Stanford



Ronald Levy, MD

Robert K. and Helen K. Summy Professor in the School of Medicine

Medicine - Oncology

NIH Biosketch available Online Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Lymphoma Clinic**
  875 Blake Wilbur Dr Clinic C
  Stanford, CA 94305
  Tel (650) 498-6000 **Fax** (650) 725-9113

Bio

CLINICAL FOCUS

- Cancer > Lymphoma
- Lymphoma
- Non-Hodgkin's Lymphoma
- Non-Hodgkin's Lymphoma - Medical Oncology
- Burkitt's Lymphoma
- Burkitt's Lymphoma - Medical Oncology
- Hodgkin's Disease
- Hodgkin's Disease - Medical Oncology
- Burkitt's Lymphoma - Hematology
- Hodgkin's Disease - Hematology
- Oncology (Cancer)
- Non-Hodgkin's Lymphoma - Hematology
- Medical Oncology

ACADEMIC APPOINTMENTS

- Professor, Medicine - Oncology
- Member, Bio-X
- Member, Stanford Cancer Institute

HONORS AND AWARDS

- Karnofsky Award, American Society of Clinical Oncology (1999)
- Charles Kettering Prize, General Motors Cancer Research Foundation (1999)
- C.Chester Stock Award, Memorial Sloan-Kettering Cancer Center (2000)

- Medal of Honor, American Cancer Society (2000)
- Jeffrey A. Gottlieb Memorial Award, M.D. Anderson Cancer Center (2003)
- Damashek Prize, American Society of Hematology (2004)
- Member, Institute of Medicine (2007)
- di Villiers International Achievement Award, Leukemia and Lymphoma Society (2007)
- Member, National Academy of Sciences (2008)
- King Faisal International Prize, King Faisal Foundation (2009)

PROFESSIONAL EDUCATION

- Medical Education: Stanford University School of Medicine (1968) CA
- Fellowship: Stanford University School of Medicine (1973) CA
- Board Certification: Medical Oncology, American Board of Internal Medicine (1979)
- Residency: Massachusetts General Hospital (1970) MA
- Internship: Massachusetts General Hospital (1969) MA
- Board Certification: Internal Medicine, American Board of Internal Medicine (1973)
- AB, Harvard University , Biochemistry (1963)
- MD, Stanford Univerisity , Medicine (1968)

LINKS

- http://med.stanford.edu/labs/ronald_levy/: http://med.stanford.edu/labs/ronald_levy/
- Personal Web site: http://med.stanford.edu/labs/ronald_levy/
- Get a Second Opinion: https://stanfordhealthcare.org/second-opinion/overview.html

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our research concentrates on the study of malignant lymphoma and tumors of the immune system using the tools of immunology and molecular biology to develop a better understanding of the initiation and progression of the malignant process. Receptor molecules present on the surface of tumor cells transmit signals for regulation of cell growth. These receptors include the immunoglobulin molecule on B cell tumors and the T cell receptor on T cell tumors. Questions the lab is currently addressing include:

1. Can a clue to the pathogenesis of lymphoma be derived from a study of their antigen receptors?
2. Can new treatments for lymphoma be developed by targeting receptors with monoclonal antibodies?
3. Can vaccines be developed which can induce an immune response in the host against the receptors on their own tumor?

CLINICAL TRIALS

- Clinical and Pathologic Studies in Non-Hodgkin's Lymphoma and Hodgkin's Disease, Recruiting
- A Multi-Center Study of Ibrutinib in Combination With MEDI4736 in Subjects With Relapsed or Refractory Lymphomas, Not Recruiting
- A Phase 2 Intratumoral Injection PF-3512676 Plus Local Radiation in Low-Grade B-Cell Lymphomas, Not Recruiting
- A Phase I/II Study of Intratumoral Injection of SD-101, Not Recruiting
- A Study of PCI-32765 (Ibrutinib) in Patients With Refractory Follicular Lymphoma, Not Recruiting
- A Study Of PF-05082566 As A Single Agent And In Combination With Rituximab, Not Recruiting
- Clinical and Pathologic Studies in Non-Hodgkin's Lymphoma Patients Receiving Antibody Treatment, Not Recruiting

