. In 1991, with Edward B. Lewis, she received the Albert Lasker Medical Research Award, considered second only to the Nobel Prize.

PROFESSOR CHRISTIANE NÜSSLEIN-VOLHARD
Nobel Prize in Medicine 1995

"For her efforts in supporting highly qualified women with children to facilitate their progress in science."

In 2006, on the occasion of UNESCO's 60th anniversary, L'Oreal and UNESCO awarded a special tribute to Christiane NÜSSLEIN-VOLHARD, accompanied by a $100,000 donation to the Christiane Nüsslein-Volhard Foundation.
Christiane NÜSSLEIN-VOLHARD, a developmental geneticist, created the foundation in 2003 for women facing the challenge of reconciling family life and research. The foundation awards fellowships to graduate students in Germany pursuing a PhD in the experimental natural sciences or in medicine who see their professional advancement held back by the added responsibility of caring for children. Financial assistance for childcare and domestic help gives mothers greater flexibility and time to devote to their scientific careers.

L'ORÉAL - UNESCO AWARDS 2005

MATERIAL SCIENCES

2005 LAUREATE FOR AFRICA

PROFESSOR ZOHRA BEN LAKHDAR
Department of Physics, Laboratory of Atomic-Molecular Spectroscopy and Applications
University of Tunis El Manar
TUNISIA

"For her experiments and models on infrared spectroscopy and its applications to pollution detection and medicine".

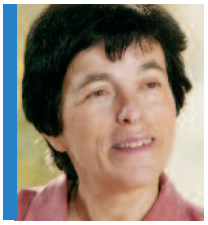
ATOMIC AND MOLECULAR PHYSICS: Zohra Ben Lakhdar has greatly furthered the development of optics and photonics as a scientific discipline in Tunisia and all of Africa, making a number of valuable contributions to optical science and its applications in many different areas, from the environment to biotechnology. She has developed advanced theoretical (ab-initio) and experimental spectroscopic methods to study the influence of pollutants on the quality of air, water, and plants. Her studies are important starting points for potential applications in a wide range of fields, from astrophysics to agriculture, medicine, pharmaceuticals, and the chemical industry.

2005 LAUREATE FOR ASIA/PACIFIC

PROFESSOR FUMIKO YONEZAWA
Professor Emeritus of Physics
Department of Physics, Keio University, Yokohama
JAPAN

"For her pioneering theory and computer simulations of amorphous semiconductors and liquid metals".

PHYSICS OF DISORDERED SYSTEMS: Fumiko Yonezawa's career began in the mid-1960s when, as part of her thesis, she proposed a new method for calculating the electronic density of states in disordered systems. This field has since grown to include the study of non-crystalline solids, amorphous materials, glass, alloys, and liquid metals. In 1968, Fumiko Yonezawa was one of four young scientists who, working independently, developed a groundbreaking theory that provided a compelling explanation for physical properties of disordered systems from a theoretical viewpoint. In 1995, she was elected the first woman president of the Physical Society of Japan, where less than one percent of physicists are women.



2005 LAUREATE FOR EUROPE

PROFESSOR DOMINIQUE LANGEVIN
Director of Research, CNRS Laboratory of Solid State Physics
University of Paris-Sud, Orsay
FRANCE

"For her fundamental investigations of detergents, emulsions and foams".

SOFT MATTER PHYSICS The practical applications of Dominique Langevin's research have been extremely valuable for industry in many different sectors: from everyday products like laundry detergent and milk proteins, to oil recovery for the petroleum industry, nuclear waste treatment, and even the construction of a foam module for the International Space Station. Her research focuses on the dynamic behavior of interfaces, a relatively unexplored field due to the lack of easy-to-use experimental techniques. Today she is recognized as one of the leading scientists in the field of soft matter and surface science.

2005 LAUREATE FOR LATIN AMERICA

Professor Belita KOILLER

Institute of Physics, Solid State Physics Department
Federal University of Rio de Janeiro

BRAZIL

"For her innovative theoretical research on electrons in disordered materials such as glass."

Condensed Matter Physics: Belita Koiller's recent research has important implications for two of the most exciting fields in physics today: quantum computing and nanoscience. She is a renowned theorist and an outstanding teacher, whose work has helped improve the understanding of complex condensed matter systems and opened up many research opportunities for other scientists. She has often demonstrated her ability to develop elegant theoretical approaches to unraveling complex experimental systems, and her recent findings are expected to have an impact on the design of quantum computing devices.

2005 LAUREATE FOR NORTH AMERICA

Professor Myriam P. SARACHIK

Distinguished Professor of Physics
Department of Physics, City College of New York (CUNY), New York

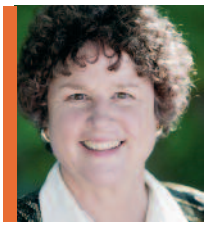
USA

"For important experiments on electrical conduction and the transition between metals and insulators".

Condensed Matter Physics: For over four decades, Myriam Sarachik has been a leader in the international physics community and a prominent experimental condensed matter physicist. Her research interests include superconductivity, disordered metallic alloys, metal-insulator transitions, hopping transport in solids, and the properties of molecular nanomagnets. She has made seminal contributions to Kondo physics, a central theme in condensed matter physics, the metal-insulator transition, and molecular magnetism. In 2004, the City of New York gave her a public service award "for blazing trails as a scientist, researcher, teacher, mentor, and humanitarian" and in 2005 she received the Oliver E. Buckley Prize in Condensed Matter Physics.

L'ORÉAL - UNESCO AWARDS 2004

LIFE SCIENCES



2004 LAUREATE FOR AFRICA

PROFESSOR JENNIFER THOMSON
Department of Molecular and Cell Biology
University of Cape Town
SOUTH AFRICA

"For her development of transgenic plants resistant to viral infections, drought, and other risks."

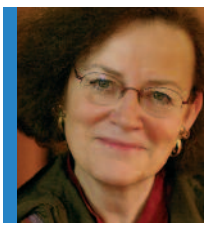
MOLECULAR BIOLOGY: Jennifer Thomson has devoted much of her career to the study of genetically modified plants to improve agricultural productivity and food quality. Her research group developed an experimental variety of transgenic maize resistant to the Maize Streak Virus, a disease with devastating effects on agriculture in parts of Africa where maize is the staple food and livestock forage crop. She more recently focused on ways to engineer transgenic crops with a high tolerance for drought and other stresses, such as high salinity and heat. Internationally recognized for her expertise in the field of GMO research, she is a co-founder of the Association of South African Women in Science and Engineering.

