**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 : Tomoya Ogaya, Toshisuke Kawasaki, Koji Kimata, Kunihiro Suzuki, Yasuo Suzuki, Masaki Yanagishita  
Auditors : Takayasu Kishi, Nobuhiro Takeuchi  
Councilors : Yukishige Ito, Tatsurou Irimura, Tamao Endo, Makoto Kiso, Yuji Shimojima, Akimi Suzuki, Naoyuki Taniguchi, Shoko Nishihara, Yousuke Funakoshi  
Secretary General : Eriko Hagiya
Mizutani Foundation for Glycoscience received 137 research grant applications from 32 countries in 2020. 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. **Aharoni, Asaph**  Weizmann Institute of Science, Israel  
   **Fucosyltransferases and sustainable production of high-value natural products**

2. **Bel, Shai**  Bar-Ilan University, Israel  
   **Determining How Colonic Goblet Cells Control Mucus Glycosylation**

3. **Fass, Deborah**  Weizmann Institute of Science, Israel  
   **Structural Analysis of O-glycosylated Domains During Mucin Supramolecular Assembly**

4. **Hirai, Go**  Kyushu University, Japan  
   **Development of novel mechanism-based inhibitors for glycohydrolases**

5. **Kajihara, Yasuhiro**  Osaka University, Japan  
   **Elucidation of glycan functions by a new semi-synthetic method of glycoproteins**

6. **Matthijs, Gert**  KU Leuven (University of Leuven), Belgium  
   **A novel Congenital Disorder of Glycosylation and a new facet of dolichol metabolism**

7. **Narimatsu, Yoshiki**  Copenhagen University, Denmark  
   **Display of the Human Mucinome with Defined O-Glycans by Gene Engineered Cells**

8. **Sumida, Tomomi**  Japan Agency for Marine-Earth Science and Technology (JAMSTEC), Japan  
   **Screening and characterization of novel glycoside hydrolases from deep sea**

9. **Suzuki, Jun**  Kyoto University, Japan  
   **Identification and functional analysis of glucosylceramide scramblase**

10. **Takahashi, Takeshi**  Central Institute for Experimental Animals, Japan  
    **Improved human xenograft in NOG mice by manipulating receptors for glycans**

11. **Tanaka, Katsunori**  Tokyo Institute of Technology, Japan  
    **In Vivo Patrolling and Therapeutic Molecules by Glycan Pattern Recognition**

12. **Trinchera, Marco**  University of Insubria, Italy  
    **Novel diseases reveal glycosylations affecting human specific brain functions**

13. **Uchimura, Kenji**  CNRS, University of Lille, France  
    **Regulation of amyloid clearance by heparan sulfate remodeling**

14. **Yi, Wen**  Zhejiang University, China  
    **Regulation of Epidermal Growth Factor Receptor Signaling by O-GlcNAcylation**

15. **Zhao, Yan**  Iowa State University, United States  
    **Synthetic Glycan-Processing Catalysts for Modern Glycomics**

**Number of applicants by country**

- **USA** - 22
- **Japan** - 26
- **Argentina, Brazil, China, Denmark, Hungary, India, Netherlands, Portugal (2)** - 16
- **Malaysia, UK (3)** - 6
- **Australia, France, Sweden (4)** - 12
- **Portugal** - 6
- **Israel** - 10
- **Spain** - 11
- **Italy** - 15
- **Others** - 13
- **TOTAL** - 137
Mizutani Foundation for Glycoscience invited research grants for twenty-eight times and received 4,074 applications from 59 countries. After careful evaluation by the selection committee, the Foundation approved 454 projects of 30 countries and awarded a total of approximately 2,155 million yen to them.
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 2017 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, 2021.
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, 2021 (Japan Time). Selection Outcome will be notified to the applicants no later than February 20, 2022, and the successful proposals will be funded in March 2022.

The Protection of Personal Information: The Foundation will use personal information obtained in relation to the Research Grant for administrative purposes.
Mizutani Foundation for Glycoscience offers grants to the organizers of international conferences to promote exchanges between Japanese and foreign glycoscientists. In the fiscal year 2020, we supported following conferences.

### Exchange Program

1. **International Symposium on Microbial Glycoconjugate Synthesis and Catabolism**
   - Tokyo, Japan, 3/9-13, 2020 (Postponed for one year)

2. **Gordon Research Conference Glycolipid and Sphingolipid Biology**
   - Ciocco, Italy, 3/22-27, 2020 (Postponed for one year)

3. **The 7th International Conference on Plant Cell Wall Biology**
   - Hokkaido, Japan, 6/22-26, 2020 (Postponed for one year)

4. **The 2020 Proteoglycan Gordon Research Conference**
   - New Hampshire, USA, 7/12-17, 2020 (Postponed for two years)

### 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 2020.

#### Domestic Conferences in Japan

1. **第 21 回関西グライコサイエンスフォーラム**
   - 大阪, 5/23, 2020 (1年延期)

2. **第 34 回日本キチン・キトサン学会大会**
   - 福井, 8/27-28, 2020

3. **第 14 回東北糖鎖研究会**
   - 宮城, 8/28-29, 2020

4. **日本応用糖質学会 2020 年度大会**
   - 長野, 9/10-11, 2020

5. **第 52 回日本結合組織学会学術集会**
   - 愛知, 9/19-20, 2020

6. **第 18 回糖鎖科学コンソーシアムシンポジウム**
   - 東京, 10/6-7, 2020 (1年延期)

7. **第 14 回多糖の未来フォーラム**
   - 東京, 11/7, 2020

8. **第 39 回日本糖質学会年会**
   - 東京, 11/21-22, 2020

9. **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, 1/22, 2021

10. **第 11 回グライコバイオロジクス研究会**
    - 愛知, 1/28, 2021
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 with a proposal letter addressed to Mr. Ken Mizutani, Chairperson of the Foundation and 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).

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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

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