

# TAKEDA SCIENCE FOUNDATION



Since 1963





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## I . PURPOSE

The Takeda Science Foundation was established on September 30, 1963 with an endowment from Takeda Chemical Industries, Ltd.\*, in order to promote and contribute to the advancement of science and culture around the world.

\* The English name was changed to Takeda Pharmaceutical Company Limited in June 2004.

## II . HISTORY

1953 : At the suggestion of his predecessor, Chobei Takeda V (Wakei Takeda), the President of Takeda Chemical Industries, Ltd., Chobei Takeda VI, commemorated the 170<sup>th</sup> anniversary of the company's founding by establishing an award for outstanding achievement in natural sciences. The first Takeda Prize for Medical Science was awarded in 1954.

1963 : The Takeda Science Foundation was established. The Foundation took over the presentation of the Takeda Prize for Medical Science, and started research grants for Japanese scientists and fellowships for foreign medical doctors. These activities were made possible by an endowment from Takeda Chemical Industries, Ltd.

1977 : In June, Chobei Takeda VI donated to the Foundation most of his family's valuable collection of ancient Chinese and Japanese books on Materia Medica and related subjects. The 3,825 books include three National Treasures and six Important Cultural Assets.

1978 : In November 1977 and March 1978, Takeda Chemical Industries, Ltd. donated 17,325 additional ancient Chinese and Japanese books on similar subjects. These generous contributions formed the basis of the Kyo-U Library to preserve valuable resources in Asian medicine and related disciplines. The library was established and opened to the public on April 28, 1978.

1980 : Upon the death in 1980 of Akio Takeda, Vice President of Takeda Chemical Industries, Ltd. at the time, the Foundation received his bequest of ten million shares of Takeda stock, giving it a solid financial base. In November, the Foundation decided to increase research grants for scientists and research institutes and to sponsor the Takeda Science Foundation Symposium on Bioscience.

1982 : The 1<sup>st</sup> Takeda Science Foundation Symposium on Bioscience was held in October 1982.

1992 : Shigeko Takeda, wife of Chobei Takeda VI, donated to the Foundation 4,258 documents, including the Takeda manuscripts, the Murakami manuscripts, the Senshin collection, and the Haneda collection.

1998 : The 20<sup>th</sup> anniversary commemorative symposium of Kyo-U Library was held. Since then, a special study session has been held twice a year: one in spring and the other in autumn.

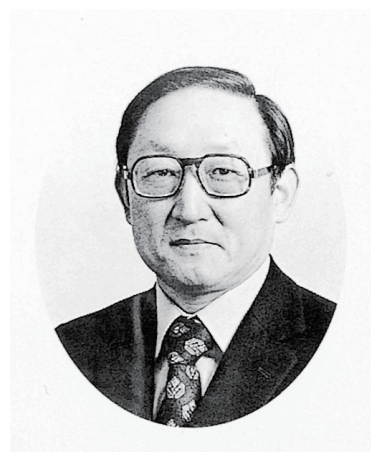
1999 : The Foundation established a new fund (Ho-Sho Fund) for the encouragement of research into overcoming diseases of the cardiovascular system, which tend to increase with age.



Chobei Takeda V (Wakei Takeda)



Chobei Takeda VI



Akio Takeda

2001 : The Foundation decided to sponsor the Takeda Science Foundation Symposium on PharmaSciences to commemorate the start of the new millennium. The first symposium was held in October 2001.

The 20<sup>th</sup> anniversary of fellowships to Chinese medical doctors was celebrated in Beijing.

2002 : The 30<sup>th</sup> anniversary of fellowships to Filipino and Korean medical doctors was celebrated in Manila and Seoul, respectively. The 20<sup>th</sup> anniversary of fellowships to Indonesian medical doctors was celebrated in Jakarta.

2004 : The Foundation celebrated the 50<sup>th</sup> anniversary of the Takeda Prize for Medical Science. A special ceremony to present the Prize was held in Tokyo in November, followed by a commemorative lecture.

The 40<sup>th</sup> anniversary of fellowships to Taiwanese medical doctors was celebrated in Taipei and Kaohsiung. The cumulative number of foreign fellowship researchers exceeded 1,000.

2005 : To commemorate the 100<sup>th</sup> year since Chobei Takeda VI's birth and the 25<sup>th</sup> year since Akio Takeda's passing away, Research Grants bearing a memory of Takeda Family were introduced and an apricot tree-planting ceremony was held.

The 40<sup>th</sup> anniversary of fellowships to Thai medical doctors was celebrated in Bangkok.

2006 : With the aim of further enhancing the Fellowship Program for Overseas Medical Doctors and Researchers, it was decided to hold a meeting with the selection committee members in the seven designated countries, and a meeting was first held in Beijing (December) with the China selection committee members.