2004 LAUREATE FOR ASIA/PACIFIC

PROFESSOR NANCY IP
Head, Department of Biochemistry and Director,
Biotechnology Research Institute,
Hong Kong University of Science and Technology,
Hong Kong
CHINA

"For her discoveries on the molecular control of growth, differentiation, and synapse formation in the nervous system."

MOLECULAR NEUROBIOLOGY A world-renowned neuroscientist, Nancy Ip has identified a number of novel neurotrophic factors and demonstrated how they activate specific receptor molecules on nerve cells. Her research led to the identification of neurotrophic factors as potential pharmaceutical agents for the treatment of neurodegenerative disorders such as Alzheimer's and Parkinson's diseases. She is also internationally recognized as a leader in elucidating the molecular signaling mechanisms at synapses, where nerve cells communicate.



2004 LAUREATE FOR EUROPE

PROFESSOR CHRISTINE PETIT
Chair of Genetics and Cell Physiology, Collège de France
Head of the Genetics and Physiology of Hearing Unit and the
Department of Neuroscience, Pasteur Institute, Paris
Head of INSERM UMRS 587 Laboratory
FRANCE

"For her elucidation of the genetic defects in hereditary deafness and other sensory disorders."

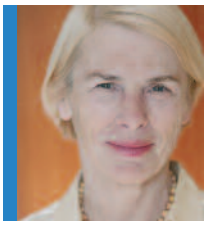
GENETICS / SENSORY PHYSIOLOGY As the pioneer in the field of hereditary deafness, Christine Petit, by solving the obstacles to finding the genes involved, has succeeded in the discovery of some twenty of them. Most of these genes encode previously unknown proteins of the cochlea, the auditory sensory organ. On that basis, she launched the exploration of the molecular mechanisms underlying the development and functioning of the cochlea. In 2006, together with her colleagues, she discovered the first gene involved in hereditary deafness not related to the cochlea but to auditory neurons. In 2002, she was the fifth woman to be appointed to the Collège de France since its creation in 1530.

2004 LAUREATE FOR LATIN AMERICA

PROFESSOR LUCIA MENDONÇA PREVIATO
Professor, Institute of Biophysics
Federal University of Rio de Janeiro
BRAZIL

"For her achievements in the understanding, treatment and prevention of Chagas' disease."

BIOPHYSICS / PARASITOLOGY: Lucia Mendonça Previato has devoted much of her career to the study of Trypanosoma cruzi, the parasite that causes Chagas disease, a potentially fatal condition that is endemic to Latin America, where it affects millions of people. In its chronic form, it leads to death from damage to the heart and digestive tract. Her research group was the first to discover that the parasite scavenges a crucial molecule, sialic acid, directly from its host's surface cell. The enzyme responsible for the transfer of the host's sialic acid to the parasite is thus a prime target for potential drugs and vaccines for Chagas disease.



2004 LAUREATE FOR NORTH AMERICA

PROFESSOR PHILIPPA MARRACK
Vice Chair and Professor, Department of Immunology
National Jewish Medical and Research Center, Denver
Professor, Health Sciences Center, University of Colorado
USA

"For her characterization of the functions of T lymphocytes in immunity and the discovery of super-antigens."

MOLECULAR BIOLOGY / IMMUNOLOGY: One of the world's leading investigators of T cells, Philippa Marrack's work has greatly advanced our understanding of their role in the immune system. When she began her research over 35 years ago, little was known about T cells. Today, thanks in part to her work, scientists understand how these cells protect us from infectious diseases, but at the same time can lead to autoimmune diseases such as rheumatoid arthritis and graft rejection and contribute to allergic diseases such as asthma. She is also the discoverer of superantigens, toxins produced by certain micro-organisms that stimulate large numbers of T cells and provoke the violent symptoms associated with food poisoning or toxic shock syndrome.

L'ORÉAL - UNESCO AWARDS 2003

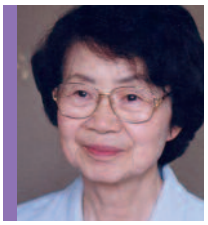
MATERIAL SCIENCES

2003 LAUREATE FOR AFRICA

PROFESSOR KARIMAT EL-SAYED
Solid State Physics, Faculty of Science
Ain Shams University, Cairo
EGYPT

"For her work on crystal growth, including the formation of kidney stones."

PHYSICS: Karimat El-Sayed's work focuses on structures (the distribution of atoms and impurities in atoms inside materials), microstructural properties, and the application of low concentrations of constituents in materials relevant to industrial metallurgy, and semi-conducting materials. She determined, for example, that aluminum foils are weakened by cracks resulting from the presence of a particular form of silica (sand) impurity and that oxygen atoms poison certain semiconductors exposed to the air. Her expertise in crystal growth enabled her to analyze the formation of kidney stones, which grow layer upon layer. She has devoted a great deal of time to describing the condition of women scientists in Egypt.

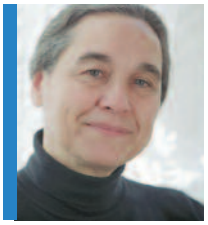


2003 LAUREATE FOR ASIA/PACIFIC

PROFESSOR FANG-HUA LI
Institute of Physics,
Chinese Academy of Sciences, Beijing
CHINA

"For her discovery of novel techniques in electron microscopy."

ELECTRON MICROSCOPY: Fang-hua Li has devoted her scientific career to crystallography and electron microscopy. Many creative contributions sprouted from a novel idea she had: enhancing high-resolution electron microscopy by referring to and utilizing various analysis methods developed in diffraction crystallography. To attain her goal, she developed the microscope image contrast theory. Her efforts opened up a new field of electron crystallography research.

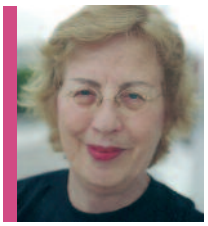


2003 LAUREATE FOR EUROPE

PROFESSOR AYSE ERZAN
Department of Physics
Istanbul Technical University
TURKEY

"For her theoretical work on the formation of tree-like structures."

