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Clinical Associate Professor, Pathology

CLINICAL OFFICE (PRIMARY)

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Bio

BIO

Dr. Sebastian Fernandez-Pol is an academic hematopathologist with fellowship training in hematopathology and dermatopathology. He has a particular interest in improving diagnostic accuracy for cutaneous lymphoproliferative disorders. Dr. Fernandez-Pol received his B.A. in chemistry with a concentration in biochemistry from the Washington University in St. Louis in 2003, his MD and PhD from Northwestern University in 2013, and completed his anatomic pathology and clinical pathology residency, hematopathology fellowship, and dermatopathology fellowship at Stanford University in 2019.

CLINICAL FOCUS

- Hematopathology
- Anatomic and Clinical Pathology
- Dermatopathology

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Pathology

PROFESSIONAL EDUCATION

- Fellowship: Stanford University Hematopathology Fellowship (2018) CA
- Fellowship: Stanford University Dermatopathology Fellowship (2019) CA
- Board Certification: Dermatopathology, American Board of Pathology (2019)
- Fellowship, Stanford University Hematopathology Fellowship , CA (2018)
- Board Certification: Hematopathology, American Board of Pathology (2018)
- Board Certification: Anatomic and Clinical Pathology, American Board of Pathology (2017)
- Residency: Stanford University Pathology Residency (2017) CA
- Medical Education: Northwestern University Feinberg School of Medicine (2013) IL

