

BIOGRAPHICAL SKETCH

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NAME Tang, Chun	POSITION TITLE Assistant Professor		
eRA COMMONS USER NAME (credential, e.g., agency login)			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Zhejiang University, China	B.S.	1998	Biology
University of Maryland, Baltimore County	Ph.D.	2003	Biochemistry
National Institutes of Health	Postdoc	2003-2008	NMR Structural Biology

A. Positions and Honors.

- 2008- Assistant Professor, Department of Biochemistry, University of Missouri-Columbia
 2008- Core faculty, Informatics Institute, University of Missouri-Columbia
 2008- Adjunct Assistant Professor, Department of Physics, University of Missouri-Columbia

B. Selected peer-reviewed publications (in chronological order).

- Gu T, Tang C, Xu ZD. (1999) Synthesis of C-60 nitroxide derivatives. *Chinese Chemical Letters* 10: 95-96.
- Gu T, Tang C, Xu ZD. (1999) Two methods to synthesize C-60 nitroxide derivatives. *Fullerene Science and Technology* 7: 297-303.
- Baldisseri DM, Rustandi RR, Zhang ZS, Tang C, Bair CL, Landar A, Zimmer D B, Weber DJ. (1999) Letter to the Editor: H-1, C-13 and N-15 NMR sequence-specific resonance assignments for rat apo-S100A1 (alpha). *J. Biomol. NMR* 14: 91-92.
- Lin J, Blake M, Tang C, Zimmer D, Rustandi RR, Weber DJ, Carrier F. (2001) Inhibition of p53 transcriptional activity by the S100B calcium-binding protein. *J. Biol. Chem.* 276: 35037-35041.
- Gatanaga H, Suzuki Y, Tsang H, Yoshimura K, Kavlick M F, Nagashima K, Gorelick RJ, Mardy S, Tang C, Summers MF, Mitsuya H. (2002) Amino acid substitutions in Gag protein at non-cleavage sites are indispensable for the development of a high multitude of HIV-1 resistance against protease inhibitors. *J. Biol. Chem.* 277: 5952-5961.
- Tang C, Ndassa Y, Summers MF. (2002) Structure of N-terminal 283-residue fragment of the HIV-1 Gag protein. *Nat. Struct. Biol.* 9: 537-543.
- Tang C, Loeliger E, Kinde I, Kyere S, Mayo K, Barklis E, Sun Y, Huang M, Summers MF. (2003) Antiviral inhibition of the HIV-1 capsid protein. *J. Mol. Biol.* 327: 1013-1020.
- Tang C, Loeliger E, Luncsford P, Kinde I, Beckett D, Summers MF. (2004) Entropic switch regulates myristate exposure in the HIV-1 matrix protein. *Proc. Natl. Acad. Sci. U.S.A.* 101: 517-522.
- Tang C, Williams DC, Ghirlando R, Clore GM. (2005) Solution structure of enzyme IIA(Chitobiose) from the N, N'-diacetylchitobiose branch of the Escherichia coli phosphotransferase system. *J. Biol. Chem.* 280: 11770-11780.
- Suh JY, Tang C, Cai M, Clore GM. (2005) Visualization of the phosphorylated active site loop of the cytoplasmic B domain of the mannitol transporter II(Mannitol) of the Escherichia coli phosphotransferase system by NMR spectroscopy and residual dipolar couplings. *J. Mol. Biol.* 353: 1029-1036.
- Tang C, Iwahara J, Clore GM. (2005) Accurate determination of Leucine and Valine side-chain conformation using U-[¹⁵N/¹³C/²H]/[¹H-(methine/methyl)-Leu/Val] isotope labeling, NOE pattern recognition, and methine C_γ-H_γ/C_β-H_β residual dipolar couplings: Application to the 34kDa enzyme IIA(Chitobiose). *J. Biomol. NMR* 33: 105-121.

12. Tang C, Clore GM. (2006) A simple and reliable approach to docking protein-protein complexes from very sparse NOE-derived intermolecular distance restraints. *J. Biomol. NMR* 36: 37-44.
13. Tang C, Iwahara J, Clore GM. (2006) Visualization of transient encounter complexes in protein-protein association. *Nature* 444: 383-386.
14. Iwahara J, Tang C, Clore GM. (2007) Practical aspects of ¹H transverse paramagnetic relaxation enhancement measurements on macromolecules. *J. Mag. Reson.* 184: 185-195.
15. Kelly BN, Kyere S, Kinde I, Tang C, Howard BR, Robinson H, Sundquist WI, Summers MF, Hill CP. (2007) Structure of the antiviral assembly inhibitor CAP-1 complex with the HIV-1 CA protein. *J. Mol. Biol.* 373:355-366.
16. Tang C, Schwieters C, Clore GM. (2007) Open-to-closed transition in apo maltose-binding protein observed by paramagnetic NMR. *Nature* 449:1078-1082.
17. Suh JY, Tang C, Clore GM. (2007) Role of electrostatic interactions in transient encounter complexes in protein-protein association investigated by paramagnetic relaxation enhancement. *J. Am. Chem. Soc.* 129:12954-12955.
18. Clore GM, Tang C, Iwahara J. (2007) Elucidating transient macromolecular interactions using paramagnetic relaxation enhancement. *Curr. Opin. Struct. Biol.* 17:603-616.
19. Tang C, Ghirlando R, Clore GM. (2008) Visualization of transient ultra-weak protein self-association in solution using paramagnetic relaxation enhancement. *J. Am. Chem. Soc.* 130:4048-4056.
20. Kim YC, Tang C, Clore GM, Hummer G. (2008) Replica exchange simulations of transient encounter complexes in protein-protein association. *Proc. Natl. Acad. Sci. U.S.A.* 105:12855-12860.
21. Tang C, Louis JM, Anita A, Suh JY, Clore GM. (2008) Visualizing transient events in N-terminal auto-processing of HIV-1 protease. *Nature*. accepted for publication.