CONDENSED MATTER PHYSICS: The common thread that runs through all of Ayse Erzan's work is the preoccupation with how interactions between simple constituents at close range translate themselves into behavior at large scales or long times, in a system incorporating a vast number of such basic units. These systems may be sand piles, chemical reactions, protein molecules, turbulent media or earthquakes. She has been able to deduce, from the rules governing the growth of such a pattern at the microscopic level, its properties at all scales.

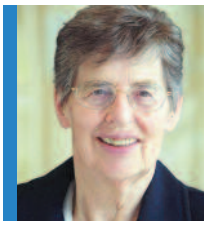


2003 LAUREATE FOR LATIN AMERICA

Professor Mariana WEISSMANN
Senior Researcher
Argentine National Research Council, Buenos Aires
ARGENTINA

"For her theoretical studies on novel forms of carbon."

Computational Condensed Matter Physics: Mariana Weissmann was a pioneer in using computers to study the properties of solids, and her work helped move our understanding of quantum solids from a qualitative view to quantitative predictions. Her talent has been to foresee areas that were growing in importance. One example is her early research on low-dimensional systems that later became known as the nanomaterials so widely used today. She has recently pursued an interest in fullerenes and nanotubes, the new forms of carbon.



2003 LAUREATE FOR NORTH AMERICA

Doctor Johanna M.H. LEVELT SENGERS
Scientist Emeritus, National Institute of Standards and Technology (NIST)
Gaithersburg, Maryland
USA

"For her experiments on critical opalescence in fluids."

Thermodynamics: Johanna Levelt Sengers' research centers on the behavior of fluids near critical points. She demonstrated that fluids obey the universal critical-point scaling laws first discovered in theoretical models and magnetic systems, and that water/steam falls into this universality class. With her collaborators, she published extensively on properties of near-critical fluids and fluid mixtures of importance in the chemical process industry. She and her NIST colleagues have contributed to better characterization of water and steam properties for scientific applications and the electric power industry.

L'ORÉAL - UNESCO AWARDS 2002

LIFE SCIENCES

2002 LAUREATE FOR AFRICA

PROFESSOR NAGWA MEGUID
Professor of Clinical and Cytogenetics
National Research Center, Cairo
EGYPT

"For her systematic genetic investigations of Down syndrome and other neurological conditions in the Mediterranean region."

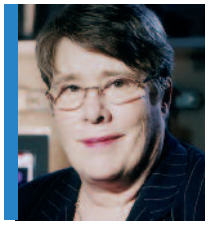
HUMAN GENETICS: Nagwa Meguid has studied genetic malformations which affect certain populations of the Mediterranean basin and are common in her country. Her clinical and biochemical observations of rare genetic syndromes leading to mental illness and Trisomy 21 (Down syndrome) have produced a valuable database for genetic researchers. She has acted as the principal investigator for a number of major research projects, and since 2002, she has been head of the Department of Research on Children with Special Needs.

2002 LAUREATE FOR ASIA/PACIFIC

PROFESSOR INDIRA NATH
Emeritus Professor and Chair, Research Advisory Committee, Institute of Pathology (ICMR), Safdarjung Hospital Campus, New Delhi
INDIA

"For her fundamental contributions to the pathogenesis, prevention and treatment of leprosy."

IMMUNOLOGY: Indira Nath is an internationally renowned authority on leprosy. She identified a deficiency in the immune response associated with triggering the disease in patients who develop the most serious form, lepromatous leprosy. This discovery constituted a significant step toward the development of treatments and vaccines. Thanks to further progress on the medical research and public health fronts, the number of affected individuals in India went from four million in the 1970s (representing one-third of the world population afflicted with leprosy) to less than one million today.



2002 LAUREATE FOR EUROPE

PROFESSOR MARY OSBORN
Department of Biochemistry and Cell Biology
Max Planck Institute for Biophysical Chemistry, Göttingen
GERMANY

"For her development of immunofluorescence microscopy as a tool for the study of cytoskeletal structures."

CELL BIOLOGY: Mary Osborn is one of the pioneers of immunofluorescence microscopy, a technique that is used today in laboratories throughout the world. This technology can be used to locate proteins in particular cell structures and reveals the complex and diverse elements present in the cell cytoplasm and cell nucleus. Her work has many important applications and has resulted in new reagents that can be used in the differential diagnosis of human tumors.

2002 LAUREATE FOR LATIN AMERICA

PROFESSOR ANA-MARÍA LÓPEZ-COLOMÉ
Department of Neurosciences,
Institute of Cellular Physiology, Faculty of Medicine,
Universidad Nacional Autónoma de México (UNAM),
Mexico City
MEXICO

"For her discoveries of the molecular pathways involved in vision and pathological alterations leading to blindness"

NEUROSCIENCES AND BIOCHEMISTRY: Ana-María López-Colomé studies the molecular mechanisms underlying normal retinal function, and their alteration in serious diseases of the retina that result in total blindness. Her work has led to the development of experimental models for the study of retinitis pigmentosa and proliferative vitroretinopathy, which are frequent causes of blindness, and has also promoted related clinical research. Throughout her career, she has provided an example for scientists in her country and to the education of new generations of students.

2002 LAUREATE FOR NORTH AMERICA

PROFESSOR SHIRLEY TILGHMAN
President of Princeton University
Professor of Molecular Biology
Princeton, New Jersey
USA

"For her discovery of parental imprinting and its role in embryological development."

GENETICS: One of the foremost geneticists of her generation, Shirley Tilghman was part of the team that cloned the first mammalian gene. She demonstrated how, during the development of the embryo, certain genes express themselves differently depending on which parent transmitted them. For example, she showed that only the maternal copy of the H19 gene is expressed, while the paternal copy remains silent. Normal development of the embryo depends on the correct functioning of this mechanism. A world-renowned scholar and exceptional teacher, in 2001 she became the first woman president of Princeton University.

L'OREAL TRIBUTE TO A LIFE ACHIEVEMENT

MARIANNE GRUNBERG-MANAGO
Emeritus Director of Research,
CNRS, Paris
FRANCE

"For her lifetime achievements and exceptional participation in the development of modern molecular biology."