- 2008 : Ho-Sho Fund, established in 1999 for the encouragement of research, completed its 10-year program as initially scheduled. To replace it, the Foundation established a new program “Takeda Hosho Grants for Research in Medicine” for leading medical researchers who have newly launched their own laboratories (eligible within three years since launch).  
The 10<sup>th</sup> anniversary of fellowships to Vietnamese medical doctors was celebrated in Hanoi.
- 2010 : The Foundation launched a new program “Visionary Research Grants” for medical researchers. This program aims to support visionary research that could lead to groundbreaking results.  
The Foundation was approved as a Public Interest Incorporated Foundation by the Japanese Cabinet. The English name “Takeda Science Foundation” remains unchanged.  
The cumulative amount of Research Grants exceeded 10 billion yen.
- 2011 : In addition to the fellowship program for overseas medical doctors, a scholarship program for Japanese medical students studying basic medical sciences in PhD courses was approved by the Japanese Cabinet and preparations were started. The Foundation donated 100 million yen to support the reconstruction from the Great East Japan Earthquake.  
The 40<sup>th</sup> and 30<sup>th</sup> anniversaries of fellowships to Filipino and Chinese medical doctors were celebrated in Manila and Chengdu, respectively.
- 2012 : The 1<sup>st</sup> award ceremony of scholarships to Japanese medical students studying basic medical sciences in PhD courses was held in Kyoto in May.  
The 40<sup>th</sup> anniversary of fellowships to Korean medical doctors was celebrated in Seoul.  
The cumulative number of Research Grants exceeded 5,000.
- 2013 : The 30<sup>th</sup> anniversary of fellowships to Indonesian medical doctors was celebrated in Jakarta.  
The office of the Takeda Science Foundation was moved from Juso to Doshomachi in Osaka city. The 50<sup>th</sup> anniversary of the establishment of the Takeda Science Foundation was celebrated in Osaka in September.
- 2014 : The 50<sup>th</sup> anniversaries of fellowships to Taiwanese and Thai medical doctors and researchers were celebrated in Taipei/Kaohsiung and Bangkok, respectively.
- 2015 : The cumulative amount of Research Grants exceeded 20 billion yen.
- 2016 : The total number of foreign fellowship researchers since 1963 exceeded 1,500. The 45<sup>th</sup> anniversary of fellowships to Filipino medical doctors and researchers was celebrated in Manila.
- 2017 : The cumulative number of medical graduate students who got PhD degrees by using scholarships for medical students studying basic medical sciences in PhD courses exceeded 10.
- 2018 : The 20<sup>th</sup> anniversary of fellowships to Vietnamese medical doctors and researchers was celebrated in Hanoi.

- 2019 : The cumulative amount of Research Grants exceeded 30 billion yen.  
The Foundation started a new fellowship program for young Japanese MDs & PhDs studying abroad.  
The 20<sup>th</sup> Symposium on Bioscience was held.  
The cumulative number of medical graduate students who have received scholarships for studying basic medical sciences exceeded 100.  
The secretary of the Fellowship program for Overseas Medical Doctors and Researchers in the Philippines was entrusted to the Philippine Medical Association.
- 2020 : The 10<sup>th</sup> Symposium on PharmaSciences was held.
- 2021 : The Foundation launched a new program “High-risk Emerging Infectious Diseases Research Grants” based on the lessons from the Covid-19 pandemic.
- 2022 : The cumulative number of Research Grants exceeded 10,000.  
The 10<sup>th</sup> anniversary of scholarships for medical students studying basic medical sciences in PhD courses was celebrated in Tokyo.
- 2023 : The 40<sup>th</sup> anniversary of fellowships to Indonesian medical doctors and researchers was celebrated in Jakarta.  
The 50<sup>th</sup> anniversary of fellowships to Korean medical doctors and researchers was celebrated in Seoul.

### III . ENDOWMENTS

Based on the contributions from Takeda Pharmaceutical Company Limited, the Takeda family, and other sources, the endowments as of the end of March 2023 were 72,238 million yen.

### IV . MAIN ACTIVITIES

#### (1) The Takeda Prize for Medical Science

The Foundation honors medical doctors and researchers for their outstanding achievements in medical science with the Takeda Prize for Medical Science. This prize was first awarded in 1954 by Takeda Chemical Industries, Ltd. to commemorate the company’s 170<sup>th</sup> anniversary. Since its founding in 1963, the Takeda Science Foundation has taken over the presentation of the award. Each year, candidate medical doctors and researchers are recommended by nominators who are designated by the Foundation, and two prize winners are selected among the candidates by the screening committee.

At a ceremony held in November, each winner receives a certificate of commendation, a gold medal, and a monetary award of 20 million yen. As of the end of March 2023, the number of prize winners totaled 137 including Nobel laureates, Dr. Tasuku Honjo and Dr. Shinya Yamanaka, who received this honor in 1988 and 2008, respectively.



