

2021 年度 生命科学技術国際卓越講義

World-leading Innovative Lectures
in Life Science & Technology
The University of Tokyo



【Title】 TBA

**【Topic】 Chemical biology to elucidate the biological roles of carbohydrates,
with a focus on learning new mechanistic concepts**

Prof. Laura Kiessling

Novartis Professor of Chemistry, Massachusetts Institute of Technology

Date: Friday, 3rd, September, 2021

Time: 9:00AM ~ 10:30AM

Venue: Zoom (meeting URL will be sent after registering)

Participants: Up to 500 participants



Please register by this QR code or clicking the following link

[Registration Form](#)



Kiessling Group's Research:

Understanding carbohydrate function is important as all cells on Earth wear a carbohydrate coat. This carbohydrate coat, termed the glycocalyx, is poised to mediate or modulate diverse and critical biological and medical events. Given the emerging evidence that this coat serves as a critical conduit of information, our group is focused on elucidating how carbohydrates are assembled, how they are recognized, and how they function. Using ideas and

approaches that range from synthetic chemistry to molecular and cell biology, our research group is addressing the critical issues at this frontier.

<Recent Publications> [ACS Cent. Sci. 2021, 7, 624-630](#); [ACS Nano 2021, 15, 309-321](#); [bioRxiv 2021](#); [J. Am. Chem. Soc. 2020, 142, 2386-2395](#); [Sci. Adv. 2020, 6, eaba4015](#).

Biography:

Professor Kiessling received an Sc.B. degree in chemistry at MIT, where she performed undergraduate research in organic synthesis with Professor Bill Roush. She received a Ph.D. degree in chemistry at Yale University for her research with Stuart L. Schreiber. She was an American Cancer Society postdoctoral fellow with Peter B. Dervan at California Institute of Technology. She then joined the faculty at the University of Wisconsin-Madison, where she became the Steenbock Professor of Chemistry, the Laurens Anderson Professor of Biochemistry, and the Director of the Keck Center for Chemical Genomics. In 2017, she returned to MIT as the Novartis Professor of Chemistry.

Organizer: World-leading Innovative Graduate Study Program for Life Science and Technology

Cooperation: Graduate Program for Leaders in Life Innovation, The University of Tokyo

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