

# Stanford

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## Yasodha Natkunam, M.D., Ph.D

Ronald F. Dorfman, MBBch, FRCPath Professor of Hematopathology  
Pathology

### CLINICAL OFFICES

- **Pathology**

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### ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

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### Bio

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#### BIO

Dr. Natkunam is an expert in the diagnosis of hematopoietic tumors including lymphoma and leukemia and has 20-years of experience in the hematopathology diagnostic services of Stanford Health and Stanford Children's Health. Her research focuses on refining the diagnosis and prognosis of patients with hematopoietic tumors and has furnished novel reagents, diagnostic criteria and guidelines for clinical practice. She currently serves on a number of editorial boards, expert panels and professional societies in her field.

#### CLINICAL FOCUS

- Hematopathology
- Anatomic Pathology
- Pathology and Laboratory Medicine

#### ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Pathology
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

#### ADMINISTRATIVE APPOINTMENTS

- Co-Director, Immunodiagnosis Laboratory, Stanford, (2005- present)
- Director of Faculty Development and Diversity, Stanford, (2009-2018)
- Director of Hematopathology, Stanford, (2009-2020)

## **HONORS AND AWARDS**

- Undergraduate Research Award, Charles A. Dana Foundation (1986)
- Medical Scientist Training Program, Mount Sinai School of Medicine, New York (1987-1995)
- Weill Memorial Fellow in Cancer Research, Mount Sinai School of Medicine, New York (1993)
- Shalit Fellow at John Radcliffe Hospital, Oxford, UK, Leukemia Research Fund, UK (2006)
- International Cancer Technology Transfer Award, International Cancer Control, Switzerland (2010)
- Faculty Teaching Award, Department of Pathology, Stanford (2016)
- Faculty Teaching Award, Department of Pathology, Stanford (2017)
- Ronald F. Dorfman, MBBS, FRCPath Professor in Hematopathology, Stanford University School of Medicine (2018)
- Faculty Teaching Award, Department of Pathology, Stanford (2019)
- Faculty Teaching Award, Department of Pathology, Stanford (2021)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Section Editor, Laboratory Investigation (2007 - 2009)
- Editorial Board, International Journal of Clinical and Experimental Pathology (2007 - 2016)
- Editorial Board, Applied Immunohistochemistry and Molecular Morphology (2008 - 2016)
- Editorial Board, Human Pathology (2008 - present)
- Lymphoma Working Group, Eastern Cooperative Oncology Group (2010 - present)
- Chair, Education Committee, Society for Hematopathology (2011 - 2013)
- Editorial Board, American Journal of Surgical pathology (2011 - present)
- Member, Lunenberg Lymphoma Biomarker Consortium (2012 - present)
- Chair, Workshop on Immunodeficiency and Dysregulation, Society for Hematopathology (2015 - 2015)
- Advisory Council, International Medical Health Organization (2017 - 2021)
- Executive Committee, Society for Hematopathology (2017 - 2021)
- International Affairs Committee, Society for Hematopathology (2020 - present)
- Board of Directors, International Medical Health Organization (2021 - present)
- Executive Committee, Global nLPHL One Working Group (2022 - present)

## **PROFESSIONAL EDUCATION**

- Residency: Stanford University Pathology Residency (1999) CA
- AB, Bryn Mawr College , Biology (1987)
- PhD, Mount Sinai School of Medicine , Molecular Biology (1993)
- MD, Mount Sinai School of Medicine , Medical School (1995)
- Board Certification: Anatomic Pathology, American Board of Pathology (1998)

## **Research & Scholarship**

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### **CURRENT RESEARCH AND SCHOLARLY INTERESTS**

My laboratory studies the tissue expression pattern of proteins that are of potential interest for the diagnosis, prognostic stratification and therapy of patients with lymphoma and leukemia. We are currently investigating prognostic markers in diffuse large B-cell lymphoma such that risk groups can be better defined. We are also

interested in the immunodiagnostic and molecular characterization of rare and aggressive hematopoietic tumors such as Natural Killer/T-cell lymphomas, histiocytic malignancies and childhood lymphomas in addition to immunodeficiency-associated lymphoproliferative disorders.