Certificate of the Takeda Prize for Medical Science



Gold Medal of the Takeda Prize for Medical Science

## (2) Research Grants

The Takeda Science Foundation has awarded research grants for original and cutting-edge medical and life science research conducted in Japan. Since its establishment in 1963, the Foundation has provided 10,183 grants to a total value of 36.8 billion yen as of the end of March 2023.

With the newest program “High-Risk Emerging Infectious Diseases Research Grants” launched in 2021, the Foundation currently offers the following 9 research grant programs, covering a broad range of research project types.

(Numbers in parentheses indicate starting year.)

### 1. Takeda Hosho Grants for Research in Medicine (2008)

Granted to medical researchers who have launched their own laboratories in universities or in research institutions within the past three years and are leading worldwide cutting-edge research.

### 2. High-Risk Emerging Infectious Diseases Research Grants (2021)

Granted for reliable research activities such as basic research, clinical research, and epidemiological/socio-medical research necessary for countermeasures against high-risk emerging infectious diseases that pose threats to humankind.

### 3. Bioscience Research Grants (1989)

Granted for original and outstanding research activities that are judged to be making significant contributions to new findings in bioscience and to be the basis for advancement and development in this field.

### 4. Medical Research Grants (1964)

Granted for original research activities that are judged to be contributing to the advancement and development of medical science. Programs are offered in five categories: 1) oncology (basic study, clinical study), 2) psychiatry, neurology,



encephalopathy, 3) infectious diseases, and 4) basic and 5) clinical researches in areas other than the above three. Continuous grants for excellent researches by recipients of the Medical Research Grants were initiated in FY2006.

5. Pharmaceutical Research Grants (1981)

Granted for original research activities that are judged to be contributing to the advancement and development of pharmaceuticals. Continuous grants for excellent researches by recipients of the Pharmaceutical Research Grants were initiated in FY2006.

6. Life Science Research Grants (2010)

Granted for original research activities conducted by life science researchers, excluding those in medical, dental, and pharmaceutical institutions, that are judged to be original and contributing to the advancement and development of life sciences for improved human health. Continuous grants for excellent researches by recipients of the Life Science Research Grants were initiated in FY2019.

7. Specific Research Grants (2004)

Granted for joint research activities conducted by multiple institutions and/or multiple departments within an institution, that are judged to be contributing to the development of medical science in Japan.

8. Visionary Research Grants (2010)

Granted for original research ideas and activities that are judged to be innovative, challenging, contributing to the advancement and development of medical science, and inspiring a vision for the future. This program consists of initial and continuous grants for excellent research over four steps (Start, Hop, Step and Jump) at intervals of two or three years.

9. Promotion Grants for Science Education in Junior-High School or High School (High School 2005, Junior-High School 2010)

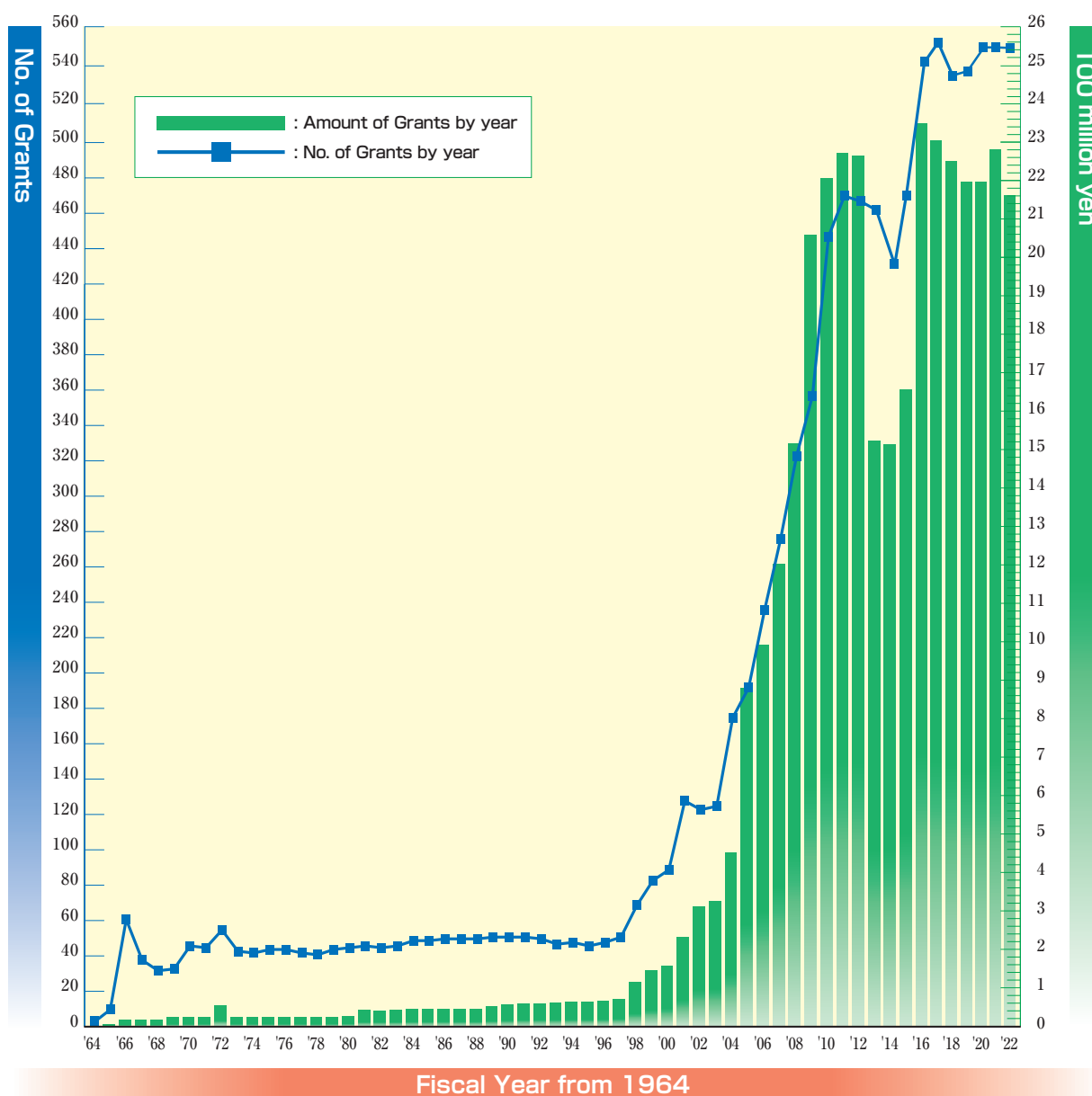
Granted for research activities or practices that are judged to be contributing to science education in junior-high school or high school.



