



## Yuxuan Liu

Senior Research Scientist, Pediatrics - Hematology/Oncology

 NIH Biosketch available Online

### Bio

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#### HONORS AND AWARDS

- Lymphoma Research Foundation Fellowship Award, Lymphoma Research Foundation (2018-2020)
- American Society of Hematology Abstract Achievement Award, American Society of Hematology (2018)
- Abel Tasman Talent Program (ATTP) Scholarship, University of Groningen, Netherlands (2011-2013)

#### EDUCATION AND CERTIFICATIONS

- PhD, University of Groningen, Netherlands , Molecular Biology and Pathology (2013)
- MS, Peking University, China , Pathology (2011)
- BS, Peking University , Experimental Medicine (2008)

### Professional

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#### PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Member, American Society of Hematology (2023 - present)

### Publications

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#### PUBLICATIONS

- **Uridine Metabolism as a Targetable Metabolic Achilles' Heel for chemo-resistant B-ALL.** *bioRxiv : the preprint server for biology*  
Liu, Y., Jiang, H., Liu, J., Stuani, L., Merchant, M., Jager, A., Koladiya, A., Chang, T. C., Domizi, P., Sarno, J., Keyes, T., Jedoui, D., Wang, et al  
2025
- **Dasatinib overcomes glucocorticoid resistance in B-cell acute lymphoblastic leukemia.** *Nature communications*  
Sarno, J., Domizi, P., Liu, Y., Merchant, M., Pedersen, C. B., Jedoui, D., Jager, A., Nolan, G. P., Gaipa, G., Bendall, S. C., Bava, F., Davis, K. L.  
2023; 14 (1): 2935
- **Single-cell technologies uncover intra-tumor heterogeneity in childhood cancers.** *Seminars in immunopathology*  
Lo, Y., Liu, Y., Kammersgaard, M., Koladiya, A., Keyes, T. J., Davis, K. L.  
2023
- **NOXA genetic amplification or pharmacologic induction primes lymphoma cells to BCL2 inhibitor-induced cell death.** *Proceedings of the National Academy of Sciences of the United States of America*  
Liu, Y., Mondello, P., Erazo, T., Tannan, N. B., Asgari, Z., de Stanchina, E., Nanjangud, G., Seshan, V. E., Wang, S., Wendel, H. G., Younes, A.  
2018; 115 (47): 12034-12039
- **Immunoglobulin variable gene diversity reflects distinct metabolic/signaling states and impacts measurable residual disease monitoring and clinical outcome in B cell acute lymphoblastic leukemia**  
Simpson, C., Baker, C., Adlowitz, D., Lee, L., Liu, Y., Rock, P., Murphy, K., Soni, L., Zhang, B., Stuani, L., Jager, A., Wang, H., Spence, et al

ELSEVIER.2025: 333-334

- **Integrated N-Glycoproteomic and Phosphoproteomic Profiling Reveals Glycosylation Dysregulation in Relapse-Prone B-ALL Cells**  
Wang, A., Garcia-Marques, F., Liu, Y., Bermudez, A., Merchant, M., Pitteri, S.  
ELSEVIER.2025
- **IKAROS levels are associated with antigen escape in CD19- and CD22-targeted therapies for B-cell malignancies.** *Nature communications*  
Domizi, P., Sarno, J., Jager, A., Merchant, M., Pacheco, K. Z., Yamada-Hunter, S. A., Rotiroti, M. C., Liu, Y., Baskar, R., Reynolds, W. D., Sworder, B. J., Sahaf, B., Bendall, et al  
2025; 16 (1): 3800
- **Prior Knowledge Integration Improves Relapse Prediction and Identifies Relapse Associated Mechanisms in Childhood B Cell Acute Lymphoblastic Leukemia**  
Koladiya, A., Jager, A., Culos, A., Merchant, M., Liu, Y., Stuani, L., Sarno, J., Domizi, P., Mullighan, C. G., Aghaeepour, N., Bendall, S., Davis, K. L.  
AMER SOC HEMATOLOGY.2023
- **Enrichment in Metabolic Pathway Activation Corresponds to Immunoglobulin Gene Diversity across B Cell Developmental Stages in B-Lymphoblastic Leukemia**  
Simpson, C., Liu, Y., Stuani, L., Jager, A., Baker, C., Adlowitz, D. G., Rock, P. J., Burack, R., Davis, K. L.  
AMER SOC HEMATOLOGY.2023
- **Uridine Synthesis Is the Metabolic Vulnerability in Relapse-Associated B-ALL Cells with Active Pre-BCR Signaling**  
Liu, Y., Jiang, H., Stuani, L., Sarno, J., Domizi, P., Merchant, M., Jedoui, D., Jager, A., Huang, M., Lacayo, N. J., Sakamoto, K. M., Ye, J., Davis, et al  
AMER SOC HEMATOLOGY.2023
- **Single-Cell Proteomic Analysis Defines Metabolic Heterogeneity in Response to Venetoclax in AML**  
Stuani, L., Jager, A., Sahal, A., Koladiya, A., Sarno, J., Domizi, P., Liu, Y., De Mas, V., Recher, C., Vergez, F., Sarry, J., Davis, K. L.  
AMER SOC HEMATOLOGY.2022: 1028-1029
- **First-in-Class Histone Acetyltransferase (HAT) Activator, YF2, Modulates Immune Evasion in DLBCL, Enhancing the Effects of Immune Checkpoint Blockade**  
Estrella, B., Pazos, M. A., Ricker, E. C., Ryu, Y., Piorczynski, T. B., Liu, Y., Tolu, S., Amengual, J. E.  
AMER SOC HEMATOLOGY.2022
- **Editorial: Current Status and the Need for Acute and Chronic Modulation of Brain Circuits as Interventions in Neurological and Psychiatric Disorders** *FRONTIERS IN HUMAN NEUROSCIENCE*  
Wei, Z. Z., Qiu, B., Song, X., Liu, Y.  
2022; 16: 927382
- **Glucocorticoid-Resistant B-Cell Acute Lymphoblastic Leukemic Cells Can be Targeted By BCR-Signaling Inhibition**  
Sarno, J., Domizi, P., Liu, Y., Merchant, M., Jedoui, D., Jager, A., Biondi, A., Gaipa, G., Bava, A., Davis, K. L.  
AMER SOC HEMATOLOGY.2021
- **Histone Acetyltransferase (HAT) Activator, YF2, Modulates the p53:BCL6 Axis and Antigen Presentation in Diffuse Large B-Cell Lymphomas**  
Estrella, B., Liu, Y., Ricker, E. C., Pazos, M. A., Fiorito, J., Zuccarello, E., Calcagno, E., Honig, B., Arancio, O., Amengual, J. E.  
AMER SOC HEMATOLOGY.2021
- **Inhibition of Pre-BCR Signaling Mediates a Metabolic Switch in B-Cell Progenitor Acute Lymphoblastic Leukemia**  
Liu, Y., Stuani, L., Jedoui, D., Merchant, M., Jager, A., Sarno, J., Mullighan, C. G., Hartmann, F. J., Bendall, S., Davis, K. L.  
AMER SOC HEMATOLOGY.2021
- **Hypomethylating Agents in Lymphoma.** *Current treatment options in oncology*  
Cogan, J. C., Liu, Y., Amengual, J. E.  
2020; 21 (8): 61
- **Chromatin-Remodeled State in Lymphoma.** *Current hematologic malignancy reports*  
Liu, Y., Gonzalez, Y., Amengual, J. E.  
2019; 14 (5): 439-450
- **Precision Targeting with EZH2 and HDAC Inhibitors in Epigenetically Dysregulated Lymphomas.** *Clinical cancer research : an official journal of the American Association for Cancer Research*

