



GRUBER PRIZE RECIPIENT HISTORY

Cosmology 2000-2006

Year Recipients

- 2000 **Dr. Allan R. Sandage**, Staff Astronomer Emeritus, Observatories of Carnegie Institution of Washington D.C., for achievements in observational cosmology, and **Dr. Phillip J.E. Peebles**, Einstein Professor of Science, Princeton University, for work in theoretical cosmology
- 2001 **Sir Martin Rees**, Astronomer Royal and Royal Society Research Professor, Cambridge University, for extraordinary intuition in unraveling the complexities of the universe
- 2002 **Dr. Vera C. Rubin**, Astronomer, Department of Terrestrial Magnetism of Carnegie Institution of Washington, for preeminent work in the motions of galaxies
- 2003 **Dr. 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 **Dr. Alan H. Guth**, Weisskopf Professor of Physics at MIT, and **Dr. Andrei Linde**, Professor of Physics at Stanford University, for their prominent roles in developing and refining the theory of cosmic inflation
- 2005 **Dr. 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 **Dr. John Mather** and the **NASA Cosmic Background Explorer (COBE) Team**, for studies confirming the universe was born in a hot Big Bang





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Genetics 2001-2006

Year Recipients

- 2001 **Dr. 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 **Dr. 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 **Dr. 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 **Dr. 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 **Dr. 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 **Dr. 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





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Neuroscience 2004-2006

Year Recipients

- 2004 **Dr. 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 **Dr. Eric Knudsen**, Chairman, Department of Neuro-Biology, University of California, San Francisco, and **Dr. 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 **Dr. Masao Ito**, Professor, Riken Brain Science Institute, Japan, and **Dr. 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





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Justice 2001-2006

Year Recipients

- 2001 **Retired Chief Justice** of Zimbabwe, **Anthony Roy Gubbay**, 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, Esq.** 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 **Madame Justice Bertha Wilson**, Supreme Court of Canada, for landmark decisions championing minority rights and **Justice Rosalie Silberman Abella**, Ontario Court of Appeal, for a distinguished record of fair decisions and for groundbreaking work in gender and minority equity
- 2004 **Retired Chief Justice Arthur Chaskalson** and **Deputy Chief Justice 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 **Dató Param Kumaraswamy, Esq.**, 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 **Retired President 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





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Women's Rights 2003-2006

Year Recipients

- 2003 **Honorable 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 **Professor 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 **Honorable 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.