Research Grants Presentation Ceremony



## Research Grants(1964–2022)



Cumulative number of grants: 10,183  
 Cumulative amount of grants: 36.8 billion yen  
 (from establishment of the Foundation in 1963 to FY2022)

### (3) Fellowship Program

#### i) For Overseas Medical Doctors and Researchers

The Takeda Science Foundation provides foreign medical, pharmaceutical and bioscience researchers with opportunities to conduct research in Japan. There are two kinds of programs, which give opportunities for advanced bioscience research and medical training to medical doctors and researchers from various

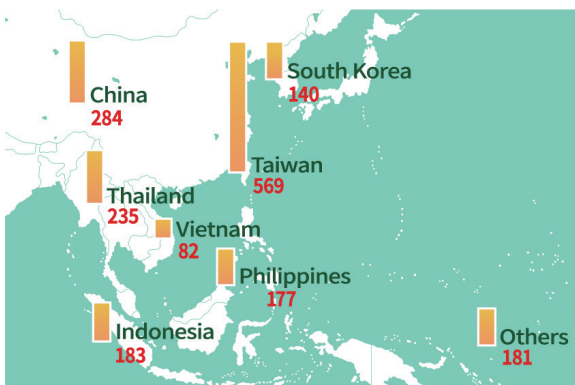
countries by having them attend leading institutions in Japan.

From among the candidates recommended by local screening committees in the seven designated countries of Taiwan, Thailand, the Philippines, Korea, China, Indonesia, and Vietnam, fellowship recipients are decided following approval by the Chairman of the Foundation.

In addition to candidates from those seven countries, researchers from other countries whose applications have been filed by their Japanese researchers as mentors, and who are recommended by the screening committee in Japan, can receive scholarships upon approval by the Chairman of the Foundation.

Each year, the number of international researchers to receive support is decided following approval by the Board of Trustees. In general, fellowships are awarded to about 50 researchers in total. (40 from the seven designated countries and 10 from other countries) The expertise of eligible researchers covers a broad range of fields, from basic medicine to clinical medicine.

Since 1963, the year of the Foundation's establishment, to the end of March 2023, fellowships have been offered to a total of 1,851 foreign researchers.



Cumulative number of fellows in each of the designated seven countries and other countries (as of end of March 2023)



Details of the cumulative number of fellows in the other countries (as of end of March 2023)



The 40<sup>th</sup> anniversary of fellowships to Indonesian medical doctors and researchers in Jakarta in 2023



The 50<sup>th</sup> anniversary of fellowships to Korean medical doctors and researchers in Seoul in 2023

## ii) For Japanese Medical Students Studying Basic Medical Sciences in PhD Courses

In order to increase the number of medical doctors contributing to the progress of basic medical science, the Takeda Science Foundation provides scholarships to medical students who start basic medical research in PhD courses.

Scholarship recipients are selected from among students who are expected to graduate, or who have graduated, from a school of medicine and plan to move on to a doctoral course (basic medicine) offered by a graduate school of medicine at a designated national university. A scholarship is granted following the prescribed screening process\* and approval by the Chairman of the Foundation.