BIOCHEMISTRY: Chosen to receive L'Oréal's Lifetime Achievement Award in 2002, Marianne Grunberg-Manago is one of the great scientists of her era. The first woman President of the French Academy of Sciences, she also devoted herself to promoting women's place in science. At the age of 33, Marianne Grunberg-Manago discovered an enzyme that was to play a key role in the understanding of the genetic code, alongside Severo Ochoa, for whom this work earned the Nobel Prize in Medicine. She later served as Director of Research at the CNRS and was head of the Department of Biochemistry at the Institute of Physiochemical Biology, where she continued her work on the genetic code and the regulation of gene expression.

L'ORÉAL - UNESCO AWARDS 2001

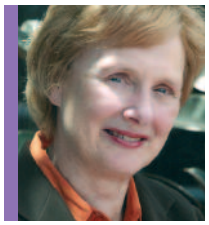
LIFE SCIENCES

2001 LAUREATE FOR AFRICA

PROFESSOR ADEYINKA GLADYS FALUSI
Institute for Advanced Medical Research & Training, College of Medicine, University of Ibadan
NIGERIA

"For her molecular-genetic identification and classification of hereditary blood diseases in Africa."

MOLECULAR GENETICS: For nearly 30 years, Adeyinka Gladys Falusi has studied the molecular genetics of thalassemia, sickle cell disease, glucose 6 phosphate dehydrogenase, and malaria, paving the way for their prevention and thus opening up possibilities for prenatal diagnosis in Nigeria. As Director of the Postgraduate Institute for Medical Research & Training, University of Ibadan, and Chair of the Institutional Review Board (2001-2005), she has been instrumental in upgrading to an international standard the institution's IRB. She also contributes to capacity building of research ethics committees in Africa. She is a founding member and current president of the Sickle Cell Association of Nigeria.



2001 LAUREATE FOR ASIA/PACIFIC

PROFESSOR SUZANNE CORY
Director, The Walter and Eliza Hall Institute of Medical Research, Melbourne
Professor of Medical Biology, University of Melbourne
AUSTRALIA

"For her contributions to our understanding of the genetic basis of human lymphoma and other cancerous conditions."

MOLECULAR GENETICS: One of Australia's most distinguished molecular biologists, Suzanne Cory's work has contributed to advancing our understanding of the molecular basis of cancer. Working with Professor Jerry Adams, she has done fundamental, pioneering research into the genetic alterations related to lymphomas, in particular the role of chromosome translocations and of genetic changes promoting increased cell survival. She is a Fellow of the Australian Academy of Science and has been elected to the French Academy of Sciences, Royal Society UK, US National Academy of Sciences and Pontifical Academy of Sciences.

2001 LAUREATE FOR EUROPE

DOCTOR ANNE MC LAREN
Principal Research Associate, Wellcome Trust/Cancer Research UK Gurdon Institute, University of Cambridge
UNITED KINGDOM

"For her discoveries in reproductive biology, which have paved the way to human assisted reproduction."

REPRODUCTIVE BIOLOGY: Anne McLaren was a pioneer in reproductive biology who made fundamental advances in genetics that paved the way for the development of human in vitro fertilization. Her research focused on the reproductive biology, developmental biology and genetics of mammals. She was a member of the UK Human Fertilisation and Embryology Authority, which was instrumental in improving the lot of infertile women worldwide, and a member of the European Commission's Group of Advisors on the Ethics of Biotechnology. She died in July 2007 at the age of 80.

2001 LAUREATE FOR LATIN AMERICA

Professor Mayana ZATZ
Professor of Genetics and Director of the Human Genome Research Center
University of São Paulo
BRAZIL

"For her contributions to the pathology, diagnosis and management of hereditary neuromuscular disorders."

Genetics: Mayana Zatz has dedicated her life in science to research related to neuromuscular disorders, in particular Duchenne muscular dystrophy, a severe disease that affects young boys and causes progressive muscle degeneration. Since 1989, her laboratory group has conducted DNA research, protein analysis and clinical assessment focusing mainly on patients with various forms of inherited neuromuscular disorders. These disorders affect one in 1,000 individuals worldwide, including approximately 180,000 people in Brazil. Concerned about the difficulties facing families affected by these diseases, Mayana Zatz founded the Brazilian Muscular Dystrophy Association in 1981 to help improve their quality of life.

2001 LAUREATE FOR NORTH AMERICA

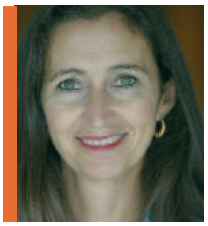
Professor Joan Argetsinger STEITZ
Sterling Professor of Molecular Biophysics and Biochemistry
Yale University School of Medicine
New Haven, Connecticut
USA

"For her discoveries of the structure, biological functions and pathological implications of small RNA molecules."

Molecular Biophysics and Biochemistry: Joan A. Steitz, whose studies have defined the roles of small ribonucleoprotein particles in RNA processing in mammals, has made outstanding contributions to the molecular genetics field. Her research focuses on the structure and function of these cellular complexes, which play a key role in some of the most basic biological processes that convert information in the DNA to the active protein molecules of the living cell. Her RNA research over the past 30 years has made a strong impact on the development of modern cell and molecular biology, and her work has had important implications for the diagnosis and treatment of rheumatic and autoimmune diseases.

L'ORÉAL - UNESCO AWARDS 2000

LIFE SCIENCES



2000 LAUREATE FOR AFRICA

PROFESSOR VALERIE MIZRAHI
School of Pathology
University of the Witwatersrand Medical School, Johannesburg
SOUTH AFRICA

"For her contributions to the fight against tuberculosis and other infectious diseases."

MOLECULAR BIOLOGY: Valerie Mizrahi's research in molecular biology led to rapid recognition of her achievements. While in her early 40's, she made significant contributions to the enzymology of HIV, the virus that causes AIDS. Her subsequent work focused on the mechanisms of DNA metabolism, culturability, and resuscitation in Mycobacterium tuberculosis, the organism that causes human tuberculosis. She is also an esteemed teacher and has trained a number of talented researchers. In addition to her professorship at the University of the Witwatersrand Medical School, she was named director of several medical research units.

2000 LAUREATE FOR ASIA/PACIFIC

PROFESSOR TUNEKO OKAZAKI
Institute of Comprehensive Medical Science, Fujita Health University, Aichi
JAPAN

"For her discovery of the molecular mechanism of retrograde DNA replication."