## CLINICAL TRIALS

- Genome, Proteome and Tissue Microarray in Childhood Acute Leukemia, Not Recruiting
- Phase 2 Fludarabine, Cytosan and FCCAM <Alemtuzumab> in Untreated B-Cell Chronic Lymphocytic Leukemia, Not Recruiting
- Phase 2 Study of Atorvastatin Safety and Antitumor Effects in Non-Hodgkin's Lymphoma, Not Recruiting
- Phase I Intratumoral Dendritic Cell Immunotherapy in Thermally Ablated Liver Metastases, Not Recruiting
- Phase I/II Intratumoral DC Immunotherapy With Gemcitabine & XRT in Unresectable Pancreatic Cancer, Not Recruiting

## Teaching

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### COURSES

#### 2019-20

- Clinical Studies in Pathology I: PATH 240 (Sum)
- Clinical Studies in Pathology II: PATH 241 (Sum)

#### 2018-19

- Clinical Studies in Pathology I: PATH 240 (Sum)
- Clinical Studies in Pathology II: PATH 241 (Sum)

## Publications

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### PUBLICATIONS

- **The 5th edition of the World Health Organization Classification of Haematolymphoid Tumours: Myeloid and Histiocytic/Dendritic Neoplasms.** *Leukemia*  
Khoury, J. D., Solary, E., Abl, O., Akkari, Y., Alaggio, R., Apperley, J. F., Bejar, R., Berti, E., Busque, L., Chan, J. K., Chen, W., Chen, X., Chng, et al  
2022
- **The 5th edition of the World Health Organization Classification of Haematolymphoid Tumours: Lymphoid Neoplasms.** *Leukemia*  
Alaggio, R., Amador, C., Anagnostopoulos, I., Attygalle, A. D., Araujo, I. B., Berti, E., Bhagat, G., Borges, A. M., Boyer, D., Calaminici, M., Chadburn, A., Chan, J. K., Cheuk, et al  
2022
- **Identification and Targeting of the Developmental Blockade in Extranodal Natural Killer/T-cell Lymphoma.** *Blood cancer discovery*  
Mundy-Bosse, B. L., Weigel, C., Wu, Y., Abdelbaky, S., Youssef, Y., Casas, S. B., Polley, N., Ernst, G., Young, K. A., McConnell, K. K., Nalin, A. P., Wu, K. G., Broughton, et al  
2022; 3 (2): 154-169
- **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  
2022
- **CAR T cells with dual targeting of CD19 and CD22 in adult patients with recurrent or refractory B cell malignancies: a phase 1 trial.** *Nature medicine*  
Spiegel, J. Y., Patel, S., Muffly, L., Hossain, N. M., Oak, J., Baird, J. H., Frank, M. J., Shiraz, P., Sahaf, B., Craig, J., Iglesias, M., Younes, S., Natkunam, et al  
2021
- **Pitfalls in the Diagnosis of Nodular Lymphocyte Predominant Hodgkin Lymphoma: Variant Patterns, Borderlines and Mimics** *CANCERS*  
Younes, S., Rojansky, R. B., Menke, J. R., Gratzinger, D., Natkunam, Y.  
2021; 13 (12)
- **DLBCL-Morph: Morphological features computed using deep learning for an annotated digital DLBCL image set.** *Scientific data*  
Vrabac, D., Smit, A., Rojansky, R., Natkunam, Y., Advani, R. H., Ng, A. Y., Fernandez-Pol, S., Rajpurkar, P.

