

Stanford



Oscar Silva

Clinical Assistant Professor, Pathology

CLINICAL OFFICE (PRIMARY)

- **Department of Pathology**

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Bio

BIO

Oscar is an academic hematopathologist who completed anatomic and clinical pathology residency and hematopathology fellowship at Stanford in 2020. Prior to Stanford, he received his MD and PhD from UCLA. His interests include immunology, the pathogenesis and diagnosis of lymphomas, and global health.

CLINICAL FOCUS

- Hematopathology
- Anatomical and Clinical Pathology
- Anatomic and Clinical Pathology

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Pathology
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Board Certification: Anatomic and Clinical Pathology, American Board of Pathology (2020)
- Board Certification: Hematopathology, American Board of Pathology (2021)
- Fellowship: Stanford University Hemapathology Fellowship (2018) CA
- Residency: Stanford University Pathology Residency (2020) CA
- Medical Education: UCLA David Geffen School Of Medicine Registrar (2015) CA
- M.D., University of California, Los Angeles (2015)
- Ph.D, University of California, Los Angeles , Immunology (2013)

Publications

PUBLICATIONS

- **Immune imprinting, breadth of variant recognition, and germinal center response in human SARS-CoV-2 infection and vaccination.** *Cell*
Röltgen, K., Nielsen, S. C., Silva, O., Younes, S. F., Zaslavsky, M., Costales, C., Yang, F., Wirz, O. F., Solis, D., Hoh, R. A., Wang, A., Arunachalam, P. S., Colburg, et al
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- **Low-cost transcriptional diagnostic to accurately categorize lymphomas in low- and middle-income countries.** *Blood advances*
Valvert, F. n., Silva, O. n., Solórzano-Ortiz, E. n., Puligandla, M. n., Siliézar Tala, M. M., Guyon, T. n., Dixon, S. L., López, N. n., López, F. n., Carías Alvarado, C. C., Terbrueggen, R. n., Stevenson, K. E., Natkunam, et al
2021; 5 (10): 2447–55
- **The clinical, molecular, and prognostic features of the 2022 WHO and ICC classification systems for myelodysplastic neoplasms.** *Leukemia research*
Khanna, V., Lu, R., Kumar, J., Molina, A., Stehr, H., Spiteri, E., Spinner, M., Silva, O., Fernandez-Pol, S., Tan, B., Greenberg, P. L.
2023; 136: 107433
- **Somatostatin Receptor (SSTR2) Expression in EBV-Positive and EBV-Negative Lymphomas from Guatemala**
Brar, N., Charville, G., Natkunam, Y., Valvert, F., Briercheck, E., Silva, O.
ELSEVIER SCIENCE INC.2023: S1102-S1104
- **Localization, Quantity, and Persistence of SARS-CoV2 Vaccine mRNA and Spike Antigen in Lymph Nodes of Pediatric Vaccinees**
Miller, T., Wang, A., Colburg, D., Boyd, S., Silva, O.
ELSEVIER SCIENCE INC.2023: S1196-S1197
- **Clinicopathologic Features of Human Monkeypox Lymphadenitis.** *Histopathology*
Qian, Z. J., Gong, R., Mann, D. S., Walding, K., Miller, T., Nicholas, V., Kappagoda, S., Pinsky, B. A., Silva, O., Lau, H. D.
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- **Hepatosplenic T-cell lymphoma with STAT5B and SETD2 mutations recurring as cells with NK-cell immunophenotype.** *Blood*
Khodadoust, M., Silva, O.
2023; 141 (5): 555
- **Correlation of Mutational Profiles and Cytogenetics with Morphologic Dysplasia in Myelodysplastic Syndromes**
Kumar, J., Khanna, V., Lu, R., Stehr, H., Spinner, M. A., Silva, O., Fernandez-Pol, S., Oak, J. S., Greenberg, P. L., Tan, B.
AMER SOC HEMATOLOGY.2022: 4053-4055
- **Characterization of Clinical, Molecular, and Prognostic Features of the WHO 2022 Classification System for Myelodysplastic Neoplasms (MDS)**
Khanna, V., Lu, R., Kumar, J., Stehr, H., Spinner, M. A., Silva, O., Fernandez-Pol, S., Oak, J. S., Tan, B., Greenberg, P. L.
AMER SOC HEMATOLOGY.2022: 6955-6957
- **The Tabula Sapiens: A multiple-organ, single-cell transcriptomic atlas of humans.** *Science (New York, N.Y.)*
Jones, R. C., Karkanias, J., Krasnow, M. A., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaupt, B., Brown, P., Harper, W., Hemenez, M., Ponnusamy, R., Salehi, et al
2022; 376 (6594): eabl4896
- **Case Report: Castleman Disease With an Associated Stromal Spindle Cell Proliferation, PDGFRB Mutation and p53 Expression: Clonal Origins of a Rare Disease.** *Frontiers in oncology*
Singh, K. I., Gollapudi, S., Kumar, J., Butzmann, A., Small, C., Kreimer, S., Saglam, E. A., Warnke, R., Silva, O., Ohgami, R. S.
2022; 12: 857606
- **Cell types of origin of the cell-free transcriptome.** *Nature biotechnology*
Vorperian, S. K., Moufarrej, M. N., Tabula Sapiens Consortium, Quake, S. R., Jones, R. C., Karkanias, J., Krasnow, M., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaupt, B., Brown, P., et al
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- **Increased double-negative alpha beta plus T cells reveal adult-onset autoimmune lymphoproliferative syndrome in a patient with IgG4-related disease** *HAEMATOLOGICA*
Brar, N., Spinner, M. A., Baker, M. C., Advani, R. H., Natkunam, Y., Lewis, D. B., Silva, O.