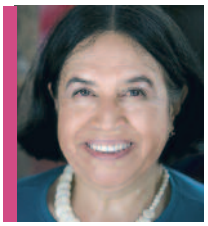
MOLECULAR BIOLOGY: Tuneko Okazaki spent most of her career as a molecular biologist at Nagoya University, where she became the first female professor—a very rare example in Japan among women of her generation. Her primary achievement is her work on DNA replication (the discovery of what is known as the Okazaki fragment) and chromosome segregation. She has also trained many young scientists who now occupy leading roles in life sciences research. From 1997 to 2002, she was a professor at the Institute of Comprehensive Medical Science, Fujita Health University, where she is now a guest professor and continues her pioneering research on human artificial chromosomes.

2000 LAUREATE FOR EUROPE

PROFESSOR MARGARITA SALAS
Spanish Research Council, Severo Ochoa Molecular Biology Center, Madrid
SPAIN

"For her fundamental contributions to our understanding of DNA replication."

MOLECULAR BIOLOGY: Margarita Salas is one of Europe's leading molecular biologists and was the first woman member of the Spanish Academy of Sciences (1988), the first woman scientist to enter the Royal Academy of Spain (2003), and the first woman to become President of the Institute of Spain (since 1995-2003), coordinating the eight Royal Academies. She has had a major impact on the development of molecular biology research in Europe and inspired a generation of scientists. Her research has made the Bacillus bacteriophage 29 a paradigm for several molecular mechanisms of general biological processes, such as DNA replication, regulation of transcription and phage morphogenesis.



2000 LAUREATE FOR LATIN AMERICA

Professor Eugenia Maria Del PINO VEINTIMILLA
Department of Biology
Pontifical Catholic University, Quito
ECUADOR

"For her original investigations on the biology of marsupial tree frogs and her efforts on behalf of conservation in the Galapagos Islands."

Biology: Eugenia del Pino Veintimilla has concentrated her research on the reproductive and developmental physiology of marsupial tree frogs, which are unique to Latin America and about which very little was known before she began her work. Her interests also include the conservation of the Galapagos Islands and she has collaborated with the Charles Darwin Foundation, helping to set up a scholarship program to train students in research methodology. Some of these students have since become international conservation leaders. She was recently named a foreign member of both the U.S. National Academy of Sciences and the American Academy of Arts & Sciences.

2000 LAUREATE FOR NORTH AMERICA

Professor Joanne CHORY
Director, Plant Biology Laboratory
Salk Institute for Biological Studies, La Jolla, California
Investigator, The Howard Hughes Medical Institute
Adjunct Professor of Biology, University of California, San Diego, CA USA
USA

"For her elucidation of the mechanisms involved in the response of plant organisms to light."

Molecular Biology: Joanne Chory is one of the world's leading researchers in plant molecular biology. Her seminal contributions in two areas—light perception and its connection to growth mediated by plant steroid hormones—have clarified how plants alter their body plan in response to a changing environment. She has received numerous awards in recognition of her lab's work. Dr Chory is a member of the U.S. National Academy of Sciences and the American Academy of Arts and Sciences, a Fellow of the American Association for the Advancement of Science, and an Associate Member of EMBO.

L'OREAL TRIBUTE TO A LIFE ACHIEVEMENT

Doctor Thressa STADTMAN
Emeritus Professor, Laboratory of Biochemistry,
National Heart, Lung and Blood Institute
National Institutes of Health,
Bethesda, Maryland
USA

"For her lifetime achievements in biochemical research, in particular her elucidation of selenium utilization and functions."

Biochemistry: Thressa Campbell Stadtman was chosen to receive L'Oréal's Lifetime Achievement Award in 2000 for her life's work in biochemical research. She began her career over 60 years ago when it was unusual for women to pursue scientific studies. She has had an extraordinary career as a biochemist and teacher, publishing articles on topics as varied as the role of vitamin B12 and the functions of selenium and selenocysteine. A member of the American National Academy of Sciences since 1981, she is internationally recognized by the scientific community.

L'ORÉAL - UNESCO AWARDS 1998

LIFE SCIENCES

1998 LAUREATE FOR AFRICA

EMERITUS PROFESSOR GRACE O.L. OLANIYAN-TAYLOR
Emeritus Professor of Chemical Pathology
Ibadan University, Ibadan
NIGERIA

"For her contributions to the epidemiology of cardiovascular disease in Africa."

BIOCHEMISTRY: Grace O.L. Olaniyan-Taylor, Emeritus Professor of Chemical Pathology at Ibadan University, is a biochemist specializing in lipid metabolism, and has taught medicine in Nigeria and other African countries. Her research led to a better understanding of the risk factors involved in cardiovascular disease. Professor Olaniyan-Taylor's interethnic comparative physiological and pathological studies have helped expand the knowledge of certain risk factors (lipids, nutrition, socio-economic factors) in cardiovascular pathology. By comparing the lipid profiles of different ethnic and socio-economic groups, for instance, she has shown that varying cholesterol levels are determined by diet and lifestyle rather than race. After her retirement, she was appointed an Emeritus Professor in 2004 by the University of Ibadan.

1998 LAUREATE FOR ASIA/PACIFIC

PROFESSOR MYEONG-HEE YU
Director, Functional Proteomics Center
Korea Institute of Science and Technology (KIST), Seoul
REPUBLIC OF KOREA

"For her discoveries of protein folding and its relationship to human pathology."

MICROBIOLOGY: Myeong-Hee Yu's research has sought to unlock the structure, function, folding and stability of Alpha-1 antitrypsin. This protein, produced in the liver and released into the bloodstream, belongs to the family of serpins (serine proteinase inhibitors). When concentrations of alpha-1 antitrypsin are too low, or the protein is absent, damage to lung cells (emphysema) and the liver (cirrhosis) may result. Professor Yu's research on the stability of the alpha-1 antitrypsin established a direct link between a biological marker and genetic emphysema. In addition to opening innovative therapeutic prospects for these conditions, her work could shed new light on other genetic diseases

1998 LAUREATE FOR EUROPE

PROFESSOR PASCALE COSSART
Pasteur Institute
Head of the Bacteria-Cell Interactions Unit
Director of the Department of Cell Biology and Infection
Pasteur Institute, Paris
FRANCE

"For her elucidation of molecular and cellular mechanisms used by pathogenic bacteria to establish infection."

