Japan

HAN-P-01

Motonari Uesugi

Professor, Kyoto University
Email: uesugi@scl.kyoto-u.ac.jp

Website	https://www.scl.kyoto-u.ac.jp/~uesugi/index.php
Social Media Channel	https://twitter.com/MotonariU
Research Field(s)	Chemical biology, chemoproteome, self-assembly

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, WPI-iCeMS, 2023-present, Kyoto University

Selected Publications

1. Chemoproteomic Identification of Spermidine-Binding Proteins and Antitumor-Immunity Activators. Singh, V., et al. J. Am. Chem. Soc. 146(24), 16412–16418 (2024)
2. Chemoproteomic Identification of Blue-Light-Damaged Proteins. Toh, K., et al. J. Am. Chem. Soc. 144(44), 20171–20176 (2022)
3. Magnetic Control of Cells by Chemical Fabrication of Melanin. Nishio, K., et al. J. Am. Chem. Soc. 144(37), 16720–16725 (2022)
4. Discovery of a phase-separating small molecule that selectively sequesters tubulin in cells. Ado, G., et al. Chemical Science 13, 5760-5766 (2022)
5. Chemical Genetics Reveals a Role of Squalene Synthase in TGFβ Signaling and Cardiomyogenesis. Takemoto, Y., et al. Angew. Chem. Int. Ed. 60(40), 21824-21831 (2021)
6. Discovery of Self-Assembling Small Molecules as Vaccine Adjuvants. Jin, S., et al. Angew. Chem. Int. Ed. 60(2), 961-969 (2021)
7. Discovery of a Small-Molecule-Dependent Photolytic Peptide. Takemoto, Y., et al. J. Am. Chem. Soc. 142(3), 1142-1146 (2020)
8. A small molecule that represses translation of G-quadruplex-containing mRNA. Katsuda, Y., et al. J. Am. Chem. Soc. 138, 9037-9040 (2016)

Why My Lab?

Globalized laboratory where the official language is English. Highly international and English-based graduate program available. The lab is equipped with a 70,000 compound library, FACS, 96-well format confocal microscope, and both chemistry and biology settings.