

Peer-reviewed publications:

1. Hallden G, Hill R, Wang Y, Anand A, **Liu TC**, Lemoine NR, Hallenbeck P, Hawkins L, Kirn D. Novel immunocompetent murine tumor models for the assessment of replication-competent oncolytic adenovirus efficacy. *Molecular Therapy* 2003; 8(3): 412-24. PMID: 12946314
2. Wang Y, Hallden G, Hill R, Anand A, **Liu TC**, Francis J, Brooks G, Lemoine NR, Kirn D. E3 gene manipulations affect oncolytic adenovirus activity in immunocompetent tumor models. *Nature Biotechnology* 2003; 21(11): 1328-35. PMID: 14555956
3. **Liu TC**, Hallden G, Wang Y, Brooks G, Francis J, Lemoine NR, Kirn D. An E1B-19kD gene deletion mutant adenovirus demonstrates tumor necrosis factor-augmented cancer selectivity and enhanced oncolytic potency. *Molecular Therapy* 2004; 9(6): 786-803. PMID: 15194046
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5. **Liu TC**, Kirn D. Viruses with deletions in antiapoptotic genes as potential oncolytic agents. *Oncogene* 2005; 24(40): 6069-6079 (corresponding author). PMID: 16155595
6. **Liu TC**, Zhang T, Fukuhara H, Kuroda T, Todo T, Martuza R, Rabkin S, Kurtz A. Oncolytic HSV armed with platelet factor 4, an antiangiogenic agent, shows enhanced efficacy. *Molecular Therapy* 2006; 14(6): 789-797. PMID: 17045531
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9. **Liu TC**, Kirn D. Systemic efficacy with oncolytic virus therapeutics: clinical proof-of-concept and future directions. *Cancer Research* 2007; 67(2): 429-432. PMID: 17234747
10. Prabhakar S, Messerli S, Stemmer-Rachmimov A, **Liu TC**, Rabkin S, Martuza R, Breakefield XO. Treatment of schwannomas with oncolytic herpes simplex virus in mouse models of NF2. *Cancer Gene Therapy* 2007; 14(5): 460-467. PMID: 17304235
11. **Liu TC**, Wakimoto H, Martuza R, Rabkin S. HSV Us3(-) mutant as oncolytic strategy and synergizes with PI3K-Akt-targeting molecular therapeutics. *Clinical Cancer Research* 2007; 13(19): 5897-902 (corresponding author). PMID: 17908985
12. **Liu TC**, Kirn D. Targeting the untargetable: oncolytic virotherapy for the cancer stem cell. *Molecular Therapy* 2007; 15(12): 2060-1. PMID: 18026182
13. **Liu TC**, Castelo-Branco P, Rabkin S, Martuza R. Trichostatin A enhances antitumoral and antiangiogenic effects of oncolytic HSV. *Molecular Therapy* 2008; 16 (6): 1041-7 (corresponding author). PMID: 18388912
14. Park BH, Hwang TH, **Liu TC**, Sze D, Kim JS, Kwon HC, Oh SY, Han SY, Yoon JH, Hong SH, Moon A, Speth K, Daneshmand M, Pinedo HM, Bell JC, Kirn D. Use of a targeted oncolytic poxvirus, JX-594, in patients with refractory primary or metastatic liver cancer: a phase I trial. *The Lancet Oncology* 2008; 9 (6): 533 - 42. PMID: 18495536
15. **Liu TC***, Hwang TH*, Park BH, Kirn D. Oncolytic poxvirus JX-594 demonstrates antitumoral, antivascular, and anti-HBV activities in patients with hepatocellular carcinoma. *Molecular Therapy* 2008; 16(9): 1637 - 42 *: equal contribution. PMID: 18628758
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20. Aghi M*, **Liu TC***, Rabkin S, Martuza R. Hypoxia enhances oncolytic Herpes simplex virus replication. *Molecular Therapy* 2009; 17(1): 51 – 56 *: equal contribution. PMID: 18957963
21. Chang JF, Chen PJ, Sze DY, Reid T, Bartlett D, Kirn D, **TC. Liu**. Oncolytic virotherapy for advanced liver tumors. *Journal of Cellular and Molecular Medicine* 2009; 13(7): 1238-47 (corresponding author). PMID: 19175689
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23. Huang PI, Chang JF, Kirn D, **Liu TC**. Targeted genetic and viral therapy for advanced head and neck cancers. *Drug Discovery Today* 2009;14(11-12): 570-8 (corresponding author). PMID: 19508919
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25. Lun X, Chan J, Zhou H, Sun B, Kelly JJ, Stechishin OO, Bell JC, Parato K, Hu K, Vaillant D, Wang J, **Liu TC**, Breitbach C, Kirn D, Senger DL, Forsyth PA. Efficacy and Safety/toxicity study of recombinant vaccinia virus JX-594 in two immunocompetent animal models of glioma. *Molecular Therapy* 2010; 18(11): 1927-36. PMID: 20808290
26. Hwang TH, Moon A, Burke J, Ribas A, Stephenson J, Breitbach CJ, Daneshmand M, De Silva N, Parato K, Diallo JS, Lee YS, **Liu TC**, Bell JC, Kirn D. A mechanistic proof-of-concept clinical trial with JX-594, a targeted multi-mechanistic oncolytic poxvirus, in patients with metastatic melanoma. *Molecular Therapy* 2011; 19(10): 1913-22. PMID: 21772252
27. Hamilton NA, **Liu TC**, Cavatiao A, Mawad K, Chen L, Strasberg SS, Linehan DC, Cao D, Hawkins WG. Ki-67 predicts disease recurrence and poor prognosis in pancreatic neuroendocrine neoplasms. *Surgery* 2012; 152(1): 107-13. PMID: 22503317
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29. **Liu TC**, Nguyen T, Torbenson MS. Concurrent increase in mitosis and apoptosis in post-transplant liver biopsy: strong indication for hepatic artery thrombosis. *Modern Pathology*. 2012; 25(12): 1594-8. PMID: 22766789
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cell cystadenoma of the pancreas: a benign neoplasm or non-neoplastic ballooning of acinar and ductal epithelium? *American Journal of Surgical Pathology*. 2013; 37(9): 1329-35. PMID in progress.

Book chapters:

1. **Liu TC**, Kirn D. Problems, side effects, and disappointments in clinical cancer gene therapy. In *Gene Therapy for Cancer (Cancer Drug Discovery and Development Series*; Ed. Kelly Hunt and Stephan Vorburger). *Humana Press* 2006.
2. **Liu TC**, Thorne S, Kirn D. Oncolytic adenoviruses for cancer gene therapy. *Methods in Molecular Medicine* 2008, 434:243 - 58.
3. **Liu TC**, Brunt EM. Chapter 15: The Liver. *The Washington Manual of Surgical Pathology, 2nd Edition* 2012, 248-273.
4. **Liu TC**, Brunt EM. Chapter 16: Gallbladder and Extrahepatic Biliary Trees. *The Washington Manual of Surgical Pathology, 2nd Edition* 2012, 274-281.