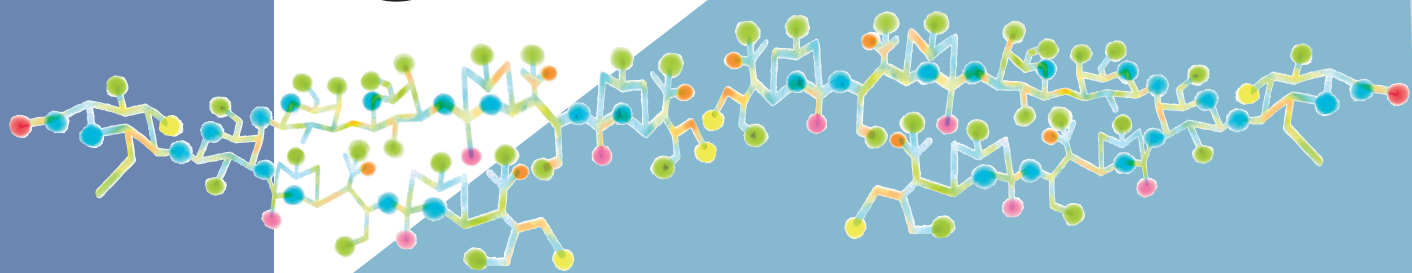


# Mizutani Foundation for Glycoscience



## Aim

The Mizutani Foundation for Glycoscience, on the basis of its global policy, awards grants to glycoscientists worldwide for innovative basic and applied research proposals, supports international exchanges of researchers in the field of glycoscience and also relevant meetings and their hosting organizations, aiming to promote glycoscience and contribute to the welfare of humankind.

## Major Activities

The Foundation conducts the following activities in order to achieve the above goals.

1. Worldwide award of research grants for innovative basic and applied research proposals in the field of glycoscience
2. Assistance in international exchanges between Japanese and overseas glycoscientists
3. Contribution to glycoscience-related meetings and their hosting organizations
4. Conduct other activities necessary to achieve the aims of the Foundation

## Organization

Chairperson : Ken Mizutani

Trustees : Tamao Endo, Tomoya Ogawa, Toshisuke Kawasaki, Kunihiko Suzuki,  
Yasuo Suzuki, Masaki Yanagishita

Auditors : Takayasu Kishi, Nobuhiro Takeuchi

Councilors : Yukishige Ito, Tatsurou Irimura, Makoto Kiso, Yuji Shimojima,  
Akemi Suzuki, Naoyuki Taniguchi, Shoko Nishihara, Yousuke Funakoshi

Secretary General : Eriko Hagiya

# Research Grant Awarded in 2023

Mizutani Foundation for Glycoscience received 86 research grant applications from 17 countries in 2022.

After careful evaluation for scientific and social merit, potentiality and feasibility, the Foundation decided to award the grants of approximately 70 million yen in total to the following 15 projects.

## Grant recipients

(in alphabetical order)

### 1. Bredeston, Luis M

IQUIFIB (CONICET-UBA) / University of Buenos Aires, Argentina  
Role of SLC35A3 Transporter on Congenital Disorders of Glycosylation

### 2. Cantero-Recasens, Gerard

Vall d'Hebron Research Institute (VHIR), Spain  
Unravelling CIC-5 role on glycosylation and its link with proximal tubule functioning

### 3. de Vries, Robert P

Utrecht University, Netherlands  
Modified sialic acids and LacNAcs as receptors for influenza viruses on the avian-mammalian interface

### 4. FehI, Charlie

Wayne State University, United States  
Capturing real-time sugar signaling in cells with light-released O-GlcNAc probes

### 5. Fushinobu, Shinya

The University of Tokyo, Japan  
Structure-function analysis and functional exploration of novel furanosidase families

### 6. Iwabuchi, Kazuhisa

Juntendo University, Japan  
The role of glucosylated phospholipid/GPR55 signaling axis in neutrophil homeostasis

### 7. Jacobsen, Eric N

Harvard University, United States  
Seeking General Solutions to Selective Glycosylation

### 8. Kakizaki, Ikuko

Hirosaki University Graduate School of Medicine, Japan  
Enzymatic remodeling of glycosaminoglycan polysaccharides

### 9. Kanagawa, Motoi

Ehime University Graduate School of Medicine, Japan  
Molecular basis of ribitol phosphate modification and muscular dystrophy therapy

### 10. Laguri, cedric

Institut de Biologie Structurale (IBS), France  
Innovative membrane mimetics systems to study LPS-lectin binding specificity