2021; 8 (1): 135

- **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
- **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., Terbruggen, R. n., Stevenson, K. E., Natkunam, et al  
2021; 5 (10): 2447–55
- **The landscape of tumor cell states and ecosystems in diffuse large B cell lymphoma.** *Cancer cell*  
Steen, C. B., Luca, B. A., Esfahani, M. S., Azizi, A., Sworder, B. J., Nabet, B. Y., Kurtz, D. M., Liu, C. L., Khameneh, F., Advani, R. H., Natkunam, Y., Myklebust, J. H., Diehn, et al  
2021
- **Human Germinal Center-associated Lymphoma (HGAL) Is a Reliable Marker of Normal and Neoplastic Follicular Helper T Cells Including Angioimmunoblastic T-Cell Lymphoma.** *The American journal of surgical pathology*  
Koo, M., Zhang, J., Tan, B., Kurzer, J., Gratzinger, D., Zhao, S., Suarez, C., Lossos, I. S., Warnke, R. A., Natkunam, Y.  
2021
- **Conditional expression of HGAL leads to the development of diffuse large B-cell lymphoma in mice.** *Blood*  
Raboso-Gallego, J., Casado-Garcia, A., Jiang, X., Isidro-Hernandez, M., Gentles, A. J., Zhao, S., Natkunam, Y., Blanco, O., Dominguez, V., Pintado, B., De Las Rivas, J., Alonso-Lopez, D., Vicente-Duenas, et al  
2020
- **Stage I-II Nodular Lymphocyte-Predominant Hodgkin Lymphoma: a Multi-institutional Experience of Adult Patients by ILROG.** *Blood*  
Binkley, M. S., Rauf, M. S., Milgrom, S. A., Pinnix, C. C., Tsang, R. W., Dickinson, M. n., Ng, A. n., Roberts, K. B., Gao, S. n., Balogh, A. G., Ricardi, U. n., Levis, M. n., Casulo, et al  
2020
- **CD22-Directed CAR T-Cell Therapy Induces Complete Remissions in CD19-Directed CAR-Refractory Large B-Cell Lymphoma.** *Blood*  
Baird, J. H., Frank, M. J., Craig, J. n., Patel, S. n., Spiegel, J. Y., Sahaf, B. n., Oak, J. S., Younes, S. n., Ozawa, M. n., Yang, E. n., Natkunam, Y. n., Tamaresis, J. S., Ehlinger, et al  
2020
- **Prognostic Significance of MYC Rearrangement and Translocation Partner in Diffuse Large B-Cell Lymphoma: A Study by the Lunenburg Lymphoma Biomarker Consortium.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*  
Rosenwald, A., Bens, S., Advani, R., Barrans, S., Copie-Bergman, C., Elsensohn, M., Natkunam, Y., Calaminici, M., Sander, B., Baia, M., Smith, A., Painter, D., Pham, et al  
2019: JCO1900743
- **Immunodeficiency-associated lymphoproliferative disorders: time for reappraisal?** *BLOOD*  
Natkunam, Y., Gratzinger, D., Chadburn, A., Goodlad, J. R., Chan, J. C., Said, J., Jaffe, E. S., de Jong, D.  
2018; 132 (18): 1871–78
- **Diagnostic Impact of Next-Generation Sequencing Panels for Lymphoproliferative Neoplasms on Small-Volume Biopsies.** *American journal of clinical pathology*  
Fei, F., Natkunam, Y., Zehnder, J. L., Stehr, H., Gratzinger, D.  
2022
- **Flow Cytometry Forward Scatter as a Predictor of Large Cell Transformation in Follicular Lymphoma: A Retrospective Cyto-Heme Inter-Institutional Collaborative (CHIC) study**  
Menke, J., Wang, L., Xie, Y., Yakubu, R., Balassanian, R., Frank, A., Gupta, S., Kurzer, J., Long, S., Natkunam, Y., Ruiz-Cordero, R., Wen, K., Gratzinger, et al  
SPRINGERNATURE.2022: 989-990
- **Diagnostic Impact of Next Generation Sequencing Panels for Lymphoproliferative Neoplasms on Small Volume Biopsies**  
Fei, F., Natkunam, Y., Zehnder, J., Gratzinger, D.  
SPRINGERNATURE.2022: 948-949

