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REQUEST FOR NOMINATION OF CANDIDATES FOR THE 2008 (24th) JAPAN PRIZE

November 2006

Dear Sir/Madam,

On behalf of the Science and Technology Foundation of Japan, I have the honor of inviting you to submit a nomination for the award of the Japan Prize for 2008.

The Japan Prize, launched in 1985, is an international prize awarded to scientists and researchers who have made original and outstanding achievements in science and technology. The laureates are recognized for contributing not only to the progress of science and technology, but also to the peace and prosperity of mankind.

Every year two categories of research have been selected for the award of the Japan Prize: in principle the Prize is awarded to one person in each category.

Each Japan Prize laureate receives a certificate of merit and a commemorative medal. A cash award of ¥50 million is also presented for each prize category.

The selected categories for the 2008 Japan Prize are "Information Communication Theory and Technology" and "Medical Genomics and Genetics".

To ensure that all the best-qualified candidates in the selected categories are identified, we are asking eminent scientists throughout the world to nominate candidates. Your nominations will be highly appreciated and be given serious consideration by the Japan Prize Selection Committee.

We hope to receive your nominations not later than Wednesday, 28 February 2007.

Nominations received after this date cannot be considered by the Japan Prize Selection Committee.

The guidelines for nominating candidates and a nomination form are enclosed. If you decide not to recommend a candidate this time, we would still appreciate your informing us.

Also, please let us know about yourself by filling out the attached form for our reference.

Laureates of the Japan Prize for 2008 will be announced in January 2008, and the award ceremony will be held in Tokyo in April 2008.

We assure you that this matter will be treated as highly confidential, and we ask you to reciprocate by respecting confidentiality on your side.

Thank you for your cooperation.

Prof. HIROYUKI YOSHIKAWA Dr.Eng.

H Yeshi kawa

Chairman

The Science and Technology Foundation of Japan

GUIDELINES FOR NOMINATING CANDIDATES FOR THE 2008 (24th) JAPAN PRIZE

1. Relevant Scientific Categories

The Japan Prize for 2008 will be awarded in the following two categories of research.

(1) Information Communication Theory and Technology

The advance and wide-spread use of computers and networks has brought about a cyberspace heretofore unknown to humankind. It has made the social structure flexible and promoted borderless economic activities, extensively widening the living space of people. Based on this trend, the 2008 Japan Prize will be awarded to a researcher who has made a significant contribution to the field of information communication theory and technology.

This includes theory of computation, algorithm, computer software, computer systems, computer architecture, human interface, Internet, search technology, information security, visualization technology, information theory, data compression, cryptology, coding theory, radio and optical communication systems, wireless communication systems, and quantum communication.

(2) Medical Genomics and Genetics

Recent advances in genome science and molecular genetics that disclosed 3 billion nucleotides of human genome have led us to a better understanding of molecular mechanisms underlying various biological phenomena. Particularly, they have contributed to the discovery of genes responsible for or susceptible to various diseases as well as those related to efficacy or adverse reactions of drugs.

The Japan Prize for 2008 will be awarded to a scientist who made outstanding achievements in the field of medical genomics and genetics, including establishment of fundamental principle for genetic/genomic analysis, construction of basic infrastructure like genetic maps and genomic sequences, and development of essential technologies.

2. Eligibility

Candidates for the Prize must be <u>living persons</u>. There are <u>no restrictions as to nationality, profession, age or sex.</u> A self-nomination cannot be accepted.

The Japan Prize is intended, in principle, to recognize advanced breakthroughs in science and technology. However, work done in the past may be selected for the award if its significance has recently been appreciated.

The Prize is in principle awarded to individuals. However, in exceptional cases, it may be awarded to a group consisting of not more than five people. When a group has been proposed, they will be treated as one candidate.

3. Remarks on Nomination Form and other points

(1) Nomination Form

- Please use one sheet for candidate in each field.
- Please be so kind as to print out your nomination and send it with your signature.
- Please give the name of group leader and the members in the case of group recommendation.
- For our selection committee's reference, please advise us of the candidate's achievements, professional career and publications. However, please note that these materials would not be returned.