### 11. Nakae, Susumu

Hiroshima University, Japan  
Analysis of molecular mechanisms of sugar allergen-induced allergic diseases

### 12. Shin, Hye-Won

Kyoto University, Japan  
Roles of glucosylceramide-flippase in glycosphingolipid metabolism

### 13. Takasugi, Masaki

Osaka Metropolitan University Graduate School of Medicine, Japan  
Investigation of the role of hyaluronan and its receptor CD44 in aging

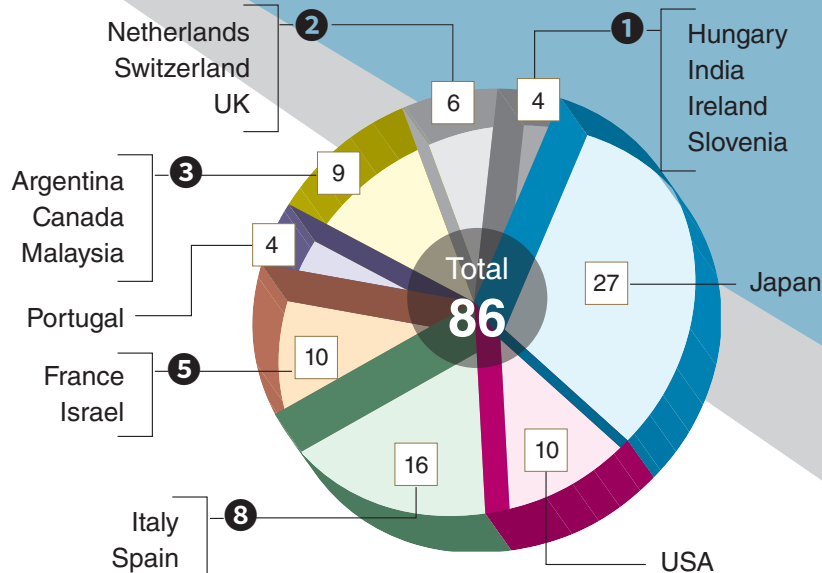
### 14. Tani, Motohiro

Kyushu University, Japan  
Analysis of significance of diversity of glycosphingolipids using yeast

### 15. Zhao, Yingtao

New York Institute of Technology, United States  
Heparan sulfate and its signaling in Kallmann syndrome