- **Detection of Aberrant CD58 Expression in a Wide Spectrum of Hodgkin and Non-Hodgkin Lymphomas: Implications for CAR T Cell Resistance**  
Younes, S., Libert, D., Zhao, S., Johnsrud, A., Bharadwaj, S., Majzner, R., Frank, M., Miklos, D., Natkunam, Y.  
SPRINGERNATURE.2022: 1046-1048
- **Small Volume Biopsy Diagnostic Yield at Initial versus Recurrence/Transformation of Follicular Lymphoma: A Retrospective Cyto-Heme Inter-Institutional Collaborative (CHIC) Study**  
Fitzpatrick, M., Sundaram, V., Ly, A., Balassanian, R., Gupta, S., Hasserjian, R., Lin, O., Long, S., Menke, J., Natkunam, Y., Ruiz-Cordero, R., Volaric, A., Wang, et al  
SPRINGERNATURE.2022: 949-951
- **T-Cell Immunoreceptor with Ig and ITIM domains (TIGIT) Shows Distinct Expression Patterns Among Lymphoma Subtypes: Implications for Therapeutic Efficacy**  
Libert, D., Zhao, S., Younes, S., Natkunam, Y.  
SPRINGERNATURE.2022: 978-979
- **Digital Spatial Profiling Reveals Spatial Heterogeneity in Nodular Lymphocyte-Predominant Hodgkin Lymphoma**  
Rojansky, R., Younes, S., Subramanian, A., Binkley, M., Natkunam, Y.  
SPRINGERNATURE.2022: 1008-1009
- **Expression of CD47 Protein in Hematolymphoid Neoplasms: Implications for CD47-Mediated Cancer Immunotherapy**  
Zhang, J., Bulterys, P., Fernandez-Pol, S., Younes, S., Zhao, S., Mansoor, A., Natkunam, Y.  
SPRINGERNATURE.2022: 1052-1053
- **Epstein Barr Virus Latency Patterns in Post-Transplant Lymphoproliferative Disorders and EBV plus Mucocutaneous Ulcer: Diagnostic and Prognostic Implications**  
Volaric, A., Saleem, A., Lawrence, L., Younes, S., Libert, D., Zhao, S., Natkunam, Y.  
SPRINGERNATURE.2022: 1032-1033
- **Diagnostic Discrepancies in the Clinical Workup of Follicular Lymphoma Using Small Volume Biopsies: A Multi-Institutional Collaborative Study**  
Volaric, A., Lin, O., Zadeh, S., Gupta, S., Reed, D., Fitzpatrick, M., Ly, A., Hasserjian, R., Balassanian, R., Frank, A., Long, S., Ruiz-Cordero, R., Wang, et al  
SPRINGERNATURE.2022: 308-309
- **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.  
2022; 107 (1): 347-350
- **Global Cytopathology-Hematopathology Practice Trends.** *American journal of clinical pathology*  
Zadeh, S. L., Balassanian, R., Cheung, M. C., Falchi, L., Hasserjian, R., Lin, O., Long, S. R., Menke, J. R., Mou, E., Natkunam, Y., Ruiz-Cordero, R., Volaric, A. K., Wang, et al  
2021
- **ERG Immunoreactivity in Blastic Hematolymphoid Neoplasms: Diagnostic Pitfall in the Workup of Undifferentiated Malignant Neoplasms.** *Applied immunohistochemistry & molecular morphology : AIMM*  
Koo, M., Natkunam, Y.  
2021
- **Impact of initial biopsy type on the time to final diagnostic biopsy in patients with follicular lymphoma and suspected histologic transformation.** *Leukemia & lymphoma*  
Mou, E., Falchi, L., Sundaram, V., Abramson, J. S., Balassanian, R., Beygi, S., Fitzpatrick, M. J., Frank, A. K., Gupta, S., Lin, O., Long, S. R., Menke, J. R., Reed, et al  
2021: 1-9
- **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.  
SPRINGERNATURE.2021: 1172-73
- **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.  
SPRINGERNATURE.2021: 1172-73

