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Research Keywords

Peptide chemistry, Amyloid, Catalysis

Academic Career

B.S., 2001, Kyoto Pharmaceutical University; Ph.D., 2005, Kyoto Pharmaceutical University; (advisor: Yoshiaki Kiso); Postdoctoral Training, 2006-2009, The University of Chicago (advisor: Stephen B. H. Kent); Assistant Professor, 2009-2012, Kyoto Pharmaceutical University; Lecturer & Group Leader, 2012-2021, The University of Tokyo; Professor, 2021-present, Wakayama Medical University

Selected Publications

Semi-synthesis of TDP-43 reveals the effects of phosphorylation in N-terminal domain on self-association. Daisuke Sasaki, Mao Tenda, Youhei Sohma, *Commun. Chem.* 2025, 8, 125.

Amyloid-reoriented enzyme catalysis. Taka Sawazaki, Fuma Murai, Kai Yamamoto, Daisuke Sasaki, Youhei Sohma, *Nat. Commun.* 2025, 16, 3164.

Catalysis driven by an amyloid-substrate complex. Taka Sawazaki, Daisuke Sasaki, Youhei Sohma, *Proc. Natl. Acad. Sci. U.S.A.*, 2024, 121, e2314704121.

Why My Lab?

My lab can offer...

Catalysis driven by an amyloid-substrate complex; Semi-synthesis of TDP-43