- Designated universities: Hokkaido University, Tohoku University, The University of Tokyo, Keio University (from FY2024), Nagoya University, Kyoto University, Osaka University and Kyushu University
- Total number of recipients: 16 per year

\* A medical research division director at each designated university chairs the screening committee, which will select and recommend two candidates in principle.

This program started in 2012 and 72 scholarship recipients had received PhD degrees as of the end of March 2023.



The Certification Ceremony of Scholarships to Japanese Medical Students in Tokyo for FY2023 fellows



The 10<sup>th</sup> Anniversary Ceremony of Scholarships to Japanese Medical Students in Tokyo in 2022

### **iii) For Young Japanese MDs & PhDs Studying Abroad**

In order to increase the number of Japanese medical researchers who have an international outlook and communication skills to promote their medical research, the Foundation started an overseas research fellowship program to support young Japanese MDs & PhDs economically.

Every year, ten outstanding young MDs & PhDs are approved by the Chairman of the Foundation following the recommendation of the selection committee and are economically supported for 2 to 4 years while studying abroad. From starting in FY2019, a total of 50 medical researchers had been selected as fellows as of the end of March 2023.



Certification Ceremony of Fellowships to Young Japanese MDs & PhDs Studying Abroad in Osaka for FY2023 fellows

#### (4) The Takeda Science Foundation Symposium

The Foundation has planned and sponsored the International Symposium on Bioscience since 1982 and the International Symposium on PharmaSciences since 2001.

The purpose is to shed light on challenging questions in the life and medical sciences. Renowned scientists from all around the world are invited to report on their work and engage in discussions with other participants. In addition, a poster session is held and the Foundation offers poster awards for outstanding poster presentations by young researchers in the symposia.

To date, the symposia have examined the following themes.

#### The Takeda Science Foundation Symposium on Bioscience

	● Organizer(s)	● Theme
1st 1982	Dr. Yuichi Yamamura	Humoral Factors in Host Defense
2nd 1983	Dr. Setsuro Ebashi	Calcium Regulation in Biological Systems
3rd 1984	Dr. Osamu Hayaishi	Biomedical Imaging: From Anatomy to Physiology and Biochemistry
4th 1986	Dr. Hamao Umezawa	Frontiers of Antibiotic Research
5th 1988	Dr. Masao Ito Dr. Yasumi Nishizuka	Brain Signal Transduction and Memory
6th 1990	Dr. Hiroo Imura	Peptide Regulation of Cardiovascular Function
7th 1992	Dr. Masatoshi Takeichi	Cell-Cell Signaling and Morphogenesis
8th 1994	Dr. Kumao Toyoshima	Molecular Mechanisms of Carcinogenesis and Cell Growth
9th 1996	Dr. Osamu Hayaishi Dr. Shojiro Inoue	Sleep and Sleep Disorders: From Molecule to Behavior
10th 1998	Dr. Yoshifumi Takeda Dr. Yoshiyuki Nagai	Molecular Basis of Microbial Pathogenesis
11th 2000	Dr. Nobutaka Hirokawa Dr. Toshio Yanagida	Frontiers in Molecular Motors Research: From Gene, Structure and Dynamics to Functions
12th 2002	Dr. Masatoshi Takeichi Dr. Shin-ichi Nishikawa Dr. Yoshiki Sasai	Stem Cells and Organogenesis
13th 2004	Dr. Naoyuki Kamatani Dr. Yusuke Nakamura Dr. Setsuo Hirohashi	Genome Analysis and Medicine
14th 2006	Dr. Osamu Hayaishi Dr. Shozo Yamamoto	The 50 <sup>th</sup> Anniversary of Oxygenases: Advances and Reflections
15th 2008	Dr. Keiji Tanaka Dr. Masayuki Miura Dr. Takaomi Saïdo	Cell Death: What have we learned and what will we learn?

	● Organizer(s)	● Theme
16th 2010	Dr. Atsushi Miyawaki Dr. Michiyuki Matsuda Dr. Yasuyoshi Watanabe	Casting light on life: Multidimensional approach for imaging the molecules of life
17th 2012	Dr. Takeshi Iwatsubo Dr. Ryosuke Takahashi	Therapeutic Approach for Neurogenerative Diseases: Focusing on Alzheimer & Parkinson Diseases
18th 2015	Dr. Shinya Yamanaka Dr. Hideyuki Okano Dr. Jun Takahashi Dr. Masayo Takahashi	iPS Cells for Regenerative Medicine
19th 2017	Dr. Masayuki Miyasaka Dr. Shizuo Akira Dr. Kouji Matsushima	Chronic Inflammation: Initiation, Progression and Resolution
20th 2019	Dr. Shizuo Akira Dr. Toshifumi Inada Dr. Mikiko C. Siomi	RNA Neobiology
21st 2023	Dr. Mitinori Saitou Dr. Yukiko Gotoh Dr. Takashi Hiiragi	Towards Understanding Human Development and Evolution

