

## How my experiences in asymmetric catalysis and glycobiology lead to my current research in synthetic post-translational modifications by chemical catalysts

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I would like to share my experiences as an example of how the PhD course research (Shibasaki Masakatsu laboratory) and the research abroad (University of Wisconsin-Madison, Laura Kiessling laboratory) are leading to the current research. I worked on asymmetric catalysis for efficient production of physiologically active substances as a PhD course research in Japan. Then, I moved to the US, and worked on functional analysis of enzymes (biocatalysts), in particular, a glycosyltransferase. Now, I am working on the development of chemical catalysts that can introduce post-translational modifications into proteins, especially histones. Being based on catalysis, I have been aiming at research that can contribute to life science. In this presentation, I would like to tell you what I thought when selecting such a career path and how it affected my current research, with touching both sides of good points and points of reflection.