BACTERIOLOGY: Pascale Cossart heads the Bacteria-Cell Interactions Unit at the Pasteur Institute in Paris. For over 20 years she focused her research on the molecular and cellular basis of infection by listeria monocytogenes, a bacterium which causes listeriosis, a food-borne disease that affects pregnant women and immuno-compromised individuals. She has discovered several totally unsuspected and sophisticated strategies used by Listeria and other pathogens to infect human cells and tissues. In recognition of her achievements, Professor Cossart has received a series of prestigious prizes and is an Officier de la Légion d'honneur.

1998 LAUREATE FOR LATIN AMERICA

PROFESSOR GLORIA MONTENEGRO
Faculty of Agronomy and Forestry Sciences
Pontificia Universidad Catolica de Chile,
Santiago
CHILE

"For her efforts to apply modern science to the protection of plant ecosystems."

BIOLOGY: Gloria Montenegro, a pioneer in her field, has transposed findings about foreign ecosystems to native Chilean flora. Her research has paved the way for rehabilitation programs in areas hit by natural disasters such as fires and desertification. Through her work to collect, categorize, and study endemic plants, she applied a variety of approaches including taxonomy, phytochemistry, physiology, and ecology. Biosprospecting Chilean resources has led to discovery and patenting of natural products that control pathogen growth. She has also led the creation of several scientific networks and influenced a generation of ecologists in Latin America, contributing to changes in resource management throughout the continent.

LAUREATES OF THE L'ORÉAL-UNESCO AWARDS FOR WOMEN IN SCIENCE 1998-2011

AL-GAZALI Lihadh	2008	United Arab Emirates	Professor, Department of Pediatrics, UAE University, Al-Ain
AL-KHARAFI Faiza	2011	Kuwait	Professor, Chemistry Department, Kuwait University
BANFIELD Jillian	2011	USA	Professor, Materials Science Dept. and Earth and Planetary Science Department, University of California, Berkeley
BARBUY Beatriz	2009	Brazil	Professor, Institute of Astronomy, Geophysics and Atmospheric Sciences University of São Paulo
BEN LAKHDAR Zohra	2005	Tunisia	Professor of Physics, University of Tunis El Manar
BIRSHTEIN Tatiana	2007	Russia	Professor, Institute of Macromolecular Compounds, Russian Academy of Sciences, St. Petersburg
BJORKMAN Pamela J.	2006	USA	Professor of Biology, California Institute of Technology, Pasadena, CA
BLACKBURN Elizabeth	2008	USA	Department of Biochemistry & Biophysics, University of California, San Francisco. Nobel Prize in Medicine 2009
BOUHAMED CHAABOUNI Habiba	2006	Tunisia	Professor of Medical Genetics, University of Tunis
BRAVO Alejandra	2010	Mexico	Professor, Institute of Biotechnology, Universidad Nacional Autonoma de Mexico, Cuernavaca
BRIMBLE Margaret	2007	New Zealand	Chair of Organic and Medicinal Chemistry, University of Auckland
CHORY Joanne	2000	USA	Professor and Director, Plant Biology Laboratory, Salk Institute for Biological Studies, La Jolla, CA
CORY Suzanne	2001	Australia	Director, The Walter and Eliza Hall Institute of Medical Research, Melbourne
COSSART Pacsale	1998	France	Head of Bacteria-Cell Interactions Unit, Pasteur Institute, Paris
CRUZ Lourdes J.	2010	Philippines	Professor, Marine Science Institute, University of the Philippines Diliman, Quezon City
DEJEAN-ASSEMAT Anne	2010	France	Research Director, Laboratory of Nuclear Organization and Oncogenesis/INSERM U579, Pasteur Institute, Paris
DEL PINO VEINTIMILLA Eugenia	2000	Ecuador	Professor of Biology, Pontifical Catholic University, Quito
DONALD Athene	2009	United Kingdom	Professor, Experimental Physics, Cavendish Laboratory, Department of Physics, University of Cambridge
DRESSELHAUS Mildred	2007	USA	Institute Professor of Electrical Engineering and Physics, Massachusetts Institute of Technology (MIT) Cambridge
EL RIDI Rashika	2010	Egypt	Professor of Immunology, Faculty of Science, Cairo University
ELGOYHEN Ana Belén	2008	Argentina	Institute for Genetic Engineering and Molecular Biology (CONICET), Buenos Aires
EL-SAYED Karimat	2003	Egypt	Professor of Solid State Physics, Ain Shams University, Cairo
ERZAN Ays e	2003	Turkey	Professor of Physics, Istanbul Technical University
FALUSI Adeyinka Gladys	2001	Nigeria	Professor of Haematology & Human Genetics, University of Ibadan
FUCHS Elaine	2010	USA	Professor, Laboratory of Cell Biology and Development, The Rockefeller University, New York
GARGALLO Ligia	2007	Chile	Professor of Physical Chemistry, Pontifical Catholic University, Santiago
GRAVES Jennifer	2006	Australia	Professor, Australian National University, Canberra, Director of ARC Centre for Kangaroo Genomics
GRUNBERG-MANAGO Marianne	2002	France	Emeritus Director of Research, National Center for Scientific Research (CNRS), Paris
GURIB-FAKIM Ameenah	2007	Mauritius	Professor of Organic Chemistry, University of Mauritius
IP Nancy	2004	China	Professor and Head, Department of Biochemistry, Hong Kong University of Science and Technology
KIM V. Narry	2008	Rep. of Korea	School of Biological Sciences, Seoul National University
KOBAYASHI Akiko	2009	Japan	Professor, Department of Chemistry, College of Humanities and Sciences Nihon University, Tokyo
KOILLER Belita	2005	Brazil	Professor of Physics, Solid State Physics Department, Federal University of Rio de Janeiro
KUMACHEVA Eugenia	2009	Canada	Professor, Department of Chemistry, University of Toronto
LANGEVIN Dominique	2005	France	Professor and Director of Research, CNRS Laboratory of Solid State Physics, University of Paris-Sud, Orsay
LEVELT-SENGERS Johanna	2003	USA	Scientist Emeritus, National Institute of Standards and Technology (NIST), Gaithersburg, MD
L'HUILLIER Anne	2011	France	Professor, Department of Physics, Lund University
LI Fang-Hua	2003	China	Professor, Institute of Physics, Chinese Academy of Sciences, Beijing
LOPEZ-COLOME Ana-María	2002	Mexico	Professor, Faculty of Medicine, Universidad Nacional Autónoma de México (UNAM), Mexico City
MARRACK Philippa	2004	USA	Professor, National Jewish Medical and Research Center, Denver
MCLAREN (1927-2007) Anne	2001	United Kingdom	Wellcome Trust/Cancer Research UK Gurdon Institute University of Cambridge