### The 21<sup>st</sup> Symposium on Bioscience



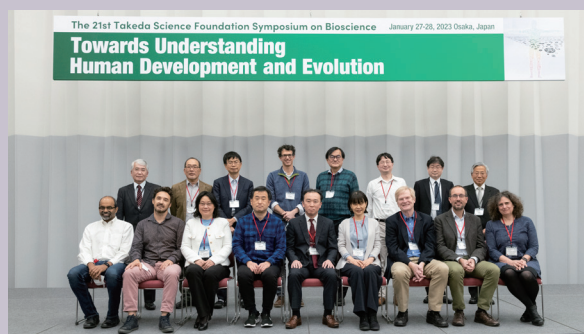
Opening remarks by Dr. Saitou, Chair of organizing committee



Poster Session



Venue for oral session



Organizing committee members and invited speakers



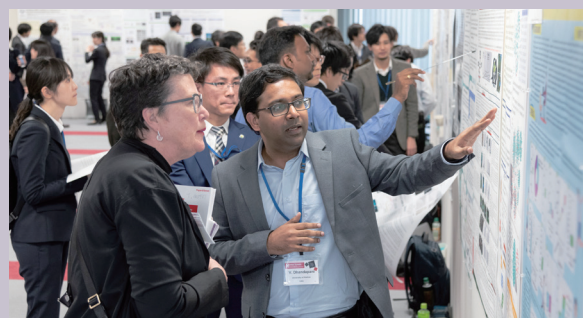
## The Takeda Science Foundation Symposium on PharmaSciences

	● Organizers	● Theme
1st 2001	Dr. Keizo Inoue Dr. Shoshichi Nojima Dr. Masahiro Nishijima	Lipids in Signaling and Related Diseases
2nd 2003	Dr. Kaoru Fuji Dr. Yutaka Ebizuka	The Science of Chiral Molecules: Its Diversity
3rd 2005	Dr. Yasuyuki Nomura Dr. Takeshi Iwatsubo	On the Frontiers of Neuro-PharmaSciences: Molecular Pathology and Drug Action
4th 2007	Dr. Tetsuo Nagano Dr. Hiroyuki Osada Dr. Masatoshi Hagiwara	On the Frontiers of Chemical Biology
5th 2009	Dr. Kazumitsu Ueda Dr. Hiroshi Suzuki	Bioactive Lipid Molecules and Transporters
6th 2012	Dr. Kaoru Fuji Dr. Masakatsu Shibasaki	How Fascinating Organic Chemistry Is!
7th 2014	Dr. Shinya Yamanaka Dr. Haruhisa Inoue Dr. Naoki Nagata	iPS Cells in Drug Discovery & Development
8th 2016	Dr. Yoshiaki Kiso Dr. Motonari Uesugi Dr. Toshiaki Katada Dr. Shigeaki Sasaki Dr. Satoshi Shuto	Biomolecule-Based Medicinal Science: Featuring Mid-Size Drugs
9th 2018	Dr. Takashi Yamamoto Dr. Osamu Nureki Dr. Junji Takeda	Genome Editing Towards Medicinal Applications
10th 2020	Dr. Shu Narumiya Dr. Shigenobu Kanba Dr. Akira Sawa Dr. Tomoyuki Furuyashiki	Mental Illness: Human Biology and Preclinical Modeling for Translation
11th 2024 (Planned)	Dr. Yasuteru Urano Dr. Ichio Aoki Dr. Koichi Fukase	Imaging-directed Development of Cutting Edge Drugs and Medical Technologies

### The 10<sup>th</sup> Symposium on PharmaSciences



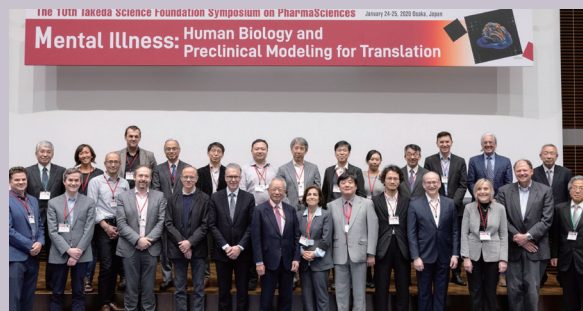
Opening remarks by Dr. Narumiya, Chair of organizing committee



Poster Session



Venue for oral session



Organizing committee members and invited speakers

## (5) Kyo-U Library

A number of priceless historical books had been burned to ashes in the Tokyo area by the Great Kanto Earthquake of 1923. Inspired by this irreparable loss, Chobei Takeda V recognized the importance for both academia and public society of preserving herbal and medical texts of Japanese and Chinese origin. As time went by, his personal collections were augmented in quality and quantity and passed down to Chobei Takeda VI. The collections were known as “Kyo-U Sho-Oku (Kyo-U Library)”. The term “Kyo (杏)” means apricot and “U (雨)” means rain, and “Kyo-U” comes from an ancient Chinese story as follows. Once, there was an excellent doctor who examined and treated poor patients free of charge. Instead, he asked them to plant apricot trees around his house. Finally, these apricot trees formed a big grove called “KYO-RIN” , and the term later came to mean “medical world”. “Kyo-U” signifies “something that promotes the development of medical sciences just as rain raises a grove”.