- **Stage I-II diffuse large B-cell lymphoma treated with rituximab and chemotherapy with or without radiotherapy.** *Leukemia & lymphoma*  
Binkley, M. S., Hiniker, S. M., Younes, S., Yoo, C., Wignarajah, A., Jin, M., Guo, H. H., Gupta, N. K., Natkunam, Y., Advani, R. H., Hoppe, R. T.  
2021: 1–15
- **Increased double-negative  $\text{CD}4^+$  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.  
2021
- **HGAL inhibits lymphoma dissemination by interacting with multiple Cytoskeletal proteins.** *Blood advances*  
Jiang, X., Lu, X., Gentles, A. J., Zhao, D., Wander, S. A., Zhang, Y., Natkunam, Y., Slingerland, J., Reis, I. M., Rabinovich, B., Abdulreda, M. H., Moy, V. T., Lossos, et al  
2021
- **Elusive sentinels at the Hodgkin checkpoint.** *Blood*  
Younes, S., Natkunam, Y.  
2020; 136 (25): 2841–42
- **Long-Term Outcomes For Stage I-II Diffuse Large B-Cell Lymphoma Treated With Rituximab And Chemotherapy With Or Without Radiotherapy**  
Binkley, M. S., Hiniker, S. M., Younes, S., Yoo, C., Wignarajah, K., Jin, M., Guo, H. H., Natkunam, Y., Advani, R. H., Hoppe, R. T.  
ELSEVIER SCIENCE INC.2020: E758
- **FOXes at play in the lymphoma landscape.** *Leukemia & lymphoma*  
Younes, S., Natkunam, Y.  
2020: 1–3
- **Myeloid Cell Nuclear Differentiation Antigen (MND1) Positivity in Primary Follicles: Potential Pitfall in the Differential Diagnosis With Marginal Zone Lymphoma** *APPLIED IMMUNOHISTOCHEMISTRY & MOLECULAR MORPHOLOGY*  
Manohar, V., Peerani, R., Tan, B., Gratzinger, D., Natkunam, Y.  
2020; 28 (5): 384–88
- **Merkel Cell Carcinoma of Lymph Node is Metastatic Cutaneous Merkel Cell Carcinoma**  
Lawrence, L., Kunder, C., Stehr, H., Saleem, A., Natkunam, Y., Zehnder, J., Pinsky, B., Sahoo, M., Tan, S.  
NATURE PUBLISHING GROUP.2020: 824–26
- **Optimization and Cost Savings with Reduction of Negative Immunohistochemical Reagent Controls**  
Scapa, J., Troxell, M., Fernandez-Pol, S., Natkunam, Y.  
NATURE PUBLISHING GROUP.2020: 1899
- **HGAL and LMO2: Potential Markers of T Follicular Helper (TFH) Phenotype**  
Koo, M., Natkunam, Y.  
NATURE PUBLISHING GROUP.2020: 1326–27
- **ERG Immunoreactivity is a Diagnostic Pitfall and a Promising Marker of Blastic Myelomonocytic Neoplasms**  
Koo, M., Natkunam, Y.  
NATURE PUBLISHING GROUP.2020: 1324–26
- **CD20-Negative Nodular Lymphocyte-Predominant Hodgkin Lymphoma: A 20-Year Consecutive Case Series From a Tertiary Cancer Center.** *Archives of pathology & laboratory medicine*  
Menke, J. R., Spinner, M. A., Natkunam, Y. n., Warnke, R. A., Advani, R. H., Gratzinger, D. A.  
2020
- **Extranodal NK/T-Cell Lymphomas: The Role of Natural Killer Cells and EBV in Lymphomagenesis.** *International journal of molecular sciences*  
Saleem, A. n., Natkunam, Y. n.  
2020; 21 (4)
- **Is Merkel Cell Carcinoma of Lymph Node Actually Metastatic Cutaneous Merkel Cell Carcinoma?** *American journal of clinical pathology*  
Lawrence, L. E., Saleem, A. n., Sahoo, M. K., Tan, S. K., Pinsky, B. A., Natkunam, Y. n., Kunder, C. A., Stehr, H. n., Zehnder, J. L.  
2020
- **KLF1/EKLF expression in acute leukemia is correlated with chromosomal abnormalities.** *Blood cells, molecules & diseases*

