

**JU-SEOG LEE, PH.D.**  
**ASSOCIATE PROFESSOR**

Department of Systems Biology  
University of Texas MD Anderson Cancer Center  
1515 Holcombe Boulevard - Unit 950  
Houston, TX 77030  
Tel: (713) 834-6154  
Fax: (713) 563-4235  
Email: jlee@mdanderson.org



**WORK EXPERIENCE**

2012 – Current: Associate Professor in UT M. D. Anderson Cancer Center  
2006 – 2011: Assistant Professor in UT M. D. Anderson Cancer Center  
2005 – 2006: Research Fellow in NCI, NIH  
1999 – 2005: CRTA Fellow in NCI, NIH  
1993 – 1999: Graduate Teaching and Research Assistant U. of Texas at Dallas

**HONORS AND AWARDS**

2009: Waun Ki Hong Award for Excellence in Team Science  
2007: V Scholar Award (V Foundation)  
2005: Johng S. Rhim Young Investigator Award (Society for Biomedical Research)  
2005: AACR-AFLAC, Incorporated Scholar-in-Training Award.  
2004: National Institutes of Health Fellow Award for Research Excellence (FARE)  
2002: National Institutes of Health Fellow Award for Research Excellence (FARE)  
2001: National Cancer Institute (NCI) Technology Transfer Award.

**SELECTED PUBLICATIONS (from 192 publications)**

1. Ock C-Y, Kim SB, Keam B, Hwang JE, Shim JJ, Jang HJ, Park S, Sohn BH, Cha M, Ajani JA, Kopetz S, Kim TM, Heo DS, **Lee J-S**. Genomic landscape associated with response to immunotherapies in major cancer types. **Nature Commun.** 2017 8(1):1050. PMID: 29051489.
2. Sohn BH, Hwang JE, Jang HJ, Lee HS, Oh SC, Shim JJ, Lee KW, Kim EH, Yim SY, Lee SH, Cheong JH, Jeong W, Cho JY, Kim J, Chae J, Lee J, Kang WK, Kim S, Noh SH, Ajani JA, **Lee J-S**. Clinical Significance of Four Molecular Subtypes of Gastric Cancer Identified by The Cancer Genome Atlas Project. **Clin Cancer Res.** 2017. [Epub ahead of print] PMID: 28747339  
**Highlighted in:** Press release by AACR.  
<http://www.aacr.org/Newsroom/Pages/News-Release-Detail.aspx?ItemID=1072#.WZ9RMIUrIUF>
3. Kang DH, Lee DJ, Lee S, Lee SY, Jun Y, Kim Y, Kim Y, **Lee J-S**, Lee DK, Lee S, Jho EH, Yu DY, Kang SW. Interaction of tankyrase and peroxiredoxin II is indispensable for the survival of colorectal cancer cells. **Nature Commun.** 2017. 8(1):40. PMID: 28659575
4. Cancer Genome Atlas Research Network. Comprehensive and Integrative Genomic Characterization of Hepatocellular Carcinoma. **Cell.** 2017. 169(7):1327-1341. PMID: 28622513
5. Weiler SM, Pinna F, Wolf T, Lutz T, Geldiyev A, Sticht C, Knaub M, Thomann S, Bissinger M, Wan S, Rössler S, Becker D, Gretz N, Lang H, Bergmann F, Ustiyani V, Kalin TV, Singer S, **Lee J-S**, Marquardt JU, Schirmacher P, Kalinichenko VV, Breuhahn K. Induction of Chromosome Instability by Activation of Yes Associated Protein and Forkhead box M1 in Liver Cancer. **Gastroenterology.** 2017. 152(8):2037-2051. PMID: 28249813
6. Lai KK, Kweon SM, Chi F, Hwang E, Kabe Y, Higashiyama R, Qin L, Yan R, Wu RP, Fujii N, French S, Xu J, Wang JY, Murali R, Mishra L, **Lee J-S**, Ntambi JM, Tsukamoto H. Stearoyl-CoA Desaturase Promotes Liver Fibrosis and Tumor Development in Mice via a Wnt Positive-Signaling Loop by Stabilization of Low-Density Lipoprotein-Receptor-Related Proteins 5 and 6. **Gastroenterology.** 2017 152(6):1477-1491. PMID: 28143772
7. Jang HJ, Lee HS, Burt BM, Lee GK, Yoon KA, Park YY, Sohn BH, Kim SB, Kim MS, Lee JM, Joo J, Kim HK, Kim SC, Yun JS, Na KJ, Choi YL, Park JL, Kim SY, Lee K, Lee YS, Han L, Liang H, Zo JI, Shim YM, **Lee J-S**. Integrated Genomic Analysis of Recurrence-Associated Small Non-coding RNAs in Oesophageal Cancer. **GUT** 2017 66(2):215-225. PMID: 27507904
8. Cancer Genome Atlas Research Network.; Integrated genomic characterization of oesophageal carcinoma. **Nature.** 2017 541(7636):169-175. PMID: 28052061
9. Lee KW, Lee SS, Oh SC, Jeong W, Lee SH, Kim SB, Park Y-Y, Sohn B, Cheong JH, Cho JY, Lim JY, Park

