

Young-Tae Chang

Curriculum Vitae

Professor

Department of Chemistry, POSTECH, Korea



● Educational Background & Professional Experience

2017–Present	Professor, Chemistry, POSTECH
2007–2017	Associate & Full Professor, Chemistry, National University of Singapore
2000–2007	Assistant, Associate professor, NYU Chemistry

● Research Interests

Fluorescence Library for Live Cell Imaging

Probe Development for Aging

Reverse Aging Platform through Photodynamic Therapy

● Publications

1. Super-Photostable Organic Dye for Long-Term Live-cell Single Protein Imaging, Kim, D. H.*; Triet, H. M.; Lee, S. H.; Jazani, S.; Jang, S.; Abedi, S. A. A.; Xiang, L.; Seo, J.; Ha, T.; Chang, Y. T.*; Ryu, S. H.* Nat. Methods, 2025, 22(3), 550–558.
2. A Pair of Fluorescent Probes Enabling Precise Diagnosis of Liver Cancer by Complementary Imaging, Gao, M.; Lee, S. H.; Kwon, H. Y.; Ciaramicoli, L. M.; Jo, E.; Yu, Y. H.; Li, F.; Kim, B.; Hong, K.; Lee, J. S.; Kim, N.; Oh, Y.; Im, C. Y.; Tan, C. S. H.*; Ha, H. H.*; Chang, Y. T.* ACS Cent. Sci. 2024, 11(1), 76–83.
3. Atom Efficient Synthesis of Trimethine Cyanines Using Formaldehyde as a Single Carbon Source, Lee, S. H.; Lee, T. J.; Sarkar, S.; Cho, H.; Pham, Q. N. N.; Chang, Y. T.* Angew. Chem. Int. Ed. Engl. 2025, 64 (1): e202413121.
4. NeuM: A Neuron-Selective Probe Incorporates into Live Neuronal Membranes via Enhanced Clathrin-Mediated Endocytosis in Primary Neurons, Sung, Y.; Gotina, L.; Kim, K. H.; Lee, J. Y.; Shin, S.; Aziz, H.; Kang, D. M.; Liu, X.; Hong, N. K.; Lee, H. G.; Lee, J. S.; Ku, H.; Jeong, C.; Pae, A. N.; Lim, S.*; Chang, Y. T.*; Kim, Y. K.* Angew. Chem. Int. Ed. Engl. 2024, 63(3), e202312942.
5. Development of a Fluorescent Probe for M2 Macrophages via Gating-Oriented Live-Cell Distinction, Cho, H.; Kwon, H. Y.; Lee, S. H.; Lee, H. G.; Kang, N. Y.*; Chang, Y. T.* J. Am. Chem. Soc. 2023, 145(5), 2951–2957.