(2) Nominator's Data

- Even if you are not proposing a candidate, please return the sheets marked Nominator's Data with your personal data, if included.

(3) Other Points

- We will send format of Nomination Form and Nominator's Data in MS Word, if you wish. However, please be sure to send the originals by mail as your official nomination with your signature. (E-mail: info@japanprize.jp)

Confidential

(Please type or print)

2008 (24th) JAPAN PRIZE NOMINATION FORM

FOR OFFICIAL USE ONLY	Code:
Received Date	& No.:

	ATION FORM		
Name			
Last:	First:	Middle:	
Organization and Po	osition		
Office Address	Т	el:	
	F	E-mail:	
Home Address		'el:	
		-mail:	
8	nformation Communication' Medical Genomics and Genet		
Contribution: (The ma	ain theme)		
(Please write from 10 word	s by 20 words)		
Reasons for your no	omination		

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^{*}We would appreciate it if you could attach a list of the candidate's achievements, publications and any other relevant information. However, please note that these materials would not be returned.

NOMINATOR'S (YOUR) DATA

Even if you are not nominating a candidate for the 2008 (24th) Japan Prize, we would be grateful if you would complete this page only and return it to us. It will be of great value to us in keeping our list of nominators up-to-date. An envelope is provided for your reply.

Name	-	
Last:	First:	Middle:
Signature		
Home Address		
		Tel:
		E-mail:
Organization and Position		
Office Address		
		Tel:
		E-mail:

We would also appreciate your suggestions or comments on the Japan Prize.

PROFILES OF JAPAN PRIZE LAUREATES

	CATEGORY and ACHIEVEMENT	NAME	COUNTRY
1985 (1st)	Information and Communications Outstanding achievement in the field of electronics and communications technologies	Dr. John R. Pierce	U.S.A.
	Biotechnology Outstanding achievement in basic theory in the field of immobilized enzymes and their practical applications	Dr. Ephraim Katchalski-Katzir	Israel
1986 (2nd)	Materials Science and Technology Pioneering contributions to materials science with impact on new materials technology such as amorphous solids	Dr. David Turnbull	U.S.A.
1980 (2Hu)	Medical Technology Research and development of artificial organs and their relevant technology	Dr. Willem J. Kolff	U.S.A.
1987 (3rd)	Improvement of Biological Functions Development of the IR8 and IR36 strains for rice breeding strategies geared to the tropical and subtropical zones	Dr. Henry M. Beachell Dr. Gurdev S. Khush	U.S.A. India
1507 (SIG)	Electro-Optics Realization of the world's first laser	Dr. Theodore H. Maiman	U.S.A.
	Energy Technology Establishment of fast breeder reactor technology	Dr. Georges Vendryes	France
1988 (4th)	Preventative Medicine The eradication of Smallpox	Dr. Donald A. Henderson Dr. Isao Arita Dr. Frank Fenner	U.S.A. Japan Australia
	Preventative Medicine Discovery of the AIDS causing virus and development of diagnostic methods	Dr. Luc Montagnier Dr. Robert C. Gallo	France U.S.A.
1989 (5th)	Environmental Science and Technology Studies on the mechanisms of stratospheric ozone depletion by chlorofluorocarbons	Dr. Frank Sherwood Rowland	U.S.A.
Medicinal Science Pioneering contributions to the syntheses of prostaglandins and their related compounds which are of great therapeutic value		Dr. Elias James Corey	U.S.A.
1990 (6th)	Technology of Integration - Design, Production and Control Technologies Establishment of an academic field named Artificial Intelligence and the proposal of fundamental theories in that field	Dr. Marvin Minsky	U.S.A.
100 Z	Earth Science Initiation of the theory of plate tectonics and contributions to its development	Dr. William Jason Morgan Dr. Dan Peter McKenzie Dr. Xavier Le Pichon	U.S.A. U.K. France
1991 (7th)	Applied Mathematics Contributions to analysis and control of distributed systems, and to promotion of applied analysis	Dr. Jacques - Louis Lions	France
Imaging Techniques in Medicine Development of ultrasound imaging in medicine		Dr. John Julian Wild	U.S.A.
1992 (8th)	Science and Technology of Material Interfaces Contributions to the new development of the chemistry and physics of solid surfaces	Prof. Dr. Gerhard Ertl	Germany
1332 (dili)	Science and Technology for Biological Production Discovery of method of the cryopreservation of semen and embryos in farm animals	Prof. Ernest John Christopher Polge	U.K.
1993 (9th)	Safety Engineering and Disaster Mitigation Development of modern seismology and advancement of international cooperation in disaster science	Dr. Frank Press	U.S.A.
1993 (9th)	Molecular and Cellular Technology in Medicine Development of the polymerase chain reaction	Dr. Kary B. Mullis	U.S.A.
1994	Aerospace Technologies Inspirational leadership in unmanned lunar and planetary exploration, and for pioneering achievements in the development of spacecraft and deep space communications	Dr. William Hayward Pickering	U.S.A.
(10th Anniversary)	Psychology and Psychiatry Discovery of dopamine as a neurotransmitter and clarification of its role in mental and motor functions and their disorders	Dr. Arvid Carlsson	Sweden
1995 (11th)	Materials Processing Technologies Outstanding contributions to research and practical applications of light emitting diodes and lasers through pioneering achievements in the understanding of physical principles and in the process technology of intermetallic compound semiconductors	Dr. Nick Holonyak, Jr.	U.S.A.
	Science and Technology for Agriculture, Forestry and Fishery which conserves the Environment Pioneer contributions in the development of integrated pest management by the sterile insect release method and other biological approaches	Dr. Edward F. Knipling	U.S.A.