- Combination Study of Urelumab and Rituximab in Patients With B-cell Non-Hodgkins Lymphoma, Not Recruiting
- CPG 7909 + Local Radiotherapy in Recurrent Low-Grade Lymphomas, Not Recruiting
- Efficacy and Safety Study of Fostamatinib Tablets to Treat B-cell Lymphoma, Not Recruiting
- Phase 1-2 of a CpG-Activated Whole Cell Vaccine Followed by Autologous Immunotransplant for MCL, Not Recruiting
- Safety and Efficacy Study of Idelalisib (GS-1101, CAL-101) in Patients With Previously Treated Low-grade Lymphoma, Not Recruiting
- Safety, Tolerability, Pharmacokinetics, and Immunoregulatory Study of Urelumab (BMS-663513) in Subjects With Advanced and/or Metastatic Solid Tumors and Relapsed/Refractory B-cell Non-Hodgkin's Lymphoma, Not Recruiting
- Study of SD-101 in Combination With Localized Low-dose Radiation in Patients With Untreated Low-grade B-cell Lymphoma, Not Recruiting
- TLR9 Agonist SD-101, Anti-OX40 Antibody BMS 986178, and Radiation Therapy in Treating Patients With Low-Grade B-Cell Non-Hodgkin Lymphomas, Not Recruiting
- TLR9 Agonist SD-101, Ibrutinib, and Radiation Therapy in Treating Patients With Relapsed or Refractory Grade 1-3A Follicular Lymphoma, Not Recruiting
- Vaccine Therapy and GM-CSF in Treating Patients With Progressive Non-Hodgkin's Lymphoma, Not Recruiting
- Vaccine Therapy for Multiple Myeloma Utilizing Idiotype-Pulsed Allogeneic Dendritic Cells, Not Recruiting
- VTX-2337 in Combination With Radiotherapy in Patients Low-Grade B-cell Lymphomas, Not Recruiting
- Personalized Active Immunotherapy (Vaccine Therapy) and Sargramostim Given After Standard of Care Treatment With Rituximab and Chemotherapy for Initial Treatment With Lymphoma, Not Specified
- Phase I/II Study of Intratumoral Injection of CPG 7909, a TLR9 Agonist, Combined With Local Radiation for Patients With Recurrent Mycosis Fungoides., Not Specified

Teaching

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Markus Diehl, Katie Fang, Phillip Liu, Vishnu Shankar, Aaron Trotman-Grant

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (PhD Program)
- Immunology (PhD Program)

Publications

PUBLICATIONS

- **In vivo generation of CAR-T cells using IL-7 functionalized T cell-targeting LNPs**
  Zhang, N., Tumbale, S., Raie, M., Jan, B., Levy, R., Ferrara, K.
  CELL PRESS.2026: 67-69
- **Idiotype mRNA therapeutic vaccination in a mouse model of B cell lymphoma**
  Czerwinski, D., Abu Saleh, N., Khasnavis, S., Huancas, C., Calla, N., Waymouth, R., Wender, P., Levy, R.
  ELSEVIER.2025
- **In Vivo mRNA Delivery to the Lung Vascular Endothelium by Dicationic Charge-Altering Releasable Transporters.** *Journal of the American Chemical Society*
  AbdElwakil, M. M., Ni, J., Ramsay-Burrough, S., Hurst, P. J., McClellan, R. L., Khasnavis, S. R., Jia, Y., Masud, S. R., Blake, T. R., Sallets, A., Haabeth, O. A., Sagiv-Barfi, I., Czerwinski, et al
  2025
- **Co-occurrence of clonally related follicular lymphoma and histiocytic sarcoma.** *Blood cancer journal*
  Haebe, S., Czerwinski, D. K., Sathe, A., Grimes, S. M., Chen, T., Suarez, C. J., Martin, B., Ji, H. P., Levy, R., Shree, T.
  2025; 15 (1): 131

- **Development of an in situ CAR-T cell protocol through optical and PSMA-targeted PET imaging.** *Proceedings of the National Academy of Sciences of the United States of America*
  Zhang, N., Seo, J. W., Robinson, E., Rivera-Rodriguez, A., Wang, J., Guo, Y., Czerwinski, D. K., Kim, H. R., Tumbale, S. K., Raie, M. N., Jan, B. L., Engudar, G., Sallets, et al
  2025; 122 (24): e2504950122