In 1977 and 1978, most of the collections were donated to the Takeda Science Foundation together with the library’s name and were opened to the public on April 28, 1978. The library mainly displays historical books of natural medicines. While Kyo-U Library conserves those documents for generations to come, it also offers facilities to researchers and organizations by holding special exhibitions and research lectures every year in spring and autumn, and also reproducing some original texts of selected important books.



Exhibition: 10:00am to 4:00pm on weekdays  
Library: 9:00am to 4:00pm on weekdays by advance reservation

## Principal Collections

National Treasures (3) :

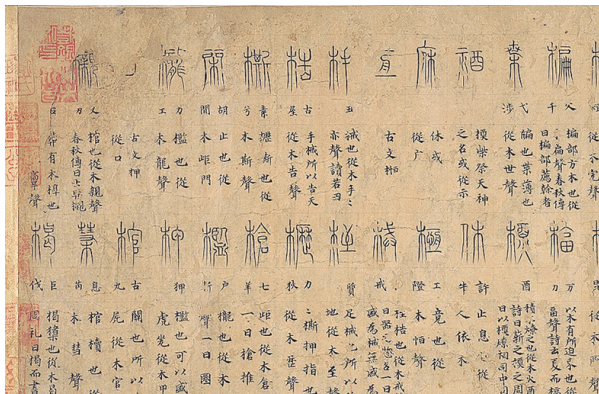
- *Setsumon* (*Shuo-wên*, exposition of the origin of Chinese characters), a surviving portion of a section entitled *Moku-bu* (Mu-pu), 1 scroll
- *Shiki shikkai* (an annotated edition of Shiki), 11 volumes
- *Souhan Moushi Seigi* (*Mao-Shih Chêng-I*, Commentary on *Mao-Shih Chêng-I*, Sung edition), 17 volumes

Important Cultural Assets (14) :

- *Yakushushou*, 2 scrolls • *Kouyoushou*, 2 scrolls • *Kokuruishou*, 1 scroll
- *Koujishou*, 1 scroll • *Kobun Koukyou*, 1 scroll • *Shunjuu Keiden Shikkai*, 4 scrolls
- *Henjou Hokki Shoryoshu*, 7 scrolls • *Shoutokutaishi Denryaku*, 4 volumes • *Shunki*, 3 scrolls • *Sanemikyoki*, 51 scrolls • *Koutei Daikai Taiso*, 2 scrolls • *Shinshu Honzou Zankan*, 1 scroll • *Houyoushou*, 1 scroll • *Keitekishu*, 8 volumes & 2 volumes

Other key works from the collection :

- *Jihitsukouhon Zenkushu* • *Hidengankaryubokusouron* • *Souhan Gedaihiyouhouzankan* • *Nansouhan Bikyu Soukouhou* • *Nansouhan Honzou Engi* • *Genban Keishishourui Taizen Honzou* • *Genban Seisaisourokuzankan* • *Genban Ruihenzukyoushuchu Engi Honzou* • *Kinryouhon Honzoukomokuzankan* • *Koshabon Koyakushou* • *Koshabon Ihon Yamai-no-Soushi* • *1758 Kaibo Kuriyama Koan Jihitsukaibozufu* • *1783 Kaibo Heijirouzouzu* • *1882 Kanou Hogai Chichukaishinkeizu*



National Treasure:  
*Setsumon (Shuo-wên*, exposition of the origin of Chinese characters), a surviving portion of the section entitled *Moku-bu* (Mu-pu)  
 A section which defines Chinese characters with the left-hand radical “wood” in a manuscript of the Tang era (820 A.D.), of which the original is the first classified Chinese dictionary, compiled by Xu Shen of the Later Han dynasty.



Important Cultural Asset:  
*Yakushushou* (the first year of the *Hougen* era, 1156 A.D.), a book by the monk Ken-i consisting of a collection of writings on medicine, required for the acetic practice of esoteric Buddhism.