	CATEGORY and ACHIEVEMENT	NAME	COUNTRY
1996 (12th)	Information, Computer and Communication Systems For pioneering research on wide-band, low-loss optical fiber communications	Dr. Charles K. Kao	U.S.A.
(Latin)	Neuroscience Elucidation of the functional principles and neural mechanisms of the cerebellum	Dr. Masao Ito	Japan
1997 (13th)	Biotechnology in Medicine Contribution to Establishment of Fundamental Concept on Causes of Cancer	Dr. Takashi Sugimura Dr. Bruce N. Ames	Japan U.S.A.
1337 (1341)	Systems Engineering for an Artifactual Environment Establishment of the Robot Industry and Creation of a Techno-Global Paradigm	Dr. Joseph F. Engelberger Dr. Hiroyuki Yoshikawa	U.S.A. Japan
1998 (14th)	Generation and Design of New Materials Creating Novel Functions For the creation and realization of the concept of man-made superlattice crystals which lead to generation of new materials with useful applications	Dr. Leo Esaki	Japan
1990(14ui)	Biotechnology in Agricultural Sciences Establishment of the theory and method of the production of transgenic plants	Pro.Dr. Jozef S. Schell Dr. Marc C. E. Van Montagu	Belgium
1999 (15th)	Information Technologies Establishment of Coding Theory for Reliable Digital Communication, Broadcasting and Storage	Dr. W. Wesley Peterson	U.S.A.
1999 (15th)	Molecular Recognition and Dynamics in Bioscience Elucidation of the three-dimensional structures of class I and class II human histocompatibility antigens and their bound peptides	Dr. Jack L. Strominger Dr. Don C. Wiley	U.S.A.
2000 (16th)	City Planning Establishment of an Ecological City Planning Process and Proposal of a Land Use Evaluation System	Prof. Ian L. McHarg	U.S.A.
2000 (1011)	Host Defense Discovery of Immunoglobulin E and mechanisms of IgE-mediated allergic reactions	Dr. Kimishige Ishizaka	Japan
2001 (17th)	Science and Technology of Environment Conscious Materials Discovery of environmentally benign electrode materials for high energy density rechargeable lithium batteries	Dr. John B. Goodenough	U.S.A.
2001 (17111)	Marine Biology Contribution to the development of Biological/Fisheries Oceanography and for conservation of fishery resources and marine environment	Dr. Timothy R. Parsons	Canada
9009 (19th)	Computing and Computational Science and Engineering Advancement of Civilization through Invention, Implementation and Deployment of the World Wide Web	Dr. Timothy John Berners-Lee	U.K.
2002 (18th)	Developmental Biology Pioneering work on mammalian embryonic development	Dr. Anne McLaren, DBE, FRS, FRCOG Dr. Andrzej K. Tarkowski	U.K. Poland
2003 (19th)	Science and Technology of Complexity Creation of Universal Concepts in Complex Systems—Chaos and Fractals	Dr. Benoit B. Mandelbrot Dr. James A. Yorke	U.S.A.
2005(1911)	Visualizing Techniques in Medicine Discovery of the principle for functional magnetic resonance imaging	Dr. Seiji Ogawa	Japan
	Chemical Technology for the Environment Pioneering Work on Photochemical Catalysis and Its Application for the Environment	Dr. Kenichi Honda Dr. Akira Fujishima	Japan
2004 (20th Anniversary)	Food Production Based on Ecosystem Concepts Contributions to the Understanding of Shelf Ecosystems and Their Sustainable Utilization	Dr. Keith J. Sainsbury	New Zealand
	Science and Technology for Conservation of Biodiversity Observational, Experimental and Theoretical Achievements for the Scientific Understanding and Conservation of Biodiversity	Sir John H. Lawton	U.K.
2005 (21st)	Information and Media Technology Pioneering Contributions to Natural Language Processing and Intelligent Image Processing	Dr. Makoto Nagao	Japan
2003 (21st)	Cell Biology Fundamental Contribution in Elucidating the Molecular Mechanisms of Cell Adhesion	Dr. Masatoshi Takeichi Dr. Erkki Ruoslahti	Japan U.S.A.
2006 (22nd)	Global Change For pioneering research on atmospheric structure and composition based on his satellite observation technology and for promotion of international assessments of climate change	Sir John Houghton CBE FRS	U.K.
	The Development of Novel Therapeutic Concepts and Technologies The Discovery of the Statins and their Development	Dr. Akira Endo	Japan
2007 (23rd)	Innovative Devices Inspired by Basic Research	Laureates of 2007(23rd) J	APAN PRIZE
2007 (23IU)	Science and Technology of Harmonious Co-Existence	will be announced on 11	