MEGUID Nagwa	2002	Egypt	Professor of Clinical and Cytogenetics, National Research Center, Cairo
MENDONÇA-PREVIATO Lucia	2004	Brazil	Professor, Institute of Biophysics, Federal University of Rio de Janeiro
MIZRAHI Valerie	2000	South Africa	Professor, School of Pathology, University of the Witwatersrand Medical School, Johannesburg
MONTENEGRO Gloria	1998	Chile	Professor, Faculty of Agronomy and Forestry Sciences, Pontificia Universidad Catolica, Santiago
NATH Indira	2002	India	Professor, Institute of Pathology (ICMR), Safdarjung Hospital Campus, New Delhi
NÜSSLEIN-VOLHARD Christiane	2006	Germany	Director, Max Planck Institute for Developmental Biology, Tübingen. 1995 Nobel Prize in Medicine
NYOKONG Tebello	2009	South Africa	Professor, Department of Chemistry, Rhodes University, Grahamstown
OKAZAKI Tuneko	2000	Japan	Professor, Institute of Comprehensive Medical Science, Fujita Health University, Aichi
OLANIYAN-TAYLOR Grace	1998	Nigeria	Emeritus Professor of Chemical Pathology, Ibadan University
OROZCO Esther	2006	Mexico	Professor, Patología Experimental, Instituto Politécnico Nacional, Mexico City
OSBORN Mary	2002	Germany	Professor, Max Planck Institute for Biophysical Chemistry, Göttingen
PETIT Christine	2004	France	Professor, Pasteur Institute and Collège de France, Paris
SALAS Margarita	2000	Spain	Research Professor, Spanish Research Council, Severo Ochoa Molecular Biology Center, Madrid
SARACHIK Myriam P.	2005	USA	Distinguished Professor of Physics, City College of New York (CUNY)
STADTMAN Thressa	2000	USA	Emeritus Professor, Laboratory of Biochemistry, National Heart, Lung and Blood Institute National Institutes of Health, Bethesda, Maryland
STEITZ Joan A.	2001	USA	Professor, Molecular Biophysics and Biochemistry, Yale University, New Haven
THOMSON Jennifer	2004	South Africa	Professor, Department of Molecular and Cell Biology, University of Cape Town
TILGHMAN Shirley	2002	USA	President of Princeton University, Professor of Molecular Biology, Princeton, NJ
TORRES-PEIMBERT Silvia	2011	Mexico	Professor Emeritus, Department of Astronomy, National University of Mexico
VAN BROECKHOVEN Christine	2006	Belgium	Professor of Molecular Biology and Genetics, University of Antwerp
WEISSMANN Mariana	2003	Argentina	Senior Researcher, Argentine National Research Council, Buenos Aires
YAM Vivian Wing-Wah	2011	China	Professor, Department of Chemistry, University of Hong Kong
YONATH Ada	2008	Israel	Professor and Director, Center for Biomolecular Structure and Assembly, Weizmann Institute for Science, Rehovot. Nobel Prize in Chemistry 2009
YONEZAWA Fumiko	2005	Japan	Professor Emeritus of Physics, Keio University, Yokohama
YU Myeong-Hee	1998	Rep. of Korea	Professor, Functional Proteomics Center, Korea Institute of Science and Technology (KIST), Seoul
ZATZ Mayana	2001	Brazil	Professor of Genetics and Director of the Human Genome Research Center, University of São Paulo

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L'ORÉAL - UNESCO AWARDS

EXECUTIVE SECRETARIAT
L'ORÉAL CORPORATE FOUNDATION

41, RUE MARTRE - 92117 CLICHY CEDEX FRANCE
TÉL. +33 (0)1 47 56 76 28
EMAIL : lorealunescoawards@dgc.loreal.com

www.loreal.com
www.forwomeninscience.com

We prefer that you submit your nominations via the online platform. Your login is your email address, your password is FWIS2013. If you have any problems accessing the site please contact loreal.unescoawards@loreal.com

To access the site, please click on the following link:

https://ww5.eudonet.com/app/specif/eudo_00481/UnescoSiteWeb/Authentification.aspx

If you have no other alternative, use the printed Nomination File that you have, and send it in. For multiple nominations, print additional copies from « Nomination File » on this usb key and complete them.

Thank you for your commitment to supporting women who move science forward

FOR WOMEN
IN SCIENCE

United Nations Educational, Scientific and Cultural Organization

L'ORÉAL FONDATION D'ENTREPRISE

Guidelines and Procedure

Background

The L'ORÉAL-UNESCO Awards are attributed each year to distinguish eminent women scientists at the height of their career.

The 2013 Awards will be given to 5 women scientists who have made a significant contribution in the Physical Sciences.

One Award is given per geographic region as follows:

- Africa / Arab States
- Asia (including Oceania and Pacific)
- Europe
- Latin America
- North America (Canada and USA)

Each Award is worth US$ 100,000.

Selection Criteria

The candidate must:

- be recognized for her personal scientific excellence
- be actively involved in scientific research
- be involved in any field of the Life Sciences

Renominations:

If you wish to renominate a candidate you presented in the past, simply provide a completed nomination form and any new publications.

Address all nomination files to:

L'ORÉAL-UNESCO Awards
L'ORÉAL Corporate Foundation
Jennifer CAMPBELL
41, rue Martre - 92117 Clichy Cedex - France

The nomination file must be postmarked no later than May 30, 2012

FOR WOMEN IN SCIENCE

United Nations Educational, Scientific and Cultural Organization

L'ORÉAL FONDATION D'ENTREPRISE

Call for Nominations 2013

Nomination File Contents

Required documents in English, to be attached to the Nomination Form:
(no additional documents will be accepted)

1- Nomination Form, completed and signed by the nominator (please submit only one nomination per form)

2- Curriculum vitae of the candidate (2 pages maximum)

3- Copies of her 5 most important publications

4- A complete list of the candidate's main publications, in order of importance (please do not include the full publications)

5- Nomination Summary form

6- A maximum of 2 letters of recommendation from people at other institutions (one in another country)

Optional Documentation:

A more elaborate description of the candidate's achievements
(no more than 2 pages)

Address all nomination files to:

L'ORÉAL-UNESCO Awards
L'ORÉAL Corporate Foundation
Jennifer CAMPBELL
41, rue Martre - 92117 Clichy Cedex - France

The nomination file must be postmarked no later than May 30, 2012

FOR WOMEN
IN SCIENCE

United Nations Educational, Scientific and Cultural Organization

L'ORÉAL FONDATION D'ENTREPRISE

Call for Nominations 2013

Nomination File Summary

Candidate: Family Name: ..... First Name: .....

