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Research Keywords

PTMs of protein, Vaccine, cGAS-STING

Academic Career

B.S., 1987, Tsinghua University; Master, 1989, Tsinghua University; Ph.D., 1992, Tsinghua University (advisor: Yu-Fen Zhao); Postdoctoral Training, 1996-1997, Karlsruhe University (advisor: Herbert Waldmann); Lecture, 1992-1993, Tsinghua University; Assistant Professor, 1993-1998, Tsinghua University; Professor, 1998-present, Tsinghua University

Selected Publications

Shao-Hua Zhuo†, Tian-Yang Wang†, Lang Zhao, Jing-Yun Su, Jin-Jian Hu, Yu-Fen Zhao and Yan-Mei Li* "piSTING: A Pocket-Independent Agonist Based on Multivalency-Driven STING Oligomerization" *Angewandte Chemie- International Edition*, 2024, 63(38):e202407037 DOI: 10.1002/anie.202407037

Pei-Yang He†, Yusai Zhou†, Pu-Guang Chen†, Meng-Qian Zhang†, Jin-Jian Hu, Yeh-Jun Lim, Hongjie Zhang, Kai Liu* and Yan-Mei Li* "A Hydroxylamine-Mediated Amidination of Lysine Residues That Retains the Protein's Positive Charge" *Angewandte Chemie- International Edition*, 2024, 63, e202402880 DOI: 10.1002/anie.202402880

Jinjian Hu†, Wencheng Xia†, Shuyi Zeng†, Yeh-Jun Lim†, Youqi Tao, Yunpeng Sun, Lang Zhao, Haosen Wang, Weidong Le, Dan Li, Shengnan Zhang, Cong Liu*, Yan-Mei Li* "Phosphorylation and O-GlcNAcylation at the same α -synuclein site generate distinct fibril structures" *Nature Communications*, 2024, 15, article number 2677 DOI: 10.1038/s41467-024-46898-1

Wen-Hao Li, Jing-Yun Su, Yan-Mei Li* "Rational Design of T-Cell- and B-Cell-based Therapeutic Cancer Vaccines" *Accounts of Chemical Research*, 2022, 55(18), 2660-2671 (supplementary cover) DOI: 10.1021/acs.accounts.2c00360

Yemima Butler#, Yu-Qing Liu#, Ramhari Kumbhar, Peiran Zhao, Kundlik Ghadave, Ning Wang, Yan-Mei Li, Xiaobo Mao*, and Wenjing Wang* " α -Synuclein fibril-specific nanobody reduces prion-like α -synuclein spreading in mice" *Nature Communications*, 2022, 13, Article number: 4060 DOI: 10.1038/s41467-022-31787-2

Mengqian Zhang, Peiyang He and Yanmei Li* "Light-Initiated 1,3-Dipolar Cycloaddition Between Dehydroalanines and Tetrazoles: Application to Late-Stage Peptide and Protein Modifications" *Chemical Science*, 2023, 14, 9418 - 9426 DOI: 10.1039/D3SC02818F

Shengnan Zhang#, Yu-Qing Liu#, Chunyu Jia#, Yeh-Jun Lim#, Guoqin Feng#, Enquan Xu, Houfang Long, Yasuyoshi Kimura, Youqi Tao, Chunyu Zhao, Chuchu Wang, Zhenying Liu, Jin-Jian Hu, Meng-Rong Ma, Zhijun Liu, Lin Jiang, Dan Li, Renxiao Wang, Valina L. Dawson, Ted M. Dawson*, Yan-Mei Li*, Xiaobo Mao*, Cong Liu* "Mechanistic basis for receptor-mediated pathological α -synuclein fibril cell-to-cell transmission in Parkinson's disease" *Proc Natl Acad Sci USA*, 2021, 118 (26), e2011196118; DOI: 10.1073/pnas.2011196118

Kun Zhao#, Yeh-Jun Lim#, Zhenying Liu#, Houfang Long, Yunpeng Sun, Jin-Jian Hu, Chunyu Zhao, Youqi Tao, Xing Zhang, Dan Li, Yan-Mei Li*, Cong Liu* "Parkinson's disease-related phosphorylation at Tyr39 rearranges α -synuclein amyloid fibril structure revealed by cryo-EM" Proc Natl Acad Sci USA, 2020, 117(33): 20305-20315
DOI: 10.1073/pnas.1922741117

Why My Lab?

My lab can offer...

Synthesis of modified proteins