Request to fill in Research Field List.

Thank you for your continuing support of the Japan Prize which is sponsored by the Japan Science and Technology Fopundation.

We are endeavouring to obtain as many recommendations as possible from key figures with a view to further developing the Japan Prize.

To this end we are writing to request that you enter below your own field of research as indicated.

The information that you provide will be kept strictly confidential.

Notes:

- 1. The field of research is one in which you are currently conducting research. Please place a square black bullet point within the box that applies to your field (in the Research Field bordered by bold lines) (multiple entries allowed)
- 2. The list of fields is not necessarily comprehensive so if you find that there is no exact match please enter the field that is the closest.

 Please use the sub-categories column as a reference tool.
- 3. Please fax or post your reply.
- 4. Only record your address if it differs from the address label.
- 5. If you send multiple pages, you only need to record your name, address and ID number on the first page.

To: The Science and Technology Foundation of Japan

ID No. ** Please fill in the five-	digit Number shown below your add		of Pages sent. Page /
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【Comprehensive Discip	ines and Combined New Disciplines	<u>]</u> 1	
Field	Sub-Category	Field	Sub-Category
	Basic Informatics Software		Environmental Dynamic Analysis Environmental Impact Evaluation/ Environment Policy
	Computer Systems & Networks	Environmentology	Radiation/ Chemical Substance Effects Science
	Media Information Science/ Databases		Environmental Technology/ Environmental Materials
O1	Intelligent Informatics	Nano/Micro Science Social/Safety System Science	Nano Structural Science
	Perceptual Information Processing/ Intelligent Robotics		Nano Materials/ Nano Bioscience
	Sensitivity Informatics/ Soft Computing		Micro/Nano Devices
	Information and Library Science/ Humanistic Social Informatics		Social System Engineering/ Safety Systems
	Cognitive Science		Natural Disaster Science
	Statistical Science	Genome Science	Basic Genome Science
	Bio and Life Informatics General Neuroscience	 	Applied Genome Science
П	Neuroanatomy/ Neuropathology	15 Biomolecular Science	
O2 Neuroscience	Neurochemistry/ Neuropharmacology	☐ Resource Conservation	
	Nerve/Muscular Physiology	16 Studies	
☐ Laboratory Animal 03 Studies		Gender	
☐ Human Medical O4 Engineering	Biomedical Engineering/ Biomaterials Science Medical Systems Rehabilitation Science/ Welfare Engineering		
☐ Health & Sports O5 Science	Physical Education Sports Science Applied Health Science		
Human Life Science	General Human Life Science Dietary Habits Studies		
☐ Science Education/ 07 Educational Technology	Science Education		
Scientific Sociology/ History of Science & Technology	Lauvacionai recrinology		
Cultural Asset Studies			
Geography			