- **A phase I clinical trial adding OX40 agonism to in situ therapeutic cancer vaccination in patients with low-grade B cell lymphoma highlights challenges in translation from mouse to human studies.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
  Shree, T., Czerwinski, D., Haebe, S., Sathe, A., Grimes, S., Martin, B., Ozawa, M., Hoppe, R., Ji, H., Levy, R.
  2025

- **Isoprenoid CARTs: In Vitro and In Vivo mRNA Delivery by Charge-Altering Releasable Transporters Functionalized with Archaea-inspired Branched Lipids.** *Biomacromolecules*
  Rahn, H. P., Sun, J., Li, Z., Waymouth, R. M., Levy, R., Wender, P. A.
  2024

- **PET Imaging of In Situ-Engineered CAR-T Cells in B Cell Lymphoma with ⁶⁸Ga-PSMA-11**
  Zhang, N., Seo, J., Robinson, E., Rivera-Rodriguez, A., Wang, J., Guo, Y., Wu, B., Tumbale, S. K., Raie, M. N., Inayathullah, M., Czerwinski, D. K., Levy, R., Ferrara, et al
  CELL PRESS.2024: 69-70

- **Toward the Development of Functional Biomarker Assays: Analysis of Neoadjuvant Intralesional Oncolytic Virus Response in High-Risk Stage II Melanoma**
  Kirane, A., Lee, D., Ahmad, M., Sharma, S., Serasanambati, M., Lowe, M., Applebee, C., Safrygina, E., Swetter, S., Reddy, S., Warner, A., Funchain, P., Wang, et al
  SPRINGER.2024: S33-S34

- **A clinical trial of therapeutic vaccination in lymphoma with serial tumor sampling and single cell analysis.** *Blood advances*
  Shree, T., Haebe, S. E., Czerwinski, D. K., Eckhert, E., Day, G., Sathe, A., Grimes, S. M., Frank, M. J., Maeda, L., Alizadeh, A. A., Advani, R. H., Hoppe, R. T., Long, et al
  2023

- **Co-Occurrence of Clonally Related Follicular Lymphoma and Histiocytic Sarcoma**
  Haebe, S., Czerwinski, D. K., Sathe, A., Grimes, S., Chen, T., Martin, B., Ji, H., Levy, R., Shree, T.
  AMER SOC HEMATOLOGY.2023

- **Loss of the OX40 Target in Lymphoma Patients after Combining an Anti-OX40 Agonist Antibody with in Situ Vaccination**
  Czerwinski, D. K., Shree, T., Haebe, S., Shi, S., Long, S. R., Martin, B., Levy, R.
  AMER SOC HEMATOLOGY.2023

- **Follicular lymphoma evolves with a surmountable dependency on acquired glycosylation motifs in the B cell receptor.** *Blood*
  Haebe, S. E., Day, G., Czerwinski, D. K., Sathe, A., Grimes, S. M., Chen, T., Long, S. R., Martin, B. A., Ozawa, M. G., Ji, H. P., Shree, T., Levy, R.
  2023

- **Single-cell multi-gene identification of somatic mutations and gene rearrangements in cancer.** *NAR cancer*
  Grimes, S. M., Kim, H. S., Roy, S., Sathe, A., Ayala, C. I., Bai, X., Almeda-Notestine, A. F., Haebe, S., Shree, T., Levy, R., Lau, B. T., Ji, H. P.
  2023; 5 (3): zcad034

- **The molecular mechanism of CD81 antibody inhibition of metastasis.** *Proceedings of the National Academy of Sciences of the United States of America*
  Abu-Saleh, N., Kuo, C. C., Jiang, W., Levy, R., Levy, S.
  2023; 120 (26): e2305042120

- **Targeted TLR9 Agonist Elicits Effective Antitumor Immunity against Spontaneously Arising Breast Tumors.** *Journal of immunology (Baltimore, Md. : 1950)*
  Miller, C. L., Sagiv-Barfi, I., Neuhöfer, P., Czerwinski, D. K., Bertozzi, C. R., Cochran, J. R., Levy, R.
  2023

- **Lysine-Derived Charge-Altering Releasable Transporters: Targeted Delivery of mRNA and siRNA to the Lungs.** *Bioconjugate chemistry*

Blake, T. R., Haabeth, O. A., Sallets, A., McClellan, R. L., Del Castillo, T. J., Vilches-Moure, J. G., Ho, W. C., Wender, P. A., Levy, R., Waymouth, R. M.

