

Zhu Liu

D.O.B.: 1986/09

Place of Birth: Hunan

Major: Analytical chemistry、 Biochemistry、 Biophysics、 Biomolecular Dynamics

Contact: 13429813420 (Tel) liuzhu@wipm.ac.cn (E-mail)

Address: Yin hai hua ting, ba yi road, Wuhan Post code: 430071

Education, work experience:

now: professor of the College of Life and Technology, Huazhong Agricultural University

2014-2017: Zhejiang University, School of basic medical sciences

Postdoc, Supervised by Chun Tang

2009-2014: Chinese academy of sciences, Wuhan institute of physics and mathematics, Analytical chemistry *PhD, Supervised by Chun Tang*

2005-2009: Wuhan University, College of chemistry and molecular science, Applied chemistry *BS, Supervised by Xiang Zhou*

Selected publications:

First author or corresponding author:

1. **Liu Z**, Gong Z, Cao Y, Ding YH, Dong MQ, Lu YB, Zhang WP, Tang C. Characterizing Protein Dynamics with Integrative Use of Bulk and Single-Molecule Techniques. *Biochemistry-US* (2017), doi: 10.1021/acs.biochem.7b00817.
2. Dong X, Gong Z, Qin LY, Ran ML, Zhang CL, Liu K, **Liu Z*** (co-corresponding author), Zhang WP*, Tang C*. Ubiquitin S65 phosphorylation engenders a pH-sensitive conformational switch. *Proc Natl Acad Sci USA* (2017), 114(26):6770-6775.
3. **Liu Z**, Gong Z, Dong X and Tang C. Transient protein-protein interactions visualized by solution NMR. *BBA Proteins and Proteomics* (2016), 1864(1):115-122.

4. **Liu Z**, Gong Z, Jiang WX, Yang J, Zhu WK, Guo DC, Zhang WP, Liu ML and Tang C. Lys63-linked ubiquitin chain adopts multiple conformational states for specific target recognition. *Elife* (2015), 4:e05767.
5. **Liu Z**, Gong Z, Guo DC, Zhang WP and Tang C. Subtle dynamics of holo glutamine binding protein revealed with a rigid paramagnetic probe. *Biochemistry-US* (2014), 53(9):1403-1409.
6. **Liu Z**, Zhang WP, Xing Q, Ren XF, Liu ML and Tang C. Noncovalent dimerization of ubiquitin. *Angew Chem Int Ed* (2012), 51, 469-472 (hot paper).

Co-author:

1. Ding YH, Gong Z, Dong X, Liu K, **Liu Z**, Liu C, He SM, Dong MQ, Tang C. Modeling protein excited-state structures from "over-length" chemical cross-links. *J Biol Chem* (2017), 292(4):1187-1196.
2. Wang X, Feng J, Xue Y, Guan ZY, Zhang DL, **Liu Z**, Gong Z, Wang Q, Huang JB, Tang C, Zou TT, Yin P. Structural basis of N6-adenosine methylation by the METTL3–METTL14 complex. *Nature* (2016), 534(7608):575-578.
3. Zhang JR, Liu N, Chacho RA, Gong Z, **Liu Z**, Qin WM, Tang C, Tang Y, Zhou JH.. Structural basis of nonribosomal peptide macrocyclization in fungi. *Nat Chem Bio* (2016), 12(12):1001-1003.

Grants Support:

1. The China Postdoctoral Science Foundation for additional support, 2015M571860. 2015/01-2016/12, 50,000 RMB, Chief.
2. The open foundation project of the State Key Laboratory of Magnetic Resonance and Atomic and Molecular Physics, T151406, 2014/10-2016/12, 60,000 RMB, Chief.
3. The China Postdoctoral Science Foundation for additional support, 2016T90537, 2016/01-2017/06, 150,000RMB, Chief.

4. The National Natural Science Foundation of China, 3150040016, 2016/01-2018/12, 200, 000 RMB, Chief.