



Pablo Domizi, Ph.D.

Senior Research Scientist-Basic Life, Pediatrics - Hematology/Oncology

Bio

BIO

I am passionate about translational research and how single cell technologies could open up new avenues for better and more accurate predictive models. Currently, I am focus on integrating single cell RNA and protein expression data to develop models to predict patient at risk for Antigen Loss relapse after CAR T cells immunotherapy.

Publications

PUBLICATIONS

- **DHODH as a Targetable Metabolic Achilles' Heel for chemo-resistant B-ALL.** *Blood*
Liu, Y., Jiang, H., Liu, J., Stuani, L., Merchant, M. J., Jager, A., Koladiya, A., Chang, T. C., Domizi, P., Sarno, J., Wang, A., Keyes, T., Jedoui, et al
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Craig, E., Keyes, T. J., Sarno, J., D'Silva, J. P., Domizi, P., Zaslavsky, M., Tsai, A., Glass, D., Nolan, G. P., Hastie, T., Tibshirani, R., Davis, K. L.
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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

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- **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
- **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
- **Prior Knowledge Integration Improves Relapse Prediction and Identifies Relapse Associated Mechanisms in Childhood B Cell Acute Lymphoblastic Leukemia**
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2023; 14 (1): 2935
- **Single-Cell Proteomic Analysis Defines Metabolic Heterogeneity in Response to Venetoclax in AML**
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AMER SOC HEMATOLOGY.2022: 1028-1029
- **IKAROS MEDIATES ANTIGEN ESCAPE FOLLOWING CD19 CAR T CELL THERAPY IN R/R B-ALL**
Domizi, P., Sarno, J., Jager, A., Rotiroti, M., Baskar, R., Reynolds, W., Sahaf, B., Bendall, S., Mullighan, C., Leahy, A., Myers, R., Grupp, S., Majzner, et al
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2022; 13 (1): 934
- **Chromatin Content Capture Reveals Acute Leukaemia Oncogenic Vulnerability Point in Human B Cell Development**
Baskar, R., Favaro, P., Reynolds, W. D., Domizi, P., Tsai, A. G., Davis, K. L., Bendall, S.
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- **Ikaros Mediates Antigen Escape Following CD19 CAR T Cell Therapy in r/r B-ALL**
Domizi, P., Sarno, J., Jager, A., Baskar, R., Reynolds, W. D., Sahaf, B., Bendall, S., Mullighan, C. G., Leahy, A., Myers, R. M., Grupp, S. A., Sotillo, E., Barrett, et al
AMER SOC HEMATOLOGY.2021
- **Glucocorticoid-Resistant B-Cell Acute Lymphoblastic Leukemic Cells Can be Targeted By BCR-Signaling Inhibition**
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2021; 1184: 339023
- **A Cancer Biologist's Primer on Machine Learning Applications in High-Dimensional Cytometry.** *Cytometry. Part A : the journal of the International Society for Analytical Cytology*
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- **Expansion of Bone Precursors through Jun as a Novel Treatment for Osteoporosis-Associated Fractures.** *Stem cell reports*
Lerbs, T., Cui, L., Muscat, C., Saleem, A., van Neste, C., Domizi, P., Chan, C., Wernig, G.
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- **Prediction of Patients at Risk of CD19(Neg) Relapse Following CD19-Directed CAR T Cell Therapy in B Cell Precursor Acute Lymphoblastic Leukemia**
Domizi, P., Jager, A., Sarno, J., Mullighan, C. G., Grupp, S., Sotillo, E., Barrett, D. M., Davis, K. L.
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- **Preconditioning of Rat Bone Marrow-Derived Mesenchymal Stromal Cells with Toll-Like Receptor Agonists.** *Stem cells international*
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- **Therapeutic effects of sphingosine kinase inhibitor N,N-dimethylsphingosine (DMS) in experimental chronic Chagas disease cardiomyopathy.** *Scientific reports*
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- **Role of phosphatidylcholine during neuronal differentiation.** *IUBMB life*
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PRESENTATIONS

- Ikaros Mediates Antigen Escape Following CD19 CAR T Cell Therapy in r/r B-ALL - 2021 63rd ASH annual meeting
- Identification of Cell Populations Associated with CD19Neg Relapse Following CAR T Cell Therapy in Acute Lymphoblastic Leukemia - 2021 TCT| Transplantation & Cellular Therapy Meetings of ASTCT and CIBMTR
- Prediction of Patients at Risk of CD19Neg Relapse Following CD19-Directed CAR T Cell Therapy in B Cell Precursor Acute Lymphoblastic Leukemia - 61st ASH Annual Meeting & Exposition. (December 7, 2019 - December 10, 2019)