- ES, Jang Y-J, Mok Y-J, Jung WK, Kim B-H, Kim A, Lee K-W, Tan P, Noh SH, Ajani JA, **Lee J-S.** Development and validation of 6-gene recurrence score for gastric cancer. **Clin. Cancer Research**, 2016. 22(24):6228-6235. PMID: 27654712
10. Park YY, Sohn BH, Johnson RL, Kang MH, Kim SB, Shim JJ, Mangala LS, Kim JH, Yoo JE, Rodriguez-Aguayo C, Pradeep S, Hwang JE, Jang HJ, Lee HS, Rupaimoole R, Lopez-Berestein G, Jeong W, Park IS, Park YN, Sood AK, Mills GB, **Lee JS.** Activation of YAP1/TAZ by silencing Hippo pathway dictates clinical outcome and regulates uptake of amino acids for activation of mTORC1 in hepatocellular carcinoma. **Hepatology** 2016 63(1):159-72. PMID: 26389641
  11. Sohn BH, Shim J-J, Kim S-B, Jang KY, Kim SM, Kim JH, Hwang JE, Jang H-J, Lee H-S, Kim S-C, Jeong W, Kim SS, Park ES, Heo J, Kim YJ, Kim DG, Leem S-H, Kaseb A, Hassan MM, Chu I-S, Johnson RL, Park Y-Y, **Lee J-S.** Inactivation of hippo pathway is significantly associated with poor prognosis in hepatocellular carcinoma. **Clin. Cancer Res.** 2016. 22(5):1256-64. PMID: 26459179
  12. Lee KW, Lee SS, Kim SB, Sohn BH, Lee HS, Jang HJ, Park YY, Kopetz S, Kim SS, Oh SC, **Lee JS.** Significant Association of oncogene YAP1 with Poor Prognosis and Cetuximab Resistance in Colorectal Cancer Patients. **Clin Cancer Res.** 2015 21(2):357-64. PMID: 25388162.
  13. Kim JH, Sohn BW, Lee HS, Kim S-B, Yoo JE, Park Y-Y, Jeong W, Lee SS, Park ES, Kaseb A, Kim BH, Kim WB, Yeon JE, Byun KS, Chu I-S, Kim SS, Wang XW, Thorgeirsson SS, Luk JM, Kang KJ, Heo J, Park YN, **Lee J-S.** Genomic Predictors for Two Distinct Recurrence Patterns of Hepatocellular Carcinoma. **PLoS Medicine.** 2014. 11(12):e1001770. PMID: 25536056
  14. The Cancer Genome Atlas Research Network. Comprehensive molecular characterization of gastric adenocarcinoma. **Nature.** 2014 513(7517):202-9. PMID: 25079317
  15. Park Y-Y, Kim SB, Han HD, Sohn B-H, Kim J-H, Liang J, Lu Y, Rodriguez-Aguayo C, Lopez-Berestein G, Mills GB, Sood AK, **Lee J-S.** 2013. TARDBP regulates glycolysis in hepatocellular carcinoma by regulating PFKF through miR-520. **Hepatology** 58(1):182-91. PMID: 23389994
  16. Park YY, Jung SY, Jennings NB, Rodriguez-Aguayo C, Peng G, Lee SE, Kim SB, Kim K, Leem S-H, Lin S-Y, Lopez-Berestein G, Sood AK, **Lee J-S.** 2012. FOXM1 mediates doxorubicin resistance in breast cancer by enhancing DNA repair. **Carcinogenesis** 33(10):1843-53. PMID:22581827
  17. Kim SM, Leem S-H, Chu I-S, Park Y-Y, Kim S-C, Kim S-B, Park E-S, Lim J-Y, Heo J, Kim YJ, Kim D-G, Kaseb A, Park NY, Wang XW, Thorgeirsson SS, and Lee J-S. 65-gene based risk score predicts overall survival in hepatocellular carcinoma. **Hepatology** 2012. 55(5):1443-52. PMID:22105560