Publications

PUBLICATIONS

- **Begelomab (BEGESAND®) Salvages Steroid-Resistant Acute GVHD in Pediatric Patients.** *Journal of clinical medicine*
Shyr, D., Chirieleison, S. M., Fernandez-Pol, S., Weinacht, K., Agarwal, R., Shah, A. J., Spinelli, M., Palmieri, R., Di Naro, A. F., Bertaina, A.
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- **Peripheral Nerve Infiltration by CAR T-cells in a Case of Mononeuritis Multiplex after Ciltacabtagene Autoleucl.** *Blood cell therapy journal of surgical pathology*
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- **A Bloody Mimic of Crohn's Disease: Primary Intestinal EBV-Positive NK/T-Cell Lymphoma.** *Digestive diseases and sciences*
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2026
- **Clinicopathologic and Molecular Characteristics of Merkel Cell Polyomavirus Positive T-Cell Lymphoproliferative Disorders.** *The American journal of surgical pathology*
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2026; 50 (5): 481-500
- **Immunohistochemical Expression of p63 and GATA3 in Lymphomas of the Urinary Bladder: A Clinicopathologic Study of a Potential Diagnostic Pitfall** *INTERNATIONAL JOURNAL OF SURGICAL PATHOLOGY*
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- **Clinicopathologic and Molecular Characteristics of Merkel Cell Polyomavirus Positive T-cell Lymphoproliferative Disorders**
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ELSEVIER SCIENCE INC.2026
- **Leveraging AI to Streamline Hematopathology Call Tracking: Quality Improvement Implications at a Single Institution**
Hu, Y., Fernandez-Pol, S.
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- **Diagnostic Utility of Ultrasensitive Dual Kappa/Lambda In Situ Hybridization Assay in the Detection of B-Cell Lymphomas in Small Volume Samples**
Sparger, C., Natkunam, Y., Menke, J., Ernst, K., Young, K., Libert, D., Fernandez-Pol, S.
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- **Morphologic findings and mutational profiles of myelodysplastic neoplasms with normal versus abnormal karyotype.** *Journal of hematopathology*
Kumar, J., Jensen, A., Lu, R., Khanna, V., Stehr, H., Spinner, M., Fernandez-Pol, S., Greenberg, P. L., Tan, B.
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- **Immunohistochemistry New Instrument Validations: Why Your Validation Plan Matters.** *Applied immunohistochemistry & molecular morphology : AIMM*
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- **Fatal Recurrence of IEC-HS Following Autologous Stem Cell Boost in Patients Receiving BCMA CAR-T Cell Therapy.** *Blood advances*
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- **A case of acid sphingomyelinase deficiency type B with prominent histiocytes with engulfed nucleated cells and compound heterozygosity.** *Journal of hematopathology*
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- **Expression of CD47 protein in hematolymphoid neoplasms: Implications for CD47-mediated cancer immunotherapy.** *American journal of clinical pathology*
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2025
- **Success Rate of Clot Sections (CS): A Benchmarking Study**
Lee, T., Hu, Y., Kurzer, J., Fernandez-Pol, S.
ELSEVIER SCIENCE INC.2025
- **MDM2 inhibition is associated with the emergence of TP53-altered clonal hematopoiesis.** *NPJ precision oncology*
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- **Immune effector cell-associated enterocolitis following chimeric antigen receptor T-cell therapy in multiple myeloma.** *Blood cancer journal*
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- **Genetic alteration of class I HLA in cutaneous T-cell lymphoma.** *Blood*
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- **Systematic literature review of published cases of reactive plasmacytosis in peripheral blood and bone marrow.** *Journal of clinical pathology*
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- **Site-discordant expression of myeloid cell nuclear differentiation antigen in blastic plasmacytoid dendritic cell neoplasm.** *American journal of clinical pathology*
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- **Quantification of the median fluorescence intensity of CD3 and CD4 in mycosis fungoides/Sezary syndrome versus non-neoplastic control cases in peripheral blood.** *Journal of hematopathology*
Fei, F., Brar, N., Herring, M. B., Menke, J. R., Oak, J., Fernandez-Pol, S.
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- **Targeted mutational profiling of Epstein Barr virus-positive mucocutaneous ulcer: Implications for differential diagnosis with EBV-positive diffuse large B-cell lymphoma.** *Annals of diagnostic pathology*
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- **Prevalence and clinicopathological features of incidentally detected TRBC1-dim populations in peripheral blood flow cytometry.** *Leukemia & lymphoma*
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- **p53 immunohistochemistry as an ancillary tool for rapid assessment of residual disease in TP53-mutated acute myeloid leukemia and myelodysplastic syndromes.** *American journal of clinical pathology*
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- **Loss of CD5-positive T-cells following anti-thymocyte globulin treatment.** *Journal of hematopathology*
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- **The Histopathologic Features of Early COVID Pneumonia in a Pediatric Patient: New Insight into the Role of Macrophages** *INTERNATIONAL JOURNAL OF SURGICAL PATHOLOGY*
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- **Clinical characteristics, treatment patterns, and outcomes of cytotoxic cutaneous T-cell lymphomas.** *American journal of hematology*
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2024
- **Shared and distinct mechanisms of UBA1 inactivation across different diseases.** *The EMBO journal*
Collins, J. C., Magaziner, S. J., English, M., Hassan, B., Chen, X., Balandia, N., Anderson, M., Lam, A., Fernandez-Pol, S., Kwong, B., Greenberg, P. L., Terrier, B., Likhite, et al
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- **The clinical, molecular, and prognostic features of the 2022 WHO and ICC classification systems for myelodysplastic neoplasms.** *Leukemia research*
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- **B-lymphoblastic leukemia with transient spontaneous remission in the setting of severe group A streptococcus infection.** *Journal of hematopathology*
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2023; 16 (4): 223-226
- **Lupus erythematosus cells in a bone marrow aspirate.** *Journal of hematopathology*
Zhang, J., Tan, B., Fernandez-Pol, S.
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- **Two cases of mycosis fungoides with large cell transformation with KMT2A rearrangements.** *Journal of hematopathology*
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- **Lupus erythematosus cells in a bone marrow aspirate** *JOURNAL OF HEMATOPATHOLOGY*
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- **Genomic abnormalities involving class I HLA are common in advanced cutaneous T-cell lymphoma**
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- **Clinicopathologic characteristics, genetic features, and treatment options for acute lymphoblastic leukemia with JAK2 rearrangement-A 10-case study and literature review.** *Human pathology*
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- **Molecular profiling identifies at least 3 distinct types of post-transplant lymphoproliferative disorder involving CNS.** *Blood advances*
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- **Comparison of two immunohistochemical staining protocols for ALK demonstrates non-inferiority of a 5A4 clone-based protocol versus an ALK01 clone-based protocol for the diagnosis of ALK + anaplastic large cell lymphoma.** *Journal of hematopathology*
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- **Isolated Sixth Nerve Palsies in a Child With Familial Hemophagocytic Lymphohistiocytosis Type 2.** *Journal of neuro-ophthalmology : the official journal of the North American Neuro-Ophthalmology Society*
Chiang, H. H., Fernandez-Pol, S., Bae, G. H., Rieger, K. E., Dahmouh, H. M., Beres, S. J.
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- **TRBC1 enables identification of an otherwise immunophenotypically silent case of angioimmunoblastic T-cell lymphoma.** *Journal of hematopathology*
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- **TRBC1 enables identification of an otherwise immunophenotypically silent case of angioimmunoblastic T-cell lymphoma** *JOURNAL OF HEMATOPATHOLOGY*
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- **LymphoML: An interpretable artificial intelligence-based method identifies morphologic features that correlate with lymphoma subtype**
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- **Clinical Characteristics, Treatment Patterns, and Outcomes of Cytotoxic Cutaneous T-Cell Lymphomas**
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- **Characterization of Clinical, Molecular, and Prognostic Features of the WHO 2022 Classification System for Myelodysplastic Neoplasms (MDS)**
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- **Correlation of Mutational Profiles and Cytogenetics with Morphologic Dysplasia in Myelodysplastic Syndromes**
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- **Digital Image Analysis and Quantitative Bead Standards in Root Cause Analysis of Immunohistochemical Staining Variability: A Real-world Example.** *Applied immunohistochemistry & molecular morphology : AIMM*
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- **Identification of "ER Low Positive" Breast Cancers Is Associated with Immunohistochemical Assay Conditions in CAP Proficiency Testing PM2 Survey**
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- **Identification of "ER Low Positive" Breast Cancers Is Associated with Immunohistochemical Assay Conditions in CAP Proficiency Testing PM2 Survey**
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- **Molecular Characterization of Chronic Lymphocytic Leukemia with Progression to Classic Hodgkin Lymphoma**
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- **Expression of CD47 Protein in Hematolymphoid Neoplasms: Implications for CD47-Mediated Cancer Immunotherapy**
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SPRINGERNATURE.2022: 1052-1053
- **Molecular Characterization of Chronic Lymphocytic Leukemia with Progression to Classic Hodgkin Lymphoma**
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- **Expression of CD47 Protein in Hematolymphoid Neoplasms: Implications for CD47-Mediated Cancer Immunotherapy**
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SPRINGERNATURE.2022: 1052-1053
- **Selective Targeting of Immune Modulatory Proteins to Mitigate Fibrosis and Inflammation in Sclerodermatous Graft-Vs-Host Disease**
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- **Two Cases of Mycosis Fungoides With PCM1-JAK2 Fusion.** *JCO precision oncology*
Fernandez-Pol, S., Neishaboori, N., Chapman, C. M., Khodadoust, M. S., Kim, Y. H., Rieger, K. E., Suarez, C. J.