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- **Case Report: Mature Plasmacytoid Dendritic Cell Proliferation Associated With a Lymphoid Neoplasm.** *Frontiers in oncology*
Fei, F., Liedtke, M., Silva, O.
2022; 12: 903113
- **RNA splicing programs define tissue compartments and cell types at single cell resolution.** *eLife*
Olivieri, J. E., Dehghannasiri, R., Wang, P. L., Jang, S., de Morree, A., Tan, S. Y., Ming, J., Ruohao Wu, A., Tabula Sapiens Consortium, Quake, S. R., Krasnow, M. A., Salzman, J.
2021; 10
- **The RNA-binding protein IGF2BP3 is critical for MLL-AF4-mediated leukemogenesis.** *Leukemia*
Tran, T. M., Philipp, J., Bassi, J. S., Nibber, N., Draper, J. M., Lin, T. L., Palanichamy, J. K., Jaiswal, A. K., Silva, O., Paing, M., King, J., Katzman, S., Sanford, et al
2021
- **Polytypic T-cell prolymphocytic leukemia.** *Blood*
Ames, E., Silva, O.
2021; 137 (15): 2125
- **Classic Hodgkin lymphoma in Guatemalan children of age less than six years: analysis of immune regulatory pathways and the tumor microenvironment.** *Leukemia & lymphoma*
Silva, O., Charu, V., Ewalt, M. D., Metcalf, R. A., Zhao, S., Castellanos, E. M., Orellana, E., Natkunam, Y., Luna-Fineman, S.
2021: 1–13
- **Nonleukemic T/B mixed phenotype acute leukemia with PHF6 and NOTCH1 mutations.** *Blood*
Silva, O., Kurzer, J.
2021; 138 (9): 818
- **Chronic lymphoproliferative disorder of NK cells with TNFAIP3 and DNMT3A mutations.** *Blood*
Bulterys, P. L., Silva, O.
2021; 137 (24): 3460
- **Additional considerations related to the elusive boundaries of EBV-associated T/NK-cell lymphoproliferative disorders.** *Haematologica*
Fernandez-Pol, S., Silva, O., Natkunam, Y.
2019; 104 (3): e125–e126
- **Defining the elusive boundaries of chronic active Epstein-Barr virus infection.** *Haematologica*
Fernandez-Pol, S., Silva, O., Natkunam, Y.
2018; 103 (6): 924–27
- **A Feedback-Based Training Module Improves Tumor Cellularity Estimation for Molecular Testing**
Weiel, J. J., Silva, O., Mooney, K. L., Lin, C., Kunder, C. A.
NATURE PUBLISHING GROUP.2017: 144A
- **Discs Large Homolog 1 Splice Variants Regulate p38-Dependent and -Independent Effector Functions in CD8+T Cells** *PLOS ONE*
Silva, O., Crocetti, J., Humphries, L. A., Burkhardt, J. K., Miceli, M. C.
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- **Selective Phosphorylation of the Dlg1AB Variant Is Critical for TCR-Induced p38 Activation and Induction of Proinflammatory Cytokines in CD8(+) T Cells** *JOURNAL OF IMMUNOLOGY*
Crocetti, J., Silva, O., Humphries, L. A., Tibbs, M. D., Miceli, M. C.
2014; 193 (6): 2651-2660
- **Dantrolene Enhances Antisense-Mediated Exon Skipping in Human and Mouse Models of Duchenne Muscular Dystrophy** *SCIENCE TRANSLATIONAL MEDICINE*
Kendall, G. C., Mokhonova, E. I., Moran, M., Sejbuk, N. E., Wang, D. W., Silva, O., Wang, R. T., Martinez, L., Lu, Q. L., Damoiseaux, R., Spencer, M. J., Nelson, S. F., Miceli, et al
2012; 4 (164)
- **Characterization of In Vivo Dlg1 Deletion on T Cell Development and Function** *PLOS ONE*

Humphries, L. A., Shaffer, M. H., Sacirbegovic, F., Tomassian, T., McMahon, K., Humbert, P. O., Silva, O., Round, J. L., Takamiya, K., Haganir, R. L., Burkhardt, J. K., Russell, S. M., Miceli, et al
2012; 7 (9)

- **Caveolin-1 Orchestrates TCR Synaptic Polarity, Signal Specificity, and Function in CD8 T Cells** *JOURNAL OF IMMUNOLOGY*
Tomassian, T., Humphries, L. A., Liu, S. D., Silva, O., Brooks, D. G., Miceli, M. C.
2011; 187 (6): 2993-3002