3-17 Renming South Road, Chengdu, China
Phone: 18180998475
Email: yuliuscu@scu.edu.cn

Yu Liu（刘玉）, *PhD*

Key Research Interests

- To investigate the molecular mechanisms of p53 cooperating with its neighbor genes in cancer
- To establish novel genetically defined preclinical cancer models
- To generate novel targeted therapies of cancer using high-throughput RNAi and CRISPR pooled library screening technologies with these cancer models
- To investigate impact of aneuploidy on cancers.

Education and Training

2015-present **Professor**, State Key Laboratory of Biotherapy and Cancer Center, Sichuan University, West China Hospital, Chengdu, China

2010-2015 **Research Fellow**, Cold Spring Harbor Spring Laboratory, *NY, USA* and
Research Scholar, Memorial Sloan Kettering Cancer Center, *NY, USA*
Mentor: Dr. Scott W. Lowe

2008-2010 **Research Fellow**, University of Michigan, *Ann Arbor*, *USA*
Mentor: Drs. Pan Zheng and Yang Liu

2001-2008 **PhD**, Albert Einstein College of Medicine, *Bronx*, *NY, USA*.
Mentors: Dr. Amy Chang

1997-2000 **MS**, Beijing Normal University, *Beijing, China*

1997-2000 **BS**, Beijing Normal University, *Beijing*, *China*

Teaching and Mentoring Experience

2015 Scientific Writing in English in Sichuan University

2011 Science 101 in Cold Spring Harbor Laboratory

2011 Science camp in I-CON at SUNY Stony Brook

2003-2008 Mentor and in lab supervisor for five rotating or exchange students

1998 Teaching assistant in the molecular biology and biochemistry laboratory course

Publication

1. **Liu, Yu***, Chen, C. *, Xu, Z., Scuoppo, C., Rillahan, CD., Gao, J., Spitzer, B., Bosbach, B., Kastenhubr, ER., Baslan, T., Ackermann, S., Cheng, L., Wang, Q., Niu, T., Schultz, N., Levine, RL., Mills, AA.& Lowe, SW., Deletions linked to *TP53* loss drive cancer through p53-independent mechanisms. 2016, *Nature*,531:471-5. (* equally contribution)
2. Ye, P.,* **Liu, Yu**,* Chen, C., Liu, CG., Liu, X., Liu, Y. & Zheng, P., miRNA biogenesis regulated by the TOR pathway. 2014, *Molecular Cell*, (* equally contribution)
3. Chen, C., **Liu, Yu**, Rappaport, AR., Kitzing, T., Schultz N., Zhao, Z., Shroff, AS., Dickins, R., Vakoc, Cr., Bradner, Je., Stock, W., LeBeau, MM., Shannon, KM.., Kogan, S., Zuber, J & Lowe, SW. MLL3 is a

haploinsufficient 7q tumor suppressor in acute myeloid leukemia. 2014, *Cancer Cell,* 25(5):652

4. Chen, C., **Liu, Yu**, Lu, C., Cross, JR., Morris JP 4th, Shroff AS, Ward PS, Bradner JE, Thompson C & Lowe SW. Cancer-associated IDH2 mutants drive an acute myeloid leukemia that is susceptible to Brd4 inhibition. 2013, *Genes Dev*., 27(18):1974
5. Wu, Q., **Liu, Yu**, Chen, C., Ikenoue, T., Qiao, Y., Li, CS., Li, W., Guan, KL., Liu, Y., & Zheng, P., The Tuberous Sclerosis Complex-Mammalian Target of Rapamycin Pathway Maintains the Quiescence and Survival of Naive T Cells. 2011, *J Immunol.,* 187(3):1106
6. Chen, C., **Liu, Yu**, Liu,Y. & Zheng, P., LiuMammalian target of rapamycin activation underlies HSC defects in autoimmune disease and inflammation in mice. 2010, *J Clin Invest,* 120(11): 4091
7. Chen, C., **Liu, Yu**, Liu,Y. & Zheng, P., mTOR regulation and therapeutic rejuvenation of aging hematopoietic stem cells. 2009, *Sci Signal*, 2(98):ra75
8. Chen, C., **Liu, Yu**, Liu, Y. & Zheng, P., The axis of mTOR-mitochondria-ROS and stemness of the hematopoietic stem cells. 2009, *Cell Cycle*, 8:1158
9. Chen, C., **Liu, Yu**, Liu, R., Ikenoue, T., Guan, KL., Liu, Y. & Zheng, P., TSC-mTOR maintains quiescence and function of hematopoietic stem cells by repressing mitochondrial biogenesis and reactive oxygen species. 2008, *J Exp Med*., 205:2397
10. **Liu, Yu** & Chang, A., A mutant plasma membrane protein is stabilized upon loss of Yvh1, a novel ribosome assembly factor. 2008, *Genetics,*181(3):907
11. **Liu, Yu** & Chang, A., Heat shock response relieves ER stress. 2008, *EMBO J.* 27(7):1049
12. Han, S., **Liu, Yu** & Chang, A., Cytoplasmic Hsp70 promotes ubiquitination for ER-associated degradation of a misfolded mutant of the yeast plasma membrane ATPase, *PMA1*. 2007, *J Biol Chem.* 282:26140
13. **Liu, Yu**, Sitaraman, S., Chang, A., Multiple degradation pathways for misfolded mutants of the yeast plasma membrane ATPase, Pma1. 2006, *J Biol Chem.* 281(42):31457
14. **Liu, Yu**, Chang, A., Quality control of a mutant plasma membrane ATPase: ubiquitylation prevents cell-surface stability. 2006, *J Cell Sci.* 119:360
15. Wei, Q, Holzer, M., Brueckner, MK., **Liu Yu**, Arendt, T., Dephosphorylation of tau protein by calcineurin triturated into neural living cells. 2002, *Cell Mol Neurobiol.* 22:13
16. Wei Q, Cui L, **Liu Yu**, et al., The experiment guide for molecular biology, *China Higher Eduation Press Beijing and Springer-Verlag Heidelberg,* 1999.

Honors

2014	AACR-Millennium Fellowships in Lymphoma Research
1996	Biochemistry Scholarship, Beijing Normal University
1994	Biochemistry Scholarship, Beijing Normal University