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Research Keywords

Bioactive peptide, Cell surface protein phase separation, Peptide drug, Drug delivery

Academic Career

B.S., 1999, Tsinghua University; Ph.D., 2004, Tsinghua University (advisor: Yan-Mei Li); Postdoctoral Training, 2004-2008, University of Texas (advisor: Renhao Li); Associate Professor, 2008-2011, Beijing University of Chemical Technology, 2011-present, Beijing University of Chemical Technology

Selected Publications

CpG-A induces liquid-liquid phase separation of HMGB1 to activate RAGE-mediated inflammatory pathway. Kaihui Peng,... Shi-Zhong Luo* et al. PNAS, 2025 112, 37, e2505826122.

Drug Molecule Recruitment Empowered by Phase Separation on Cell Membranes In Vivo. Gangfei Duan, ...Shi-Zhong Luo* et al. JACS Au 2025, 5, 2567.

Phase separation on cell surface facilitates bFGF signal transduction with heparan sulphate. Song Xue, ...Shi-Zhong Luo* et al. Nature Communications 2022, 13, 1112.

"Computer-Aided Design of Lasso-like Self-Assembling Anticancer Peptides with Multiple Functions for Targeted Self-Delivery and Cancer Treatments. Pengfei Pei, ...Shi-Zhong Luo* et al. ACS Nano 2022, 16, 13783."

Why My Lab?

My lab can offer...

Innovative techniques