## (6) Publications

The Foundation publishes specialized scientific books which commercial presses find impractical to publish. It also publishes reprints of important works from its collections. Books published so far are:

- Camellias of Japan, written and edited by Takashi Tsuyama (1969)
- The Complete Catalogue of the Kyo-U Library (1982)
- Annotated Bibliography of the *Kunisanso* Collection (1985)
- A Study of Ben Cao Books, written by Kozo Watanabe (1987)
- A Study of Ben Cao Books, written by Shikazo Mori (1999)
- *Shinshu Honzou*, Volume 15 (2000)
- *Houyoushou* (2002)
- *Shuuzou Shokumotsu Honzou* (2003)
- *Kokuruishou* (2004)
- A Comprehensive Etymological Dictionary of Medicinal Herbs and Plants, written by Masao Uchibayashi (2004)
- *Bikyusoukouhou* (2005)
- The Takeda Prize for Medical Science 50-year Photo Collection (2005)
- *Mizutani Honzou* I-IV (2005-2008)
- Catalogue of Western Books in the Kyo-U Library (2006)
- Collection of Letters in the Kyo-U Library I (2006), II (2009)
- Profiles of 100 Laureates of the Takeda Prize for Medical Science (2006)
- *Koujishou* (2007)

- *Koutei Daikei Taiso* (2007)
- *Kouyoushou* I (2008), II (2009)
- Collection of Medical Doctor Portraits in the Kyo-U Library (2008), Vol. 2 (2018)
- *Tonkou Hikyu* I-IX (2009-2013)
- Messages to Young Researchers (2009, 2012, 2015, 2019)
- *Yakushushou* I (2010), II (2011)
- *Honzou Hin-i Seiyou* I-VI (2010-2012)
- *Honzou Hin-i Seiyou*; Explanation, Catalogue, Index (2015)
- *Moushi Seigi* I-IV (2011-2013)
- Fifty-year History of the Takeda Science Foundation (2014)
- Studies on Udagawa Yoan's Botanical Works owned by the Kyo-U Library (2014)
- Catalogue and Explanation of *Matsuki Bunko* (2014)
- Manase Dosan in the Medical Culture of Early Modern Japan (2015)
- Studies on Bencao: Natural Medicines and Herbs, written by Saburo Miyashita (2016)
- Catalogue of the Tripitaka in *Sekisha-ban* edition in the Kyo-U Library I-XI (2017-2023)
- Tales of Diseases and Deformities (*Yamai-no-Soushi*), Compilation of Old Copies in the Kyo-U Library (2017)
- A Study of Four Nestorian Manuscripts Held in the Dunhuang Manuscript Collection of the Kyo-U Library (2020)
- Collection of Saint Doctor Portraits (2022)
- Collection of Arguments and Considerations of Japanese Early-modern Medical History I, II, written by Senjuro Machi (2022)

Periodicals:

- Kyo-U journal (founded in April 1998, issued every April)



## V . FOUNDATION OFFICERS AND LIBRARY CHIEF DIRECTOR

(in alphabetical order)

Honorary Chairman:

Kyoko Takeda (President, K&H Company Limited)

Honorary Advisors:

Saichi Hosoda, M.D., Ph.D. (Adviser, Japan Research Promotion Society  
for Cardiovascular Diseases)

Hiroo Imura, M.D., Ph.D. (Professor Emeritus, Kyoto University)

Tadamitsu Kishimoto, M.D., Ph.D. (Specially Appointed Professor,  
Osaka University)

Shigetada Nakanishi, M.D., Ph.D. (Professor Emeritus, Kyoto  
University)

Councilors:

Tutomu Chiba, M.D., Ph.D. (Emeritus President, Kansai Electric Power  
Hospital)

Yoshinori Fujiyoshi, Ph.D. (Distinguished Professor, Tokyo Medical and  
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Toshio Hirano, M.D., Ph.D. (Professor Emeritus, Osaka University)

Masamitsu Iino, M.D., Ph.D. (Special Advisor to the Director, The  
University of Tokyo)

Kayo Inaba, Ph.D. (Auditor, Japan Agency for Medical Research and  
Development)

Takashi Kadowaki, M.D., Ph.D. (President, Toranomon Hospital)

Toshiaki Katada, Ph.D. (Professor Emeritus, The University of Tokyo  
and Guest Professor, Musashino University)

Masao Mitsuyama, M.D., Ph.D. (Professor Emeritus, Kyoto University)

Yo-ichi Nabeshima, M.D., Ph.D. (Professor Emeritus, Kyoto University)

Shigekazu Nagata, Ph.D. (Distinguished Professor, Osaka University)

Toshihiko Yanase, M.D., Ph.D. (Director, Seiwa-Kai Muta Hospital)

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Satoshi Nakatani, M.D., Ph.D. (Director, Saiseikai Senri Hospital)

Naohisa Takeda (former Corporate Auditor, Takeda Pharmaceutical  
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Yuriko Yamagata, Ph.D. (Professor Emeritus, Kumamoto University)

Auditors:

Hirohiko Ikeda (Lawyer)

Masatoshi Ohara (Lawyer)

Kyo-U Library Chief Director:

Haruyuki Tono, Ph.D. (Professor Emeritus, Nara University and Osaka  
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(As of December 2023)



## VI. SECRETARIAT

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# Map to Takeda Science Foundation

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**Takeda Science Foundation**  
Osaka, Japan