- Lue, J. K., Prabhu, S. A., Liu, Y., Gonzalez, Y., Verma, A., Mundi, P. S., Abshiru, N., Camarillo, J. M., Mehta, S., Chen, E. I., Qiao, C., Nandakumar, R., Cremers, et al  
2019; 25 (17): 5271-5283
- **BET Inhibition-Induced GSK3 $\beta$  Feedback Enhances Lymphoma Vulnerability to PI3K Inhibitors.** *Cell reports*  
Derenzini, E., Mondello, P., Erazo, T., Portelinha, A., Liu, Y., Scallion, M., Asgari, Z., Philip, J., Hilden, P., Valli, D., Rossi, A., Djaballah, H., Ouerfelli, et al  
2018; 24 (8): 2155-2166
  - **The mutational landscape of Hodgkin lymphoma cell lines determined by whole-exome sequencing.** *Leukemia*  
Liu, Y., Abdul Razak, F. R., Terpstra, M., Chan, F. C., Saber, A., Nijland, M., van Imhoff, G., Visser, L., Gascoyne, R., Steidl, C., Kluiver, J., Diepstra, A., Kok, et al  
2014; 28 (11): 2248-51
  - **A meta-analysis of Hodgkin lymphoma reveals 19p13.3 TCF3 as a novel susceptibility locus** *NATURE COMMUNICATIONS*  
Cozen, W., Timofeeva, M. N., Li, D., Diepstra, A., Hazelett, D., Delahaye-Sourdeix, M., Edlund, C. K., Franke, L., Rostgaard, K., Van den Berg, D. J., Cortessis, V. K., Smedby, K. E., Glaser, et al  
2014; 5
  - **The microenvironment in classical Hodgkin lymphoma: an actively shaped and essential tumor component.** *Seminars in cancer biology*  
Liu, Y., Sattarzadeh, A., Diepstra, A., Visser, L., van den Berg, A.  
2014; 24: 15-22
  - **PML Nuclear Bodies and SATB1 Are Associated with HLA Class I Expression in EBV plus Hodgkin Lymphoma** *PLOS ONE*  
Liu, Y., van den Berg, A., Veenstra, R., Rutgers, B., Nolte, I., van Imhoff, G., Visser, L., Diepstra, A.  
2013; 8 (8): e72930
  - **IgG gene expression and its possible significance in prostate cancers.** *The Prostate*  
Liu, Y., Chen, Z., Niu, N., Chang, Q., Deng, R., Korteweg, C., Gu, J.  
2012; 72 (6): 690-701
  - **Immunoglobulin G Locus Events in Soft Tissue Sarcoma Cell Lines** *PLOS ONE*  
Chen, Z., Li, J., Xiao, Y., Zhang, J., Zhao, Y., Liu, Y., Ma, C., Qiu, Y., Luo, J., Huang, G., Korteweg, C., Gu, J.  
2011; 6 (6): e21276
  - **Transcription factors E2A, FOXO1 and FOXP1 regulate recombination activating gene expression in cancer cells.** *PloS one*  
Chen, Z., Xiao, Y., Zhang, J., Li, J., Liu, Y., Zhao, Y., Ma, C., Luo, J., Qiu, Y., Huang, G., Korteweg, C., Gu, J.  
2011; 6 (5): e20475
  - **Immunoglobulin G (IgG) Expression in Human Umbilical Cord Endothelial Cells** *JOURNAL OF HISTOCHEMISTRY & CYTOCHEMISTRY*  
Zhao, Y., Liu, Y., Chen, Z., Korteweg, C., Gu, J.  
2011; 59 (5): 474-488