Shu-Chun Teng, Ph.D.

Affiliation:

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Academic History:

1989	Chemistry,	B.S. in Chemistry, National Taiwan University, Taiwan, ROC
1996	Biochemistry and Molecular Biology,	PhD in Biochemistry and Molecular Biology, Rutgers University, USA

Professional/Scientific Career:

1997-2000	Visiting Research Fellow	Department of Molecular Biology Princeton University
1998-2000	Instructor	Department of Molecular Biology, Princeton University
2006-2009	Section Chief	Biohazard Control Section of Environmental Protection, Occupational Safety and Health Center, National Taiwan University, Taiwan, ROC
2010-2012	Vice Director & Director	Office of Research and Development, College of Medicine, National Taiwan University, Taiwan, ROC
2009-2012	Director	Environmental Protection, Occupational Safety and Health Center, College of Medicine, National Taiwan University, Taiwan, ROC
2000-Now	Assistant, Associate, Full & Distinguished Professor	Department of Microbiology College of Medicine National Taiwan University, Taiwan, ROC
2011-Now	Director	Department of Microbiology,

		College of Medicine,
		National Taiwan University, Taiwan, ROC
2012-Now	Associate Dean	College of Medicine,
		National Taiwan University, Taiwan, ROC
2013-Now	Chair	Life Science Section, National Science Council

Awards/Professional Societies:

1. Blue Apricot Medical Award, Taiwan, 2011
2. NSC Excellent Scholar Award, Taiwan, 2009
3. NTU Excellent Research Award, Taiwan, 2009
4. Young Investigator Award, Yung Shin Tian-De Lee Medical and Pharmaceutical Science and Technology, Taiwan, 2008
5. Academia Sinica Research Award for Junior Research Investigators, Taiwan, 2004
6. Da-You Wu Memorial Award, National Science Council, Taiwan, 2003
7. Fellow, Department of Defense, U.S. Army Breast Cancer Research, 1997~2000
8. Rutgers Predoctoral Fellowship, 1991

Research Area/ Interests:

Stress Response and Aging

Research in our lab is centered around the molecular basis of genome dynamics and stress response in cancer and aging by systematically identifying both enzymatic and structural components involved in the chromosome dynamics, stress response and aging pathways, and characterizing how these proteins work. Genomic instability is the leading cause for disease and telomere maintenance is a required step for cancer and aging. We take advantage of the genetically tractable model organisms yeast *Saccharomyces cerevisiae* and *Schizosaccharomyces pombe* to approach these questions and use our findings in yeast to extend our studies in mammalian cells, since the fundamental mechanisms of these pathways are preserved from yeast to human.

Publications * corresponding author

Selected publications (Original article, ; Review,)

1. Shen, Z.-J. and Hsu, P.-H. and Su, Y.-T. and Yang, C.-W. and Kao, L. and Tseng, S.-F. and Tsai, M.-D. and **Teng, S.-C.**, **NTU: SHU-CHUN TENG**, *Corrigendum: PP2A and Aurora differentially modify Cdc13 to promote telomerase release from telomeres at G2/M phaseNature Communications2015*, journal-articlevol.6

2. Chang, Y.-L. and Hsieh, M.-H. and Chang, W.-W. and Wang, H.-Y. and Lin, M.-C. and Wang, C.-P. and Lou, P.-J. and **Teng, S.-C.**, **NTU: SHU-CHUN TENG**, *Instability of succinate dehydrogenase in SDHD polymorphism connects reactive oxygen species production to nuclear and mitochondrial genomic mutations in yeastAntioxidants and Redox Signaling2015*, journal-articlevol.22,no.7,page.587-602
3. Kuo, Y.-C. and Wu, H.-T. and Hung, J.-J. and Chou, T.-Y. and **Teng, S.-C.** and Wu, K.-J., **NTU: SHU-CHUN TENG**, N*ijmegen breakage syndrome protein 1 (NBS1) modulates hypoxia inducible factor-1α (HIF-1α) stability and promotes in vitro migration and invasion under ionizing radiationInternational Journal of Biochemistry and Cell Biology2015*, journal-articlevol.64,page.229-238
4. Hsieh, M.-H. and Tsai, C.-H. and Lin, C.-C. and Li, T.-K. and Hung, T.-W. and Chang, L.-T. and Hsin, L.-W. and T**eng, S.-C., NTU: SHU-CHUN TENG**, *Topoisomerase II inhibition suppresses the proliferation of telomerase-negative cancersCellular and molecular life sciences : CMLS2015*, journal-articlevol.72,no.9,page.1825-1837
5. Hsieh, M.-Y. and Fan, J.-R. and Chang, H.-W. and Chen, H.-C. and Shen, T.-L. and **Teng, S.-C.** and Yeh, Y.-H. and Li, T.-K., **NTU: SHU-CHUN TENG**, TSAI-KUN LI, *DNA topoisomerase III alpha regulates P53-mediated tumor suppressionClinical Cancer Research2014* , journal-articlevol.20,no.6,page.1489-1501