



GRUBER PRIZE RECIPIENT HISTORY

Cosmology 2000-2009

Year Recipient

- 2000** **Allan R. Sandage**, Staff Astronomer Emeritus, Observatories of Carnegie Institution of Washington D.C., for achievements in observational cosmology, and **Phillip J.E. Peebles**, Einstein Professor of Science, Princeton University, for work in theoretical cosmology
- 2001** **Martin Rees**, Astronomer Royal and Royal Society Research Professor, Cambridge University, for extraordinary intuition in unraveling the complexities of the universe
- 2002** **Vera C. Rubin**, Astronomer, Department of Terrestrial Magnetism of Carnegie Institution of Washington, for preeminent work in the motions of galaxies
- 2003** **Rashid Sunyaev**, Director, Max-Planck Institute fuer Astrophysik, Garching, Germany for pioneering work on the nature of cosmic microwave background and its interaction with intervening matter
- 2004** **Alan H. Guth**, Weisskopf Professor of Physics at MIT, and **Andrei Linde**, Professor of Physics at Stanford University, for their prominent roles in developing and refining the theory of cosmic inflation
- 2005** **James E. Gunn**, Eugene Higgins Professor of Astronomy at Princeton University, for groundbreaking work in all three main areas of astronomy research - theory, observation, and instrumentation
- 2006** **John Mather** and the **NASA Cosmic Background Explorer (COBE) Team**, for studies confirming the universe was born in a hot Big Bang
- 2007** **Saul Perlmutter** and **Brian Schmidt** and their teams: the **Supernova Cosmology Project** and the **High-z Supernova Search Team**, for independently discovering that the expansion of the universe is accelerating
- 2008** **J. Richard Bond**, Director of the Canadian Institute for Advanced Research Cosmology and Gravity Program, for his pioneering contributions to our understanding of the development of structures in the universe
- 2009** **Wendy Freedman**, **Robert Kennicutt**, and **Jeremy Mould**, leaders of the Hubble Space Telescope Key Project on the Extragalactic Distance Scale, for the definitive measurement of the rate of expansion of the universe, Hubble's Constant

Genetics 2001-2009

Year Recipient

- 2001** **Rudolf Jaenish**, Professor of Biology, Whitehead Institute, MIT, for experimental work on genome function and regulation and the insights into the risks of human cloning
- 2002** **H. Robert Horvitz**, Professor of Biology, MIT, Investigator, Howard Hughes Medical Institute, for work in the discovery of how specific genes cause the programmed death of cells
- 2003** **David Botstein**, Director, Lewis-Sigler Institute, Princeton University, for fundamental contributions to modern genetics, including development of methods of mutagenesis of bacteria and yeast and basic principles of the application of genetic polymorphisms for mapping the human genome
- 2004** **Mary-Claire King**, Professor, University of Washington, for locating a gene predisposing to breast cancer

and analyzing genetic contributions to common human diseases and for pioneering work in the use of DNA for identifying human remains

- 2005 Robert Waterston**, Professor, University of Washington School of Medicine, for pioneering work in mapping and sequencing of the genomes of the nematode *Caenorhabditis elegans* and for his pivotal role in the Human Genome Project
- 2006 Elizabeth Blackburn**, Morris Herzstein Professor of Biology and Physiology, University of California, San Francisco, for the discovery of the unique structure and mechanism of replication of telomeres and the function of telomerase
- 2007 Maynard V. Olson**, Professor of Genome Sciences at the University of Washington, for his contributions to genome science
- 2008 Allan C. Spradling**, Director of the Carnegie Institution's Department of Embryology and a leader in developmental genetics and stem cell biology
- 2009 Janet Rowley**, Blum-Riese Distinguished Service Professor at the University of Chicago, founder of the field of cancer cytogenetics and a renowned leader in molecular oncology

Neuroscience 2004-2009

Year Recipient

- 2004 Seymour Benzer**, Professor Emeritus, California Institute of Technology, for seminal contributions to understanding gene structure and the genetic code and genetic studies of behavioral neuroscience, using the fruit fly as a model for studying learning and memory, neural degeneration and aging
- 2005 Eric Knudsen**, Chairman, Department of Neuro-Biology, University of California, San Francisco, and **Masakazu Konishi**, Bing Professor of Behavioral Biology at the California Institute of Technology, whose research established the existence of an auditory map in the brain of the barn owl and led to further comprehension of the sensory processes of the brain
- 2006 Masao Ito**, Professor, Riken Brain Science Institute, Japan, and **Roger Nicoll**, Professor, University of California, San Francisco, for their contributions to the understanding of how the brain works on a molecular level and particularly elucidating memory functions
- 2007 Shigetada Nakanishi**, for pioneering research into communication between nerve cells in the brain
- 2008 John O'Keefe**, Professor of Cognitive Neuroscience at University College London, for his pioneering work concerning the neural basis of complex cognitive functions in freely moving animals
- 2009 Jeffrey Hall**, Professor of Neurogenetics at the University of Maine, **Michael Rosbash**, Professor and Director of the National Center for Behavioral Genomics at Brandeis University, and **Michael Young**, Professor and head of the Laboratory of Genetics at Rockefeller University, for their pioneering discoveries of molecular mechanisms that control circadian rhythms in the nervous system

