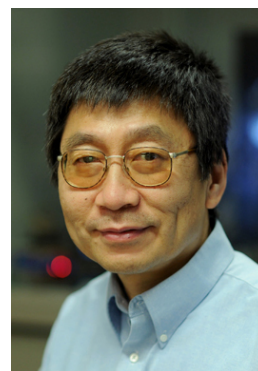


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EDUCATION:

Ph.D., Biophysical Chemistry (Protein Crystallography). December, 1989
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B.Sc., Chemistry. July, 1983
Peking University (Beijing, P.R. China)

EXPERIENCE:

September, 1997 — present

Department of Biological Sciences, Columbia University, New York, New York
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Department Chair (July 2013–June 2019)
Professor (July 2004–Jan. 2015), Associate Professor (Sept. 1997–June 2004)

August, 1992 — August, 1997

Boehringer Ingelheim Pharmaceuticals, Inc., Ridgefield, Connecticut
Principal Scientist (Jan. 1996–Aug. 1997), Senior Scientist (Aug. 1992–Dec. 1995)

August, 1989 — July, 1992

Purdue University, West Lafayette, Indiana
Post-Doctoral Research Associate (Prof. Michael G. Rossmann)

August, 1984 — July, 1989

University of California, Berkeley
Graduate Research Assistant (Prof. Sung-Hou Kim)
Teaching Assistant

January, 1983 — July, 1983

Peking University, Beijing, China
Undergraduate Research Assistant (Prof. You-Qi Tang)

HONORS:

Phi Beta Kappa, Sigma Xi, 1989.

The Vice President's Golden Achievement Award, 1996.

Boehringer Ingelheim Pharmaceuticals, Inc. Ridgefield, CT.

The first Boehringer Ingelheim worldwide Research and Development Award, 1997.

American Association for the Advancement of Science (AAAS) Fellow, 2009.

American Crystallographic Association (ACA) Fellow, 2021.

PUBLICATIONS:

316 total (268 papers + 48 reviews/book chapters. <http://tonglab.biology.columbia.edu/publst.shtml>)
h-index: 90 (https://scholar.google.com/citations?user=_vdf32oAAAAJ&hl=en)

updated Jan. 2023

Selected publications (since 2003):

1. G. Jogl & L. Tong. (2003). Crystal structure of carnitine acetyltransferase and implications for the catalytic mechanism and fatty acid transport. *Cell*, 112, 113-122.
2. H. Zhang, Z. Yang,* Y. Shen* & L. Tong. (2003). Crystal structure of the carboxyltransferase domain of acetyl-coenzyme A carboxylase. *Science*, 299, 2064-2067. (*-equal second authors)
3. Y.-H. Chen, M.-H. Li, Y. Zhang, L.-L. He, Y. Yamada, A. Fitzmaurice, Y. Shen, H. Zhang, L. Tong & J. Yang. (2004). Structural basis of α_1 - β subunit interaction of voltage-gated Ca^{2+} channels. *Nature*, 429, 675-680.
4. C.R. Mandel, S. Kaneko,* H. Zhang,* D. Gebauer, V. Vethantham, J.L. Manley & L. Tong. (2006). Polyadenylation factor CPSF-73 is the pre-mRNA 3'-end-processing endonuclease. *Nature*, 444, 953-956. (*-equal second authors)
5. G.A. Amodeo,* M.J. Rudolph* & L. Tong. (2007). Crystal structure of the heterotrimer core of *Saccharomyces cerevisiae* AMPK homologue SNF1. *Nature*, 449, 492-495. (*-equal first authors)
6. S. Xiang, A. Cooper-Morgan, X. Jiao, M. Kiledjian, J.L. Manley & L. Tong. (2009). Structure and function of the 5'→3' exoribonuclease Rat1 and its activating partner Rai1. *Nature*, 458, 784-788.
7. C.S. Huang,* K. Sadre-Bazzaz,* Y. Shen, B. Deng, Z.H. Zhou & L. Tong. (2010). Crystal structure of the $\alpha_6\beta_6$ holoenzyme of propionyl-coenzyme A carboxylase. *Nature*, 466, 1001-1005. (*-equal first authors)
8. X. Jiao, S. Xiang, C.-S. Oh, C.E. Martin, L. Tong & M. Kiledjian. (2010). Identification of a quality-control mechanism for eukaryotic mRNA 5'-end capping. *Nature*, 467, 608-611.
9. K. Xiang, T. Nagaike,* S. Xiang,* T. Kilic, M.M. Beh, J.L. Manley & L. Tong. (2010). Crystal structure of the human symplekin-Ssu72-CTD phosphopeptide complex. *Nature*, 467, 729-733. (*-equal second authors)
10. C.S. Huang, P. Ge, Z.H. Zhou & L. Tong. (2012). An unanticipated architecture of the 750-kDa $\alpha_6\beta_6$ holoenzyme of 3-methylcrotonyl-CoA carboxylase. *Nature*, 481, 219-223.
11. D. Tan, W.F. Marzluff, Z. Dominski & L. Tong. (2013). Structure of histone mRNA stem-loop, human stem-loop binding protein and 3'hExo ternary complex. *Science*, 339, 318-321.
12. K. Sureka,* P.H. Choi,* M. Precit, M. Delince, D.A. Pensinger, T.N. Huynh, A.R. Jurado, Y.A. Goo, M. Sadilek, A.T. Iavarone, J.-D. Sauer, L. Tong[§] & J.J. Woodward.[§] (2014). The cyclic dinucleotide c-di-AMP is an allosteric regulator of metabolic enzyme function. *Cell*, 158, 1389-1401. (*-equal first authors, [§]-co-corresponding authors)
13. T.H. Tran, Y.-S. Hsiao, J. Jo, C.-Y. Chou, L.E.P. Dietrich, T. Walz & L. Tong. (2015). Structure and function of a single-chain, multi-domain long-chain acyl-CoA carboxylase. *Nature*, 518, 120-124.
14. B.A. Webb,* F. Forouhar,* F.-E. Szu, J. Seetharaman, L. Tong[§] & D.L. Barber.[§] (2015). Structures of human phosphofructokinase-1 and atomic basis of cancer-associated mutations. *Nature*, 523, 111-114. (*-equal first authors, [§]-co-corresponding authors)
15. J. Wei & L. Tong. (2015). Crystal structure of the 500-kDa yeast acetyl-CoA carboxylase holoenzyme dimer. *Nature*, 526, 723-727.
16. S. Luo & L. Tong. (2017). Molecular mechanism for the regulation of yeast separase by securin. *Nature*, 542, 255-259.
17. X. Jiao, S. Doamekpor, J.G. Bird, B.E. Nickels, L. Tong, R.P. Hart & M. Kiledjian. (2017). 5' end nicotinamide adenine dinucleotide cap in human cells promotes RNA decay through DXO-mediated deNADding. *Cell*, 168, 1015-1027.
18. J. Wei, S. Leit, J. Kuai, E. Therrien, S. Rafi, H.J. Harwood Jr, B. DeLaBarre & L. Tong. (2019). An allosteric mechanism for potent inhibition of human ATP-citrate lyase. *Nature*, 568, 566-570.
19. Y. Sun,* Y. Zhang,* W.S. Aik, X.-C. Yang, W.F. Marzluff, T. Walz[§], Z. Dominski[§] & L. Tong.[§] (2020). Structure of an active human histone pre-mRNA 3'-end processing machinery. *Science*, 367, 700-703. (*-equal first authors, [§]-co-corresponding authors)