  18. Oh SC, Park Y-Y, Lim J-Y, Kim SM, Kim S-B, Kim J, Park E-S, Smith JJ, Baeachamp RD, Yeatman TJ, Kopetz S, and Lee J-S. 2012. Prognostic gene expression signature associated with two molecularly distinct subtypes of colorectal cancer. **GUT** 61(9): 1291-1298. PMID:21997556
  19. Park Y-Y, Kim K, Kim S-B, Hennessy BT, Kim SM, Park ES, Lim JY, Li J, Lu Y, Gonzalez-Angulo AM, Jeong W, Mills GB, Safe S, Lee J-S. 2012. Reconstruction of nuclear receptor network reveals that NR2E3 is a novel upstream regulator of ESR1 in breast cancer. **EMBO Mol. Med.** 4(1): 52-67. PMID:22174013.
  20. Park ES, Kim SJ, Kim, SW, Yoon S-L, Leem S-H, Kim S-B, Woo HG, Kim SM, Park Y-Y, Cheong JH, Woo HG, Mills GB, Fidler IJ, Lee J-S. 2011. Cross-species hybridization of microarray experiments revealed global reprogramming of transcriptome during brain metastasis. **Proc Natl Acad Sci U S A.** 108(42):17456-17461.
  21. Cho JY, Park Y-Y, Kim SM, Yoon S, Lim JY, Cheong JH, Park ES, Kim S-B, Kim H, Hong SW, Park YN, Noh SH, Chu I-S, Hong KW, Ajani JA, Lee J-S. 2011. Gene expression signature-based novel prognostic risk score in gastric cancer. **Clin. Cancer Res.** 17(7):1850-1857
  22. Lee, J-S., Leem, S-H., Lee, S-Y., Kim, S-C., Park, E-S., Kim, S-B., Kim, S-K., Kim, Y-J., Kim, W-J., and Chu, I-S. 2010. Expression signature of E2F1 and its associated genes predicts superficial-to-invasive progression of bladder tumors. **Journal of Clinical Oncology** 28(16):2660-2667.
  23. Lee, J-S., Heo, J., Libbrecht, L., Chu, I-S., Kaposi-Novak, P., Calvisi, D. C., Mikaelyan, A., Roberts, L. R., Demetris, A. J., Sun, Z., Nevens, F., Roskams, T., and Thorgeirsson, S. S. 2006. A novel prognostic subclass of hepatocellular carcinoma derived from hepatic stem cells. **Nature Medicine** 12(4):410-416.
  24. Lee, J-S., Chu, I-S., Mikaelyan A., Calvisi, D. F., Heo, J., Reddy, J. K., and Thorgeirsson, S. S. 2004. Application of comparative functional genomics to identify best-fit mouse models to study human cancer. **Nature Genetics** 36(12):1306-1311.
  25. Lee, J-S., Chu, I-S., Heo, J., Calvisi, D. F., Sun, Z., Roskams, T., Durnez, A., Demetris, A. J., and Thorgeirsson, S. S. 2004. Classification and survival prediction of hepatocellular carcinoma by gene expression profiling. **Hepatology** 40(3):667-676
  26. Lee, J-S. and Thorgeirsson, S. S. 2002. Functional and genomic implications of global gene expression profiles in cell lines from human hepatocellular cancer. **Hepatology** 35(5):1134-1143.