## Number of applicants by country

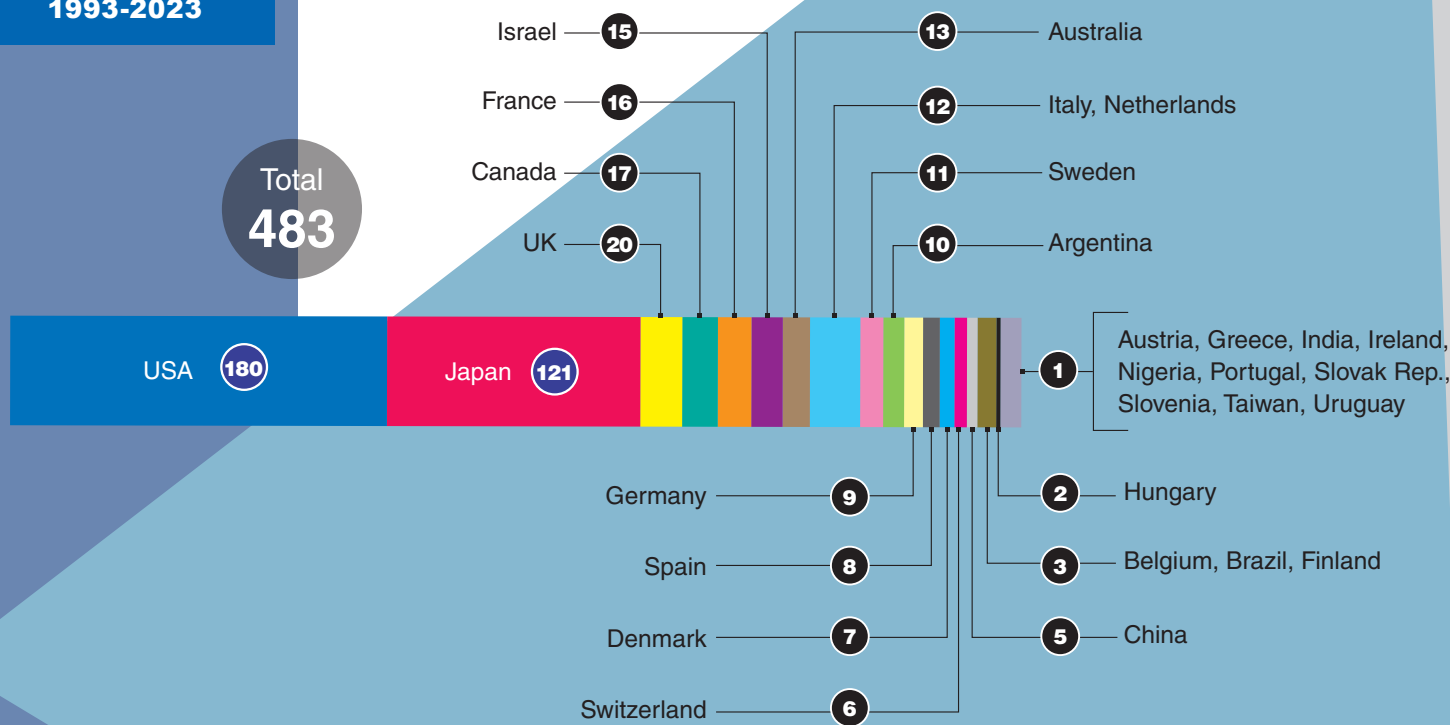


# Grantees 1993-2023

Mizutani Foundation for Glycoscience invited research grants for thirty times and received 4,279 applications from 61 countries. After careful evaluation by the selection committee, the Foundation approved 483 projects of 30 countries and awarded a total of approximately 2,295 million yen to them.

Grant recipients 1993-2023

Total 483



Number of applicants by country 1993-2023

Country	Applicants	Country	Applicants	Country	Applicants
USA	1,460	Denmark	22	Chile	4
Japan	642	Hungary	20	South Africa	4
UK	250	Austria	16	Bulgaria	3
Italy	218	Malaysia	16	Turkey	3
Australia	193	Ireland	14	Costa Rica	2
Canada	148	Greece	13	Cuba	2
Israel	148	Norway	13	Hong Kong	2
Spain	129	New Zealand	12	Iceland	2
Sweden	123	Nigeria	11	Serbia&Montenegro	2
France	114	Poland	11	Tanzania	2
Germany	95	Taiwan	11	Colombia	1
Netherlands	82	Mexico	10	Estonia	1
Argentina	76	Slovak Rep.	10	Iran	1
Portugal	66	Korea	8	Jamaica	1
China	52	Croatia	7	Kenya	1
Switzerland	46	Thailand	7	Peru	1
Finland	45	Uruguay	7	Saudi Arabia	1
Brazil	37	Czech Rep.	6	Sri Lanka	1
India	35	Singapore	6	Uganda	1
Belgium	31	Slovenia	6	<b>Total</b>	<b>4279</b>
Russia	23	Pakistan	5	<b>Country</b>	<b>61</b>

# The 31<sup>th</sup> Research Grant Offer for 2024

Mizutani Foundation for Glycoscience invites grant applications for basic and applied studies in the field of glycoscience.

## Eligibility

An applicant must

- 1) have a doctor's degree or its equivalent
- 2) have a documented capability of performing independent studies
- 3) be a member of a research institute where he or she can carry out the proposed project.

Previous grant recipients who were awarded prior to 2019 are eligible.

## Grant

As much as 7,000,000 yen may be requested. In principle, a grant will be approved for one year. However, if desired, the period can be extended up to one year with the approval of the Foundation. The total budget for grants is 70,000,000 yen per annum. No more than 10% of the grant may be used for indirect costs (overheads), and no part of the grant may be used for stipends of the principal and/or collaborative investigators.

## Selection

The applications will be reviewed by the selection committee consisting of specialists appointed by the Foundation based on followings.

- 1) Glycoscience field
- 2) Originality
- 3) Scientific and social merit
- 4) Feasibility

## Application

An applicant must

- 1) make registration on our website,  
(<https://www.mizutani.or.jp/grant/apply.html>)  
We open registration page from July 1st, 2023.
- 2) submit application documents as a single ZIP file.  
(Please obtain application guidelines and forms from our website in your preferred format. )

## Deadlines

September 1, 2023 (Japan Time). Selection Outcome will be notified to the applicants no later than February 20, 2024, and the successful proposals will be funded in March 2024.

The Protection of Personal Information: The Foundation will use personal information obtained in relation to the Research Grant for administrative purposes.

# International Conferences

Mizutani Foundation for Glycoscience offers grants to the organizers of international conferences to promote exchanges between Japanese and foreign glycoscientists. In the fiscal year 2022, we supported following conferences.