- Mansoor, A. n., Mansoor, M. O., Patel, J. L., Zhao, S. n., Natkunam, Y. n., Bieker, J. J.  
2020; 83: 102434
- **Genetic Subtypes of Systemic Anaplastic Large Cell Lymphoma Show Distinct Differences in PD-L1 Expression and Regulatory and Cytotoxic T Cells in the Tumor Microenvironment.** *Applied immunohistochemistry & molecular morphology : AIMM*  
Ferreira, C. R., Manohar, V. n., Zhao, S. n., Bangs, C. D., Cherry, A. n., Azevedo, R. S., Lage, L. A., Pereira, J. n., Zerbini, M. C., Gratzinger, D. n., Natkunam, Y. n.  
2020; 28 (1): 10–16
  - **Role of FNA with core biopsy or cell block in patients with nodular lymphocyte-predominant Hodgkin lymphoma.** *Cancer cytopathology*  
Gupta, S. n., Long, S. R., Natkunam, Y. n., Kong, C. S., Gupta, N. K., Gratzinger, D. n.  
2020
  - **An Atlas of Clinically-Distinct Tumor Cellular Ecosystems in Diffuse Large B Cell Lymphoma**  
Steen, C. B., Luca, B. A., Esfahani, M., Nabet, B. Y., Sworder, B., Farshidfar, F., Shamardani, K., Kurtz, D. M., Liu, C., Advani, R. H., Natkunam, Y., Myklebust, J., Diehn, et al  
AMER SOC HEMATOLOGY.2019
  - **High Accuracy, Low-Cost Transcriptional Diagnostic to Transform Lymphoma Care in Low- and Middle-Income Countries**  
Briercheck, E., Valvert, F., Solorzano, E., Silva, O., Puligandla, M., Tala, M., Guyon, T., Dixon, S. L., Terbrueggen, R., Natkunam, Y., Stevenson, K. E., Weinstock, D. M.  
AMER SOC HEMATOLOGY.2019
  - **A Clinically-Indolent Variant of Extranodal NK/T Cell Lymphoma with Unique Immunophenotypic Profile and Superior Outcome**  
Valvert, F., Solorzano, E., Briercheck, E., Tala, M., Natkunam, Y., Weinstock, D. M., Silva, O.  
AMER SOC HEMATOLOGY.2019
  - **Deep Sequencing of Viral Cell-Free DNA for Noninvasive Detection of Immunosuppression-Related Lymphoid Malignancies**  
Garofalo, A., Schroers-Martin, J. G., Soo, J., Kurtz, D. M., Sworder, B., Liu, C., Pinsky, B. A., Luikart, H., Advani, R. H., Natkunam, Y., Khush, K., Diehn, M., Alizadeh, et al  
AMER SOC HEMATOLOGY.2019
  - **Clinicopathologic and microenvironmental analysis of primary cutaneous CD30-positive lymphoproliferative disorders: a 26year experience from an academic medical center in Brazil.** *Diagnostic pathology*  
Ferreira, C. R., Zhao, S., Sanches, J. A., Miyashiro, D., Cury-Martins, J., Azevedo, R. S., Zerbini, M. C., Natkunam, Y., Gratzinger, D.  
2019; 14 (1): 115
  - **Extranodal natural killer/T cell lymphoma (ENKTL) exhibits an unprecedented degree of global DNA hypermethylation, providing a potent targeted therapy in vivo**  
Weigel, C., Mundy-Bosse, B. L., Wu, Y., McConnell, K., Mishra, A., Caligiuri, M. A., Baiocchi, R. A., Natkunam, Y., Porcu, P., Brammer, J., Freud, A. G., Oakes, C. C.  
AMER ASSOC CANCER RESEARCH.2019
  - **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
  - **An analysis of mediastinal B cell lymphomas identifies metachronous occurrence of classic Hodgkin lymphoma (CHL), primary mediastinal large B-cell lymphoma (PMBL), and mediastinal gray-zone lymphoma (MGZL)**  
Lezama, L., Charu, V., Koo, M., Natkunam, Y.  
NATURE PUBLISHING GROUP.2019
  - **An analysis of mediastinal B cell lymphomas identifies metachronous occurrence of classic Hodgkin lymphoma (CHL), primary mediastinal large B-cell lymphoma (PMBL), and mediastinal gray-zone lymphoma (MGZL)**  
Lezama, L., Charu, V., Koo, M., Natkunam, Y.  
NATURE PUBLISHING GROUP.2019
  - **CD20-negative nodular lymphocyte-predominant Hodgkin lymphoma is enriched for variant patterns and shows aggressive clinical features**  
Menke, J., Spinner, M., Shrestha, B., Advani, R., Natkunam, Y., Gratzinger, D.  
NATURE PUBLISHING GROUP.2019

- **CD20-negative nodular lymphocyte-predominant Hodgkin lymphoma is enriched for variant patterns and shows aggressive clinical features**  
Menke, J., Spinner, M., Shrestha, B., Advani, R., Natkunam, Y., Gratzinger, D.  
NATURE PUBLISHING GROUP.2019
- **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): E126+
- **Myeloid Cell Nuclear Differentiation Antigen (MND1) Positivity in Primary Follicles: Potential Pitfall in the Differential Diagnosis With Marginal Zone Lymphoma.** *Applied immunohistochemistry & molecular morphology : AIMM*  
Manohar, V., Peerani, R., Tan, B., Gratzinger, D., Natkunam, Y.  
2019
- **High frequency of CD74 expression in lymphomas: implications for targeted therapy using a novel anti-CD74-drug conjugate** *JOURNAL OF PATHOLOGY CLINICAL RESEARCH*  
Zhao, S., Molina, A., Yu, A., Hanson, J., Cheung, H., Li, X., Natkunam, Y.  
2019; 5 (1): 12–24
- **Granulysin, a novel marker for extranodal NK/T cell lymphoma, nasal type** *VIRCHOWS ARCHIV*  
Lo Bello, G., Akarca, A. U., Ambrosio, M., Agostinelli, C., Molina-Kirsch, H., Ramsay, A., Rodriguez-Justo, M., Pugh, M., Zhao, S., DeLisser, M., Sabbatini, E., Dojcinov, S., Pileri, et al  
2018; 473 (6): 749–57
- **Immunohistochemistry for PAX7 is a useful confirmatory marker for Ewing sarcoma in decalcified bone marrow core biopsy specimens** *VIRCHOWS ARCHIV*  
Fernandez-Pol, S., van de Rijn, M., Natkunam, Y., Charville, G. W.  
2018; 473 (6): 765–69
- **Immune checkpoint blockade as a potential therapeutic strategy for undifferentiated malignancies** *HUMAN PATHOLOGY*  
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