Justice 2001-2009

Year Recipient

- 2001 Anthony Roy Gubbay**, retired Chief Justice of Zimbabwe, and **Sternford Moyo** for the **Law Society of Zimbabwe**, jointly, for upholding the rule of law and protection of the Constitution of Zimbabwe, in the face of political intimidation and the threat of physical violence
- 2002 Fali Sam Nariman**, member of Parliament and President of the Bar Association of India, for promoting the universal rule of law in a modern era of emerging democracies and supportive systems of jurisprudence
- 2003 Bertha Wilson**, Supreme Court of Canada, for landmark decisions championing minority rights and **Rosalie Silberman Abella**, Ontario Court of Appeal, for a distinguished record of fair decisions and for groundbreaking work in gender and minority equity
- 2004 Arthur Chaskalson** and **Pius Langa**, Constitutional Court of South Africa, jointly, for their efforts in

- establishing the Constitution of South Africa as a model for emerging democracies and countries struggling with regime change
- 2005** **Param Cumaraswamy**, for his work in his native Malaysia upholding the independence of the judiciary, at great personal risk, and for his advocacy of human rights around the world as the United Nations Special Rapporteur
- 2006** **Aharon Barak**, Supreme Court of Israel, for his unflagging dedication to human rights in times of peace and of war, regardless of political considerations, criticisms, and the threat of personal peril
- 2007** **Carmen Argibay of Argentina, Judge Carlos Cerda of Chile, and Mónica Feria of Peru.** Justice Argibay has been a pioneering women's advocate, corruption foe, and participant at the Tokyo Tribunal to adjudicate charges of sexual slavery; Judge Cerda is an independent and courageous member of the Chilean judiciary who pursued Pinochet abuse while the dictator was in power; and Feria is an international lawyer, defender of children's rights and tireless champion of victims of the Fujimori prison massacre of 1992
- 2008** **Jerome Shestack and Thomas Buergenthal**, two human rights advocates who are pioneers in the fight for justice and human rights throughout the world
- 2009** **Bryan Stevenson and The European Roma Rights Centre** for advancing human rights and the cause of justice

Women's Rights 2003-2009

Year Recipient

- 2003** **Navanthem Pillay**, International Criminal Court, the Hague, and former president of the International Criminal Tribunal for Rwanda, for strong leadership in advancing women's rights and for the landmark decision recognizing rape as a weapon of war, and **Pro-Femmes Twese Hamwe**, an umbrella organization for grassroots women's groups working for peace and stability in Rwanda following the 1990's genocide crisis
- 2004** **Sakena Yacoobi** and the **Afghan Institute of Learning**, of which she is president, for providing quality education, human rights training, and health care for women during and following the repressive Taliban regime, both in Afghanistan and to Afghans living in Pakistan
- 2005** **Shan Women's Action Network (SWAN)**, a grassroots women's group, and the umbrella organization of which it is a founding member, the **Women's League of Burma**, for challenging human rights advocacy
- 2006** **Cecilia Medina Quiroga**, judge on the Inter-American Court of Human Rights, Chile, for advancing the rights of women through international law; Luz Méndez for the **Unión Nacional de Mujeres Guatemaltecas**, for peace-building and encouraging equitable political participation in Guatemala; and Julie Su for the **Sweatshop Watch**, for protecting the economic and political rights of migrant workers in the U.S.
- 2007** **Pinar Ilkkaracan** - recognized both individually and for her leadership in two organizations that she co-founded; helped reform Turkish laws to advance gender equality and advocated for sexual and reproductive rights **Women for Women's Human Rights** - played a critical role in advancing women's civil and reproductive rights and raising awareness about gender-based violence **The Coalition for Sexual and Bodily Rights in Muslim Societies** - helped shatter myths about customs and religious practices and united women's rights advocates from 14 countries in an effort to protect women and girls
- 2008** **Yanar Mohammed, Sapana Pradhan Malla, and Nadera Shalhoub-Kevorkian**, three activists devoted to enhancing women's rights and empowering women under the most difficult conditions of armed conflict and war
- 2009** **Leymah Roberta Gbowee** and the **Women's Legal Centre**, who have helped to build peace and advance rights for African women

The Gruber International Prize Program

The International Prize Program honors contemporary individuals in the fields of Cosmology, Genetics, Neuroscience, Justice and Women's Rights, whose groundbreaking work provides new models that inspire and

enable fundamental shifts in knowledge and culture. The Selection Advisory Boards seek to honor individuals whose contributions in their respective fields advance our knowledge, potentially have a profound impact on our lives, and, in the case of the Justice and Women's Rights Prizes, demonstrate courage and commitment in the face of significant obstacles.

Media Note:

If you have an interest in a specific award category and the recipient of the prize for that category, contact Alyson O'Mahoney at (914) 241-0086, ext 13, or aomahoney@robinleedyassociates.com