Stanford

Pablo Domizi, Ph.D.

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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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- **Training Tomorrow's Leaders in Cancer Immunology.** *Cancer immunology research*
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- **Sequential CD19 and CD22 CART for relapsed and refractory B cell ALL: Phase I results**
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- **Multi-omic analysis of early minimal residual disease identifies functional and transcriptomic signatures of treatment resistance in pediatric B-cell acute lymphoblastic leukemia**
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- **Annotation-free discovery of disease-relevant cells in single-cell datasets.** *Science advances*
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- **IKAROS levels are associated with antigen escape in CD19- and CD22-targeted therapies for B-cell malignancies.** *Nature communications*
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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
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- **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
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- **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.
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- **IKAROS MEDIATES ANTIGEN ESCAPE FOLLOWING CD19 CAR T CELL THERAPY IN R/R B-ALL**
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- **CytofIn enables integrated analysis of public mass cytometry datasets using generalized anchors.** *Nature communications*
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  2022; 13 (1): 934

- **Chromatin Content Capture Reveals Acute Leukaemia Oncogenic Vulnerability Point in Human B Cell Development**
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- **Ikaros Mediates Antigen Escape Following CD19 CAR T Cell Therapy in r/r B-ALL**
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- **Glucocorticoid-Resistant B-Cell Acute Lymphoblastic Leukemic Cells Can be Targeted By BCR-Signaling Inhibition**
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- **In-depth triacylglycerol profiling using MS3 Q-Trap mass spectrometry.** *Analytica chimica acta*
  Cabruja, M., Priotti, J., Domizi, P., Papsdorf, K., Kroetz, D. L., Brunet, A., Contrepois, K., Snyder, M. P.
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- **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*
  Keyes, T. J., Domizi, P., Lo, Y., Nolan, G. P., Davis, K. L.
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- **Expansion of Bone Precursors through Jun as a Novel Treatment for Osteoporosis-Associated Fractures.** *Stem cell reports*
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- **Activation of JUN in fibroblasts promotes pro-fibrotic programme and modulates protective immunity.** *Nature communications*
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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**
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- **Stem cell therapy for treatment of ischemic optic neuropathy**
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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)