2023

- **Rituximab Chimeric Anti-CD20 Monoclonal Antibody Therapy for Relapsed Indolent Lymphoma: Half of Patients Respond to a Four-Dose Treatment Program** *JOURNAL OF CLINICAL ONCOLOGY*

  McLaughlin, P., Grillo-Lopez, A. J., Link, B. K., Levy, R., Czuczman, M. S., Williams, M. E., Heyman, M. R., Bence-Bruckler, I., White, C. A., Cabanillas, F., Jain, V., Ho, A. D., Lister, et al

  2023; 41 (2): 154-162

- **Activating Immune Effectors and Dampening Immune Suppressors Generates Successful Therapeutic Cancer Vaccination in Patients with Lymphoma**

  Shree, T., Haebe, S., Czerwinski, D. K., Eckhert, E., Day, G., Sathe, A., Grimes, S. M., Frank, M. J., Maeda, L. S., Alizadeh, A. A., Advani, R. H., Hoppe, R., Long, et al

  AMER SOC HEMATOLOGY.2022: 6450-6451

- **Prevalence of Acquired N-Glycosylation Sites at the Single Cell Level in Follicular Lymphoma**

  Haebe, S., Shree, T., Day, G., Czerwinski, D. K., Sathe, A., Grimes, S. M., Long, S. R., Martin, B., Ozawa, M. G., Ji, H. P., Levy, R.

  AMER SOC HEMATOLOGY.2022: 9211-9212

- **PROFILING THE EFFECTS OF TARGETED TLR9 STIMULATION WITHIN SPONTANEOUSLY ARISING BREAST TUMORS**

  Miller, C., Sagiv-Barfi, I., Neuhoefer, P., Czerwinski, D., Bertozzi, C., Cochran, J., Levy, R.

  BMJ PUBLISHING GROUP.2022: A1209

- **PARP14 is a novel target in STAT6 mutant follicular lymphoma.** *Leukemia*

  Mentz, M., Keay, W., Strobl, C. D., Antoniolli, M., Adolph, L., Heide, M., Lechner, A., Haebe, S., Osterode, E., Kridel, R., Ziegenhain, C., Wange, L. E., Hildebrand, et al

  2022

- **Fingolimod-Conjugated Charge-Altering Releasable Transporters Efficiently and Specifically Deliver mRNA to Lymphocytes In Vivo and In Vitro.** *Biomacromolecules*

  Testa, S., Haabeth, O. A., Blake, T. R., Del Castillo, T. J., Czerwinski, D. K., Rajapaksa, R., Wender, P. A., Waymouth, R. M., Levy, R.

  2022

- **Intratumoral immunotherapy relies on B and T cell collaboration.** *Science immunology*

  Sagiv-Barfi, I., Czerwinski, D. K., Shree, T., Lohmeyer, J. J., Levy, R.

  2022; 7 (71): eabn5859

- **Neoadjuvant Intratumoral Immunotherapy with TLR9 Activation and Anti-OX40 Antibody Eradicates Metastatic Cancer.** *Cancer research*

  Hong, W. X., Sagiv-Barfi, I., Czerwinski, D. K., Sallets, A., Levy, R.

  2022

- **CD81 costimulation skews CAR transduction toward naive T cells.** *Proceedings of the National Academy of Sciences of the United States of America*

  Schultz, L. M., Czerwinski, D. K., Levy, R., Levy, S.