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Science and Technologic	ogy Fields]2		
Field	Sub-Category	Field	Sub-Category
	Algebra		Appplied physical Properties/ Crystal Engineering
Mathematics	Geometry General Methematics (including Probability Theory and Statistical Mathematics)	☐ Applied Physics / O9 Basic Engineering	Thin film/Surface/Interfacial Physical Properties Applied Optics/ Quantum Optical Engineering
	Basic Analysis	11	General Applied Physics
П	Global Analysis		Basic Engineering Machine Materials/ Material Mechanics
O2 Astronomy			Production Engineering/ Processing Studies
	Elementary Particle/Atomic Nucleus/Cosmic Ray/ Space Physics	☐ Mechanical Engineering	Design Engineering/Machine Functional Elements/ Tribology
	Physics I	10 Mechanical Engineering	Fluidics
Dhysics	Physics II Mathematical Physics / Basic Physical Properties		Thermal Engineering Machine Mechanics/Control
00	Atomic/Molecular/Qauntum Electronics/ Plasma		Intelligent Mechanics/ Mechanical Systems
	Biophysics/ Chemical Physics		Electric Power Engineering/ Electrical Equipment Engineering
	Solid State Earth And Planetary Physics	☐ Electrical and Electronic 11 Engineering	Electronic/Electric Materials Engineering
	Meteorology/ Marine Physics/ Limnology Upper Atmosphere Physics		Electronic Devices/ Electronic Equipment Communication/Network Engineering
☐ Earth and Planetary	Geology		Systems Engineering
04 Science	Stratigraphy/ Paleontology		Measurement Engineering
	Petrology/ Minerology/ Ore Deposit Science		Control Engineering
	Geochemistry and Astrochemistry		Givil Engineering Materials/ Building/ Construction Management
O5 Plasma Science		Civil Engineering	Structural Engineering/ Earthquake Engineering/ Maintenance Management Engineering Geotechnical (Soil) Engineering
	Physical Chemistry	12	Water Control Science
Basic Chemistry	Organic Chemistry		Traffic Engineering/ Land Planning
	Inorganic Chemistry		Civil Engineering Environmental Systems Architectural Structures/Materials
	Analytical Chemistry Synthetic Chemistry	П	Architectural Structures/ Materials Architectural Environment/Equipment
Complex Chemistry	Plymer Chemistry	13 Architectural Engineering	Town Planning/ Architectural Planning
07 Complex Chemistry	Functional Material Chemistry		Architectural History/Design
	Environmental Chemistry Body-related Chemistry		Metal Physical Properties Inorganic Materials Physical Properties
<u> </u>	Functional Materials and Devices	☐ Materials Engineering	Composite Materials/Physical Properties
Materials Chemistry	Organic Industrial Materials	14	Structural/Functional Materials
08	Inorganic Industrial Materials		Material Processing/Treatment Metallic Production Engineering
	Polymer/Textile Materials	· · · · · · · · · · · · · · · · · · ·	Chemical Engineering Physical Properties/
		П	Transfer Operation/ Unit Operation
		☐ Process Engineering	Reaction Engineering/ Process Systems
			Catalytic/ Resource Chemical Processes Biofunction/ Bioprocess
		······	Aerospace Engineering
			Ship Marine Engineering
		Integrated Engineering	Earth/Resource Systems Engineering Recycling Engineering
		16	Nuclear Fusion
			Atomic Engineering
			Energy Engineering