Nominator: Family Name: ..... First Name: .....

Citation stating the candidate's contribution justifying the Award in Physical Sciences
(one sentence)

.....

.....

Fields of research: please check all fields and subfields that apply

- **Chemistry**
  - ☐ Theoretical Chemistry
  - ☐ Organic and Inorganic
  - ☐ Analytical Chemistry
- **Physical Chemistry**
  - ☐ Biophysics
  - ☐ Nanosciences
- **Physics**
  - ☐ Aerospace Technology
  - ☐ Astrophysics
  - ☐ Condensed Matter
  - ☐ Engineering Materials
  - ☐ High-Energy Physics
  - ☐ Liquids
  - ☐ Soft Matter
  - ☐ Statistical Physics
  - ☐ Surfaces & Interfaces
- **Other** (please specify)

.....

Summary of the candidate's essential scientific achievements
(250 words maximum)

.....

.....

.....

.....

.....

Please continue and sign on next page

Continued from previous page:

Summary of the candidate's essential scientific achievements

(250 words maximum)

Signature and date: .....

FOR WOMEN
IN SCIENCE

United Nations
Educational, Scientific and
Cultural Organization

L'ORÉAL
FONDATION
D'ENTREPRISE

NOMINATION FORM
L'ORÉAL-UNESCO AWARDS 2013
PHYSICAL SCIENCES

Date received by
the Executive Secretariat .....

LATIN AMERICA

Candidate	Family Name (in capital letters): ..... First Name: .....
	Position or title: .....
	Institution: .....
	Mailing address: ....
	E-mail: ..... Phone Office*: ..... Cell.*: ..... Home Phone*: ..... Fax: .....
Scientific Research justifying the nomination (one sentence to be used as a citation)*	....
Nominator	Family Name (in capital letters): ..... First Name: .....
	Position or title: .....
	Institution: .....
	Mailing address: ....
	E-mail: ..... Phone: ..... Fax: .....

Signature and date: .....

*File will be refused if this information is not given

FOR WOMEN IN SCIENCE

United Nations Educational, Scientific and Cultural Organization

L'ORÉAL FONDATION D'ENTREPRISE

NOMINATION FORM
L'ORÉAL-UNESCO AWARDS 2013
PHYSICAL SCIENCES

Date received by the Executive Secretariat .....

AFRICA AND ARAB STATES

Candidate	Family Name (in capital letters): ..... First Name: .....
	Position or title: .....
	Institution: .....
	Mailing address: ....
	E-mail: ..... Phone Office*: ..... Cell.*: ..... Home Phone*: ..... Fax: .....
Scientific Research justifying the nomination (one sentence to be used as a citation)*	....
Nominator	Family Name (in capital letters): ..... First Name: .....
	Position or title: .....
	Institution: .....
	Mailing address: ....
	E-mail: ..... Phone: ..... Fax: .....

Signature and date: .....

*File will be refused if this information is not given

FOR WOMEN IN SCIENCE

United Nations Educational, Scientific and Cultural Organization

L'ORÉAL FONDATION D'ENTREPRISE

NOMINATION FORM
L'ORÉAL-UNESCO AWARDS 2013
PHYSICAL SCIENCES

Date received by the Executive Secretariat .....

EUROPE

Candidate	Family Name (in capital letters): ..... First Name: .....
	Position or title: .....
	Institution: .....
	Mailing address: ....
	E-mail: ..... Phone Office*: ..... Cell.*: ..... Home Phone*: ..... Fax: .....
Scientific Research justifying the nomination (one sentence to be used as a citation)*	....
Nominator	Family Name (in capital letters): ..... First Name: .....
	Position or title: .....
	Institution: .....
	Mailing address: ....
	E-mail: ..... Phone: ..... Fax: .....

Signature and date: .....

*File will be refused if this information is not given

FOR WOMEN IN SCIENCE

United Nations Educational, Scientific and Cultural Organization

L'ORÉAL FONDATION D'ENTREPRISE

NOMINATION FORM
L'ORÉAL-UNESCO AWARDS 2013
PHYSICAL SCIENCES

Date received by the Executive Secretariat .....

NORTH AMERICA

Candidate	Family Name (in capital letters): ..... First Name: .....
	Position or title: .....
	Institution: .....
	Mailing address: ....
	E-mail: ..... Phone Office*: ..... Cell.*: ..... Home Phone*: ..... Fax: .....
Scientific Research justifying the nomination (one sentence to be used as a citation)*	....
Nominator	Family Name (in capital letters): ..... First Name: .....
	Position or title: .....
	Institution: .....
	Mailing address: ....
	E-mail: ..... Phone: ..... Fax: .....

Signature and date: .....

*File will be refused if this information is not given

FOR WOMEN IN SCIENCE

United Nations Educational, Scientific and Cultural Organization

L'ORÉAL FONDATION D'ENTREPRISE

NOMINATION FORM
L'ORÉAL-UNESCO AWARDS 2013
PHYSICAL SCIENCES

Date received by the Executive Secretariat .....

ASIA (OCEANIA & PACIFIC)

Candidate	Family Name (in capital letters): ..... First Name: .....
	Position or title: .....
	Institution: .....
	Mailing address: ....
	E-mail: ..... Phone Office*: ..... Cell.*: ..... Home Phone*: ..... Fax: .....
Scientific Research justifying the nomination (one sentence to be used as a citation)*	....
Nominator	Family Name (in capital letters): ..... First Name: .....
	Position or title: .....
	Institution: .....
	Mailing address: ....
	E-mail: ..... Phone: ..... Fax: .....

Signature and date: .....

*File will be refused if this information is not given