  1800; 119 (5)

- **CD20-Targeted Therapy Ablates De Novo Antibody Response to Vaccination but Spares Pre-Established Immunity.** *Blood cancer discovery*

  Shree, T., Shankar, V., Lohmeyer, J. J., Czerwinski, D. K., Schroers-Martin, J. G., Rodriguez, G. M., Beygi, S., Kanegai, A. M., Corbelli, K. S., Gabriel, E., Kurtz, D. M., Khodadoust, M. S., Gupta, et al

  2022

- **Time Since Last Anti-CD20 Treatment Is a Major Determinant of Sars-Cov-2 Vaccine Response in a Large Cohort of Patients with B-Cell Lymphoma**

  Shree, T., Shankar, V., Czerwinski, D. K., Rodriguez, G., Beygi, S., Schroers-Martin, J. G., Advani, R., Maeda, L. S., Gupta, N. K., Khodadoust, M. S., Kurtz, D. M., Corbelli, K. S., Gabriel, et al

  AMER SOC HEMATOLOGY.2021

- **In Situ Vaccination with IL-12Fc and TLR Agonist - a Crucial Role for B Cells in Generating Anti-Tumor T Cell Immunity**

  Barfi, I., Czerwinski, D. K., Levy, R.

  AMER SOC HEMATOLOGY.2021

- **Therapeutic and Immunologic Responses Elicited By in Situ Vaccination with CpG, Ibrutinib, and Low-Dose Radiation**
  Shree, T., Haebe, S., Czerwinski, D. K., Day, G., Sathe, A., Khodadoust, M. S., Frank, M. J., Beygi, S., Hoppe, R., Long, S. R., Martin, B., Ji, H. P., Levy, et al
  AMER SOC HEMATOLOGY.2021

- **In Situ Vaccination Induces Changes in Follicular Lymphoma Tumor Cells That Correlate with Abscopal Clinical Regressions**
  Haebe, S., Shree, T., Day, G., Sathe, A., Czerwinski, D. K., Grimes, S. M., Long, S. R., Martin, B., Hoppe, R., Ji, H. P., Levy, R.
  AMER SOC HEMATOLOGY.2021

- **SYSTEMIC DELIVERY OF A TUMOR-TARGETED TLR9 AGONIST CONJUGATE TRANSFORMS THE TUMOR IMMUNE LANDSCAPE AND INDUCES TUMOR REGRESSION IN MICE**
  Candidate, C., Sagiv-Barfi, I., Neuhoefer, P., Czerwinski, D., Artandi, S., Bertozzi, C., Levy, R., Cochran, J.
  BMJ PUBLISHING GROUP.2021: A803

- **An mRNA SARS-CoV-2 Vaccine Employing Charge-Altering Releasable Transporters with a TLR-9 Agonist Induces Neutralizing Antibodies and T Cell Memory.** *ACS central science*
  Haabeth, O. A., Lohmeyer, J. J., Sallets, A., Blake, T. R., Sagiv-Barfi, I., Czerwinski, D. K., McCarthy, B., Powell, A. E., Wender, P. A., Waymouth, R. M., Levy, R.
  2021; 7 (7): 1191-1204

- **Single Cell Analysis Can Define Distinct Evolution of Tumor Sites in Follicular Lymphoma.** *Blood*
  Haebe, S. E., Shree, T. n., Sathe, A. n., Day, G. n., Czerwinski, D. K., Grimes, S. n., Lee, H. n., Binkley, M. S., Long, S. R., Martin, B. A., Ji, H. P., Levy, R. n.
  2021

- **How to Provide the Needed Protection from COVID-19 to Patients with Hematologic Malignancies.** *Blood cancer discovery*
  Ribas, A., Dhodapkar, M. V., Campbell, K. M., Davies, F. E., Gore, S. D., Levy, R., Greenberger, L. M.
  2021; 2 (6): 562-567

- **Systemic delivery of a targeted synthetic immunostimulant transforms the immune landscape for effective tumor regression.** *Cell chemical biology*
  Miller, C. L., Sagiv-Barfi, I., Neuhöfer, P., Czerwinski, D. K., Artandi, S. E., Bertozzi, C. R., Levy, R., Cochran, J. R.
  2021

- **Serial FNA allows direct sampling of malignant and infiltrating immune cells in patients with B-cell lymphoma receiving immunotherapy.** *Cancer cytopathology*
  Mooney, K. L., Czerwinski, D. K., Shree, T., Frank, M. J., Haebe, S., Martin, B. A., Testa, S., Levy, R., Long, S. R.
  2021