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【Biosystems】 3			
Field	Sub-Category	Field	Sub-Category
	Heredity/ Genome Dynamics		Chemical Pharmacy
	Living organisms/ Environment		Physical Pharmacy
D Barria Birlana	Plant Physiology/Molecules	Pharmacy	Biological Pharmacy
O1 Basic Biology	Form/ Structure	12 Pharmacy	Drug Development Chemistry
	Animal Physiology/Behaviour		Environmental Agriculture
	Biodiversity/ Classification		Medical Pharmacy
	Structural Biochemistry		General Pharmacy (including Histology and Embryology)
	Functional Biochemistry		General Physiology
Biological Science	Biophysics		Environmental Physiology (Including Sports Medicine and Nutritional Physiology)
02 -	Molecular Biology	☐ Basic Medicine	General Pharmacology
	Cell Biology		General Medical Chemistry
	Developmental Biology		Pathological Medical Chemistry
	Evolutionary Biology	13	Human Genetics
☐ Anthronology	Anthropology		Human Pathology
O3 Anthropology	Physiological Anthropology		Experimental Pathology
	Breeding Studies		Parastitology (including Sanitary Zoology)
П	Agronomy/ Weed Science		Bacteriology (including mycology)
LI Agriculture 04	Horticulture/ Landscaping		Virology
	Plant Pathology		Immunology
	Applied Entomology	In	Medical Sociology
	Plant Nutrition Science / Soil Science	Boundary Medicine	Applied Pharmacology
П	Applied Microbiology		Pathological Examination Studies
O5 Agricultural Chemistry	Applied Biochemistry		Hygienics
	Bio-production Chemistry/ Bio-organic Chemistry	Social Medicine	Public Health/ Health Science
	Food Science		Forensic Medicine
Forestry	Forestry/ Forest Engineering		General Internal Medicine (including Psychosomatic Medincine)
	Timber Production Science/ Wood Engineering		Internal Medicine-Digestive Organs
Fisheries Science	General Fisheries Science		Internal Medicine-Circulatory Organs
	Fisheries Chemistry	1	Internal Medicine-Respiratory Organs
O8 Agronomy			Renal Internal Medicine Internal Medicine-Neurology
_	Agricultural Civil Engineering/ Farm & Village Planning		Metabolic Science / Metabolomics
U Agricultural Engineering	Agricultural Environmental Engineering	Clinical Internal Medicine	Endocrinology
	Agricultural Information Engineering	16	Hematology
	Animal Studies/ Grassland Studies		Collagen Disease / Allergies / Infectious Disease Medicine
	Aliad Animal Sais-sa		
☐ Animal Husbandry and	Applied Animal Science		Pediatrics
10 Veterinary Science	Basic Veterinary Science/ Basic Animal Husbandry		Embryonic/Neonatal Medicine
	Applied Veterinary Science		Dermatology
	Applied Veterinary Science Clinical Veterinary Science		Psychoneurosis Science
П	Similar Focorniary Ocionos		Radiation Science
11 Boundary Agriculture			

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【Biosystems 】 3

[Diosystems] O	
Field	Sub-Category
	General Surgery
	Digestive Organ Surgery
	Thoracic Surgery
	Neurosurgery
	Orthopedic Surgery
	Anesthesiology/ Resuscitation Studies
Clinical Surgery	Urology
17	Obstetrics and Gynecology
	Otorhinolaryngology
	Ophthalmology
	Pediatric Surgery
	Plastic Surgery
	Emergency Medicine
	Morphological Basic Dentistry
	Functional Basic Dentistry
	Pathological Dentistry/ Odontological Radiology
	Conservative Dentistry
Dentistry	Prosthetic Dentistry
16	Surgical Dentistry
•	Orthodontic/Pediatric Dentistry
	Periodontal Dentistry
	Social Dentistry
П	Basic Nursing Science
Nursing Science	Clinical Nursing Science
19	Community/Aged Nursing Science