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- **Mechanisms of resistance to anti-CCR4 antibody, mogamulizumab, in cutaneous T cell lymphoma**
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Vrabac, D., Smit, A., Rojansky, R., Natkunam, Y., Advani, R. H., Ng, A. Y., Fernandez-Pol, S., Rajpurkar, P.
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- **Radiation Therapy for Primary Cutaneous Gamma Delta Lymphoma Prior to Stem Cell Transplantation.** *Cancer investigation*
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2021: 1–11
- **Two Cases of Mycosis Fungoides With PCM1-JAK2 Fusion** *JCO PRECISION ONCOLOGY*
Fernandez-Pol, S., Neishaboori, N., Chapman, C. M., Khodadoust, M. S., Kim, Y. H., Rieger, K. E., Suarez, C. J.
2021; 5: 646-652
- **A Method for Assessing Performance of Automated Immunohistochemical Staining Platforms Using Digital Image Analysis**
Rojansky, R., Fernandez-Pol, S., Gomulia, E., Natkunam, Y., Troxell, M.
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- **Pembrolizumab in mycosis fungoides with PD-L1 structural variants.** *Blood advances*
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- **GloFlow: Whole Slide Image Stitching from Video Using Optical Flow and Global Image Alignment**
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- **A novel activating JAK1 mutation in chronic eosinophilic leukemia.** *Blood advances*
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2021
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2021; 15 (1): 170
- **Jun Activation in Dermal Fibroblasts Promotes Fibrosis and Inflammation in Sclerodermatous Graft-vs-host Disease in Mice and Humans**
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SPRINGER NATURE.2020: 13–14
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- **Differentiation syndrome during ivosidenib treatment with immunohistochemistry showing isocitrate dehydrogenase R132H mutation.** *Journal of cutaneous pathology*
Tabata, M. M., Chase, M., Kwong, B. Y., Novoa, R. A., Fernandez-Pol, S.
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- **Cutaneous Pleomorphic Fibromas Arising in Patients with Germline TP53 Mutations.** *Journal of cutaneous pathology*
Cloutier, J. M., Shalin, S. C., Lindberg, M., Gardner, J. M., Fernandez-Pol, S., Zaba, L., Novoa, R., Brown, R. A.
2020
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Gutkin, P. M., Fernandez-Pol, S. n., Horst, K. C.
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