- **Targeting the tetraspanin CD81 reduces cancer invasion and metastasis.** *Proceedings of the National Academy of Sciences of the United States of America*
  Vences-Catalán, F., Rajapaksa, R., Kuo, C. C., Miller, C. L., Lee, A., Ramani, V. C., Jeffrey, S. S., Levy, R., Levy, S.
  2021; 118 (24)

- **Society for Immunotherapy of Cancer (SITC) clinical practice guideline on immunotherapy for the treatment of lymphoma.** *Journal for immunotherapy of cancer*
  Neelapu, S. S., Adkins, S., Ansell, S. M., Brody, J., Cairo, M. S., Friedberg, J. W., Kline, J. P., Levy, R., Porter, D. L., van Besien, K., Werner, M., Bishop, M. R.
  2020; 8 (2)

- **Neoadjuvant Immunotherapy for Solid Tumors**
  Hong, W., Sagiv-Barfi, I., Czerwinski, D., Levy, R.
  ELSEVIER SCIENCE INC.2020: S275

- **Neoadjuvant immunotherapy for solid tumors**
  Hong, W., Sagiv-Barfi, I., Czerwinski, D., Levy, R.
  AMER ASSOC CANCER RESEARCH.2020

- **Impaired Immune Health in Survivors of Diffuse Large B-Cell Lymphoma.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*
  Shree, T., Li, Q., Glaser, S. L., Brunson, A., Maecker, H. T., Haile, R. W., Levy, R., Keegan, T. H.

2020: JCO1901937

- **Urelumab alone or in combination with rituximab in patients with relapsed or refractory B-cell lymphoma.** *American journal of hematology*
  Timmerman, J., Herbaux, C., Ribrag, V., Zelenetz, A. D., Houot, R., Neelapu, S. S., Logan, T., Lossos, I. S., Urba, W., Salles, G., Ramchandren, R., Jacobson, C., Godwin, et al
  2020

- **Could anti-CD20 therapy jeopardise the efficacy of a SARS-CoV-2 vaccine?** *European journal of cancer (Oxford, England : 1990)*
  Houot, R. n., Levy, R. n., Cartron, G. n., Armand, P. n.
  2020; 136: 4–6

- **First-in-Human Study of Utomilumab, a 4-1BB/CD137 Agonist, in Combination with Rituximab in Patients with Follicular and Other CD20+ Non-Hodgkin Lymphomas.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
  Gopal, A. K., Levy, R. n., Houot, R. n., Patel, S. P., Popplewell, L. n., Jacobson, C. n., Mu, X. J., Deng, S. n., Ching, K. A., Chen, Y. n., Davis, C. B., Huang, B. n., Fly, et al
  2020

- **Intratumoral immunotherapy for early stage solid tumors.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
  Hong, W. X., Haebe, S. n., Lee, A. n., Westphalen, B. n., Norton, J. A., Jiang, W. n., Levy, R. n.
  2020

- **Charge-altering releasable transporters enable phenotypic manipulation of natural killer cells for cancer immunotherapy.** *Blood advances*
  Wilk, A. J., Weidenbacher, N. L., Vergara, R. n., Haabeth, O. A., Levy, R. n., Waymouth, R. M., Wender, P. A., Blish, C. A.
  2020; 4 (17): 4244–55

- **Autologous tumor cell vaccine induces antitumor T cell immune responses in patients with mantle cell lymphoma: A phase I/II trial.** *The Journal of experimental medicine*
  Frank, M. J., Khodadoust, M. S., Czerwinski, D. K., Haabeth, O. A., Chu, M. P., Miklos, D. B., Advani, R. H., Alizadeh, A. A., Gupta, N. K., Maeda, L. S., Reddy, S. A., Laport, G. G., Meyer, et al
  2020; 217 (9)

- **Single cell RNA sequencing of serial tumor and blood biopsies from lymphoma patients undergoing in situ vaccination**
  Shree, T., Sathe, A., Ji, H., Levy, R.
  AMER ASSOC CANCER RESEARCH.2019

- **Interim results of a Phase I/II trial of intratumoral CpG, local low-dose radiation, and oral ibrutinib in patients with low-grade B-cell lymphoma**
  Shree, T., Khodadoust, M. S., Czerwinski, D., Frank, M. J., Hong, W. X., Greenstein, R., Guo, S., Long, S., Martin, B. A., Levy, R.
  AMER ASSOC CANCER RESEARCH.2019

