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Research Keywords

Chemical biology, Chemoproteomics, Self-assembly, Chemical immunology

Academic Career

B.S., 1990, Kyoto University; Ph.D., 1995, Kyoto University (advisor: Yukio Sugiura); Postdoctoral Training, 1995-1998, Harvard University (advisor: Gregory L. Verdine); Assistant Professor, 1998-2005, Baylor College of Medicine; Associate Professor (Tenured), 2005-2009, Baylor College of Medicine; Professor, 2005-present, Kyoto University; Director, 2023-present, WPI-iCeMS, Kyoto University

Selected Publications

Live-Cell Monitoring and Omics Analysis of Liquid-Solid Transitions of Biomolecular Condensates. Farrag, A., et al. J. Am. Chem. Soc. in press (2025)

Covalent Plant Natural Product that Potentiates Antitumor Immunity. Takemoto, M., et al. J. Am. Chem. Soc. 147(3), 2902–2912 (2025)

Chemoproteomic Identification of Spermidine-Binding Proteins and Antitumor-Immunity Activators. Vaibhav Pal Singh, et al. J. Am. Chem. Soc. 146(24), 16412–16418(2024)

Chemoproteomic Identification of Blue-Light-Damaged Proteins. Toh, K., et al. J. Am. Chem. Soc. 144(44), 20171–20176 (2022)

Magnetic Control of Cells by Chemical Fabrication of Melanin. Nishio, K., et al. J. Am. Chem. Soc. 144(37), 16720–16725 (2022)

Why My Lab?

My lab can offer...

Chemical library (70,000 molecules), Natural product library (~600 molecules), Reactive compound library (~1,900 molecules), Dynamic light scattering, chemoproteomics tools