## Exchange Program

1. The Feseb Microbial Glycobiology Conference	Lisbon, Portugal, 6/12-16,2022
2. Sialoglyco 2022	Nagoya, Japan, 9/5-8,2022
3. 4th Australasian Glycoscience Symposium (AGS)	Queensland, Australia, 11/22-25,2022

# Grant for Domestic Conferences in Japan

This grant is for organizers of domestic conferences held in Japan. We supported following conferences in the fiscal year 2022.

## Domestic Conferences in Japan

1. 第 22 回 関西グライコサイエンスフォーラム	大阪、5/21,2022
2. 第 54 回日本結合組織学会学術大会	大阪、6/25-26,2022
3. 第 36 回日本キチン・キトサン学会大会	東京、8/25-26,2022(オンライン開催)
4. 第 71 回日本応用糖質科学会 2022 年度大会	東京、8/31-9/2,2022
5. 第 24 回比較グライコム研究会	愛知、9/3,2022
6. 第 38 回シクロデキストリンシンポジウム	埼玉、9/10-11,2022
7. 第 41 回日本糖質学会年会	大阪、9/29-10/1,2022
8. 第 21 回青森糖質研究会	青森、10/14,2022(オンライン開催)
9. 第 16 回 東北糖鎖研究会	福島、10/15-16,2022
10. 第 16 回多糖の未来フォーラム	東京、11/18,2022
11. 第 19 回糖鎖科学コンソーシアムシンポジウム	岐阜、11/21-22,2022
12. 糖鎖科学中部拠点フォーラム「若手の力」と糖鎖科学講義	愛知、1/7・1/19,2023
13. グライコサイエンス プロトコール 第2版 [出版物支援]	NCBI Bookshelf ( <a href="https://www.ncbi.nlm.nih.gov/books/">https://www.ncbi.nlm.nih.gov/books/</a> )に掲載

# Grant Offer for Conferences

**Grant Application Guidelines for Glycoscience Meeting**

The Mizutani Foundation is to contribute to the welfare of mankind through promotion of scientific exchange between Japanese and foreign glycoscientists by contributing international conferences on glycoscience.

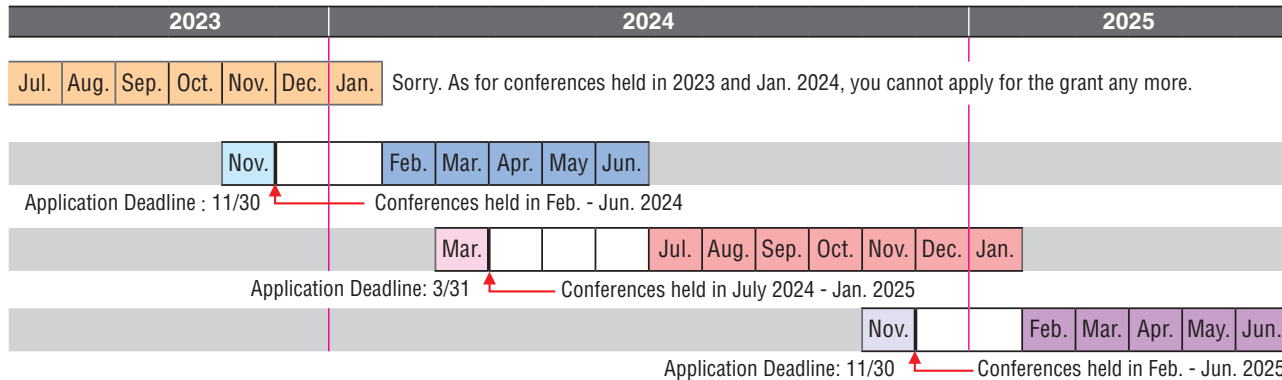
Proposals should be made an application format by the chairperson of the meeting.

After the meeting, please submit us a report of the meeting (the form is available from our website) within one month.

Our total yearly budget is JPY 5,000,000 and we expect to support approximately 20 conferences every year.

**The deadline date by which the application must be submitted**

Due to taking the time to review, the complete application must be emailed by deadline (Japan time).



1. November, 30 : For the meetings planned to be held in next February, March, April, May, and June
2. March, 31 : For the meetings planned to be held in this July, August, September, October, November, December and next January



**Mizutani Foundation for Glycoscience**

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 E-mail: info@mizutanifdn.or.jp  
 URL: <https://www.mizutanifdn.or.jp/>