- **CD81 is a novel immunotherapeutic target for B cell lymphoma.** *The Journal of experimental medicine*
  Vences-Catalan, F., Kuo, C., Rajapaksa, R., Duault, C., Andor, N., Czerwinski, D. K., Levy, R., Levy, S.
  2019

- **Local Delivery of Ox40l, Cd80, and Cd86 mRNA Kindles Global Anticancer Immunity** *CANCER RESEARCH*
  Haabeth, O., Blake, T. R., McKinlay, C. J., Tveita, A. A., Sallets, A., Waymouth, R. M., Wender, P. A., Levy, R.
  2019; 79 (7): 1624–34

- **Single-cell RNA-Seq of follicular lymphoma reveals malignant B-cell types and coexpression of T-cell immune checkpoints** *BLOOD*
  Andor, N., Simonds, E. F., Czerwinski, D. K., Chen, J., Grimes, S. M., Wood-Bouwens, C., Zheng, G. X. Y., Kubit, M. A., Greer, S., Weiss, W. A., Levy, R., Ji, H. P.
  2019; 133 (10): 1119–29

- **Serial Fine Needle Aspiration (FNA) Allows Direct Sampling of Low-grade Lymphoma Tumor Nodules and Subsequent Analysis of the Tumor and Its Microenvironment in Clinical Trial Patients Receiving Immunotherapy**
  Mooney, K., Long, S., Martin, B., Frank, M., Czerwinski, D., Levy, R., Guo, X., Shree, T., Greenstein, R.
  NATURE PUBLISHING GROUP.2019

- **Serial Fine Needle Aspiration (FNA) Allows Direct Sampling of Low-grade Lymphoma Tumor Nodules and Subsequent Analysis of the Tumor and Its Microenvironment in Clinical Trial Patients Receiving Immunotherapy**
  Mooney, K., Long, S., Martin, B., Frank, M., Czerwinski, D., Levy, R., Guo, X., Shree, T., Greenstein, R.

NATURE PUBLISHING GROUP.2019

- **B-cell lymphomas present immunoglobulin neoantigens** *BLOOD*
  Khodadoust, M. S., Olsson, N., Chen, B., Sworder, B., Shree, T., Liu, C., Zhang, L., Czerwinski, D. K., Davis, M. M., Levy, R., Elias, J. E., Alizadeh, A. A.
  2019; 133 (8): 878–81

- **Local delivery of OX40L, CD80, and CD86 mRNA kindles global anti-cancer immunity.** *Cancer research*
  Haabeth, O. A., Blake, T. R., McKinlay, C. J., Tveita, A. A., Sallets, A., Waymouth, R. M., Wender, P. A., Levy, R.
  2019

- **TIGIT and PD-1 mark intratumoral T cells with reduced effector function in B-cell non-Hodgkin lymphoma.** *Cancer immunology research*
  Josefsson, S. E., Beiske, K., Blaker, Y. N., Forsund, M. S., Holte, H., Ostenstad, B., Kimby, E., Koksal, H., Walchli, S., Bai, B., Smeland, E. B., Levy, R., Kolstad, et al
  2019

- **Predicting HLA class II antigen presentation through integrated deep learning.** *Nature biotechnology*
  Chen, B. n., Khodadoust, M. S., Olsson, N. n., Wagar, L. E., Fast, E. n., Liu, C. L., Muftuoglu, Y. n., Sworder, B. J., Diehn, M. n., Levy, R. n., Davis, M. M., Elias, J. E., Altman, et al
  2019

- **Single-cell RNA-Seq of lymphoma cancers reveals malignant B cell types and co-expression of T cell immune checkpoints.** *Blood*
  Andor, N., Simonds, E. F., Czerwinski, D. K., Chen, J., Grimes, S. M., Wood-Bouwens, C., Zheng, G. X., Kubit, M. A., Greer, S., Weiss, W. A., Levy, R., Ji, H. P.
  2018

- **Single Cell RNA Sequencing of Serial Tumor and Blood Biopsies from Lymphoma Patients on an in Situ Vaccination Clinical Trial**
  Shree, T., Sathe, A., Czerwinski, D. K., Long, S. R., Ji, H., Levy, R.
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