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Research Keywords

Medicinal chemistry, Cancer therapy, Protein modification

Academic Career

B.S., 1991, Tohoku University, Ph.D., 1996, Tohoku University (advisor: Prof. Yoshinori Yamamoto); Assistant Professor, 1995–1997, Kyushu University, 1997-2002, Tohoku University; Visiting Assistant Professor, 2000-2001, University of Pittsburgh (advisor: Prof. Dennis P. Curran); Associate Professor, 2002-2006, Gakushuin University; Professor, 2006-2013, Gakushuin University; Professor, 2013-2024, Tokyo Institute of Technology; 2024-present, Institute of Science Tokyo

Selected Publications

A BODIPY-based photothermal agent incorporating azulene for enhanced NIR absorption and tumor ablation K. Nishimura, M. Kato, T. Fukui, K. Miura, M. Tsuda, S. Okada, T. Fukushima, H. Nakamura, *Mol. Pharmaceutics*, 22(5), 2660–2670 (2025).

Methylene Insertion into Nitrogen by-Heteroatom σ -Bonds of 1,2-Azoles via a Zinc Carbenoid: An Alternative Tool for Skeletal Editing. M. Tsuda, T. Morita, Y. Morita, J. Takaya, H. Nakamura, *Adv. Sci.*, 11, 2307563 (2024).

Efficient neutron capture therapy of glioblastoma with pteroyl-closo-dodecaborate-conjugated 4-(p-iodophenyl)butyric acid (PBC-IP), K. Nishimura, H. Kashiwagi, T. Morita, Y. Fukuo, S. Okada, K. Miura, Y. Matsumoto, Y. Sugawara, T. Enomoto, M. Suzuki, K. Nakai, S. Kawabata, H. Nakamura, *J. Control. Release*, 360, 249-259 (2023).

Enantioselective Synthesis of Oxazaborolidines by Palladium-Catalyzed N–H/B–H Double Activation of 1,2-Azaborines, T. Morita, H. Murakami, Y. Asawa, H. Nakamura, *Angew. Chem. Int. Ed.*, 61(7), e202113558 (2022).

Proximity Histidine Labeling by Umpolung Strategy Using Singlet Oxygen, K. Nakane, S. Sato, T. Niwa, M. Tsushima, S. Tomoshige, H. Taguchi, M. Ishikawa, H. Nakamura, *J. Am. Chem. Soc.* 143, 20, 7726–7731 (2021)

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