Stanford

Chenlin Song

Basic Life Research Scientist, Chemical and Systems Biology Operations

Bio

HONORS AND AWARDS

- Poster Presentation award of German Cancer Research Center, German Cancer Research Center (DKFZ) (2015)
- Chinese Scholarship Council scholarship to study abroad, Chinese Scholarship Council (2013 - 2016)
- Scholarship of excellent undergraduate students and graduate students, Tongji University (2006 - 2010)

EDUCATION AND CERTIFICATIONS

- postdoctoral fellow, Stanford University , R-loop and immune response (2023)
- Ph.D. degree, Heidelberg University , Bioscience (2017)
- Master degree, Tongji University , Biology (2013)
- Bachelor degree, Tongji University , Bioscience (2010)

PROJECTS

- R-Loop Driven Activation of the Innate Immune Response - Stanford University

Publications

PUBLICATIONS

- **The Diminution of R-Loops Generated by LncRNA DSP-AS1 Inhibits DSP Gene Transcription to Impede the Re-Epithelialization During Diabetic Wound Healing.** *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*
  Yang, C., Lian, H., Luo, H., Song, C., Lin, J., Liang, Z., Yang, Y., Hong, X., Li, S., Chen, Y., Wu, L., Yan, L., Chen, et al
  2025: e2406021

- **Author Correction: R-loop-derived cytoplasmic RNA-DNA hybrids activate an immune response.** *Nature*
  Crossley, M. P., Song, C., Bocek, M. J., Choi, J. H., Kousouros, J. N., Sathirachinda, A., Lin, C., Brickner, J. R., Bai, G., Lans, H., Vermeulen, W., Abu-Remaileh, M., Cimprich, et al
  2024

- **R-loop-derived cytoplasmic RNA-DNA hybrids activate an immune response.** *Nature*
  Crossley, M. P., Song, C., Bocek, M. J., Choi, J., Kousorous, J., Sathirachinda, A., Lin, C., Brickner, J. R., Bai, G., Lans, H., Vermeulen, W., Abu-Remaileh, M., Cimprich, et al
  2022

- **Catalytically inactive, purified RNase H1: A specific and sensitive probe for RNA-DNA hybrid imaging.** *The Journal of cell biology*
  Crossley, M. P., Brickner, J. R., Song, C., Zar, S. M., Maw, S. S., Chédin, F., Tsai, M. S., Cimprich, K. A.
  2021; 220 (9)

- **lncRNA PAPAS tethered to the rDNA enhancer recruits hypophosphorylated CHD4/NuRD to repress rRNA synthesis at elevated temperatures.** *Genes & development*

Zhao, Z., Sentürk, N., Song, C., Grummt, I.
2018

- **LncRNA-SVUGP2 suppresses progression of hepatocellular carcinoma.** *Oncotarget*
  Hu, J., Song, C., Duan, B., Zhang, X., Li, D., Zhu, L., Gao, H.
  2017; 8 (58): 97835-97850

- **SIRT7 and the DEAD-box helicase DDX21 cooperate to resolve genomic R loops and safeguard genome stability** *GENES & DEVELOPMENT*
  Song, C., Hotz-Wagenblatt, A., Voit, R., Grummt, I.
  2017; 31 (13): 1370–81

- **The role of the miR-31/FIH1 pathway in TGF-beta-induced liver fibrosis** *CLINICAL SCIENCE*
  Hu, J., Chen, C., Liu, Q., Liu, B., Song, C., Zhu, S., Wu, C., Liu, S., Yu, H., Yao, D., Kang, J., Zhu, L.
  2015; 129 (4): 305–17

- **HDAC1 and Klf4 interplay critically regulates human myeloid leukemia cell proliferation** *CELL DEATH & DISEASE*
  Huang, Y., Chen, J., Lu, C., Han, J., Wang, G., Song, C., Zhu, S., Wang, C., Li, G., Kang, J., Wang, J.
  2014; 5: e1491

- **MicroRNA-29a promotes colorectal cancer metastasis by regulating matrix metalloproteinase 2 and E-cadherin via KLF4** *BRITISH JOURNAL OF CANCER*
  Tang, W., Zhu, Y., Gao, J., Fu, J., Liu, C., Liu, Y., Song, C., Zhu, S., Leng, Y., Wang, G., Chen, W., Du, P., Huang, et al
  2014; 110 (2): 450-458

- **Overexpression of miR-126 Inhibits the Activation and Migration of HSCs through Targeting CRK** *CELLULAR PHYSIOLOGY AND BIOCHEMISTRY*
  Gong, X., Chen, C., Hou, P., Zhu, S., Wu, C., Song, C., Ni, W., Hu, J., Yao, D., Kang, J., Zhu, L.
  2014; 33 (1): 97-106

- **Histone Deacetylase (HDAC) 10 Suppresses Cervical Cancer Metastasis through Inhibition of Matrix Metalloproteinase (MMP) 2 and 9 Expression** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Song, C., Zhu, S., Wu, C., Kang, J.
  2013; 288 (39): 28021–33

- **Bone morphogenetic protein (BMP) signaling regulates mitotic checkpoint protein levels in human breast cancer cells** *CELLULAR SIGNALLING*
  Yan, H., Zhu, S., Song, C., Liu, N., Kang, J.
  2012; 24 (4): 961–68

- **VPA inhibits breast cancer cell migration by specifically targeting HDAC2 and down-regulating Survivin** *MOLECULAR AND CELLULAR BIOCHEMISTRY*
  Zhang, L., Wang, G., Wang, L., Song, C., Leng, Y., Wang, X., Kang, J.
  2012; 361 (1-2): 39–45

- **Valproic acid inhibits prostate cancer cell migration by up-regulating E-cadherin expression** *PHARMAZIE*
  Zhang, L., Wang, G., Wang, L., Song, C., Wang, X., Kang, J.
  2011; 66 (8): 614–18