Stanford



Norman J. Lacayo, MD

Associate Professor of Pediatrics (Hematology and Oncology)

Pediatrics - Hematology & Oncology

CLINICAL OFFICE (PRIMARY)

- **Bass Cancer Center for Childhood Cancer and Blood Diseases**

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  Palo Alto, CA 94304

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Bio

CLINICAL FOCUS

- Hematology/Oncology/Stem Cell Transplant, Pediatric
- Oncology (Cancer), Pediatric
- AML, childhood and adolescent/young adult
- ALL, childhood and adolescent/young adult
- lymphoblastic lymphoma, childhood
- Pediatric Hematology-Oncology

ACADEMIC APPOINTMENTS

- Associate Prof-Univ Med Line, Pediatrics - Hematology & Oncology
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Member, Cancer Center, (2007- present)
- Myeloid Steering Committee, Children's Oncology Group, (2007- present)
- Director, Pediatric Oncology Experimental Therapeutics Investigators' Consortium [POETIC], (2019- present)

HONORS AND AWARDS

- Member, Alpha Omega Alpha (1990)
- New Approaches in Pediatric Myeloid Leukemia, V Foundation (10/09-09/12)
- Banking Acute Leukemia Specimens at Lucile Packard Children’s Hospital: Hyundai Infrastructure Grant, Hyundai Foundation (10/11-09/12)
- Molecular and Pharmacologic Correlates of Acute Myeloid Leukemia in Down Syndrome, NIH ROI subcontract from Wayne State University (01/09-04/16)

PROFESSIONAL EDUCATION

- Board Certification: Pediatric Hematology-Oncology, American Board of Pediatrics (2022)
- Medical Education: University of California at San Francisco School of Medicine (1989) CA
- Internship: UCSF Medical Center (1990) CA
- Residency: UCSF Medical Center (1992) CA
- Fellowship: Stanford University Medical Center (1995) CA
- MD, U.C., San Francisco , Medicine (1989)
- BA, U. C., Berkeley , Biochemistry (1985)

LINKS

- Research Gate: http://www.researchgate.net/profile/Norman_Lacayo/

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Pediatric Hematology/Oncology, Phase I drug studies for refractory and relapsed leukemia; genomic studies, biologic risk-stratification and treatment of acute myeloid leukemia; prediction or induction response and risk of relapse using phosphoproteomics in childhood AML; novel MRD techniques in childhood ALL.

CLINICAL TRIALS

- GD2 CAR T Cells in Diffuse Intrinsic Pontine Gliomas(DIPG) & Spinal Diffuse Midline Glioma(DMG), Recruiting
- Genome, Proteome and Tissue Microarray in Childhood Acute Leukemia, Recruiting
- Niclosamide in Pediatric Patients With Relapsed and Refractory AML, Recruiting
- Protocol for Collecting, Banking and Distributing Human Tissue Samples: St. Jude Children's Research Hospital Tissue Resources Core Facility, Recruiting
- Study of Talazoparib in Combination With Chemotherapy in Relapsed Pediatric AML to Determine Safety and Efficacy, Recruiting
- A Pharmacokinetic (PK) Study of Nilotinib in Pediatric Patients With Philadelphia Chromosome-positive (Ph+) Chronic Myelogenous Leukemia (CML) or Acute Lymphoblastic Leukemia (ALL), Not Recruiting
- A Study Evaluating the Safety, Tolerability, Pharmacokinetics and Preliminary Activity of Idasanutlin in Combination With Either Chemotherapy or Venetoclax in Treatment of Pediatric and Young Adult Participants With Relapsed/Refractory Acute Leukemias or Solid Tumors, Not Recruiting
- A Study of Lenalidomide in Pediatric Subjects With Relapsed or Refractory Acute Myeloid Leukemia, Not Recruiting
- A Study of Venetoclax in Combination With Navitoclax and Chemotherapy in Subjects With Relapsed/Refractory Acute Lymphoblastic Leukemia or Relapsed/Refractory Lymphoblastic Lymphoma, Not Recruiting
- A Study to Evaluate the Safety, Tolerability, Pharmacokinetics, Immunogenicity, and Preliminary Efficacy of Atezolizumab (Anti-Programmed Death-Ligand 1 [PD-L1] Antibody) in Pediatric and Young Adult Participants With Solid Tumors, Not Recruiting
- A Study to Test the Safety and Efficacy of the Drug Larotrectinib for the Treatment of Tumors With NTRK-fusion in Children, Not Recruiting
- A Trial of Epigenetic Priming in Patients With Newly Diagnosed Acute Myeloid Leukemia, Not Recruiting
- Carfilzomib in Combination With Cyclophosphamide and Etoposide for Children, Not Recruiting
- Dose Escalation Study of CLR 131 in Pediatric Relapsed/Refractory Malignant Tumors Including Neuroblastoma and Sarcomas, Not Recruiting
- Efficacy and Safety of Decitabine as Epigenetic Priming With Induction Chemotherapy in Pediatric Acute Myelogenous Leukemia (AML) Subjects, Not Recruiting
- Expanded Access Program for Revumenib, Not Recruiting
- Inotuzumab Ozogamicin in Treating Younger Patients With B-Lymphoblastic Lymphoma or Relapsed or Refractory CD22 Positive B Acute Lymphoblastic Leukemia, Not Recruiting
- Nivolumab in Combination With Chemo-Immunotherapy for the Treatment of Newly Diagnosed Primary Mediastinal B-Cell Lymphoma, Not Recruiting

- Panobinostat With Fludarabine and Cytarabine for Treatment of Children With Acute Myeloid Leukemia or Myelodysplastic Syndrome, Not Recruiting
- Response-Based Chemotherapy in Treating Newly Diagnosed Acute Myeloid Leukemia or Myelodysplastic Syndrome in Younger Patients With Down Syndrome, Not Recruiting
- Safety and Dose Finding Study of Neratinib in Children and Young Adults With Cancer That Has Returned or Not Responded to Treatment, Not Recruiting
- Study of CD19/CD22 Chimeric Antigen Receptor (CAR) T Cells in Children and Young Adults w/ Recurrent or Refractory B Cell Malignancies, Not Recruiting
- Study of Venetoclax in Combination With Chemotherapy in Pediatric Patients With Refractory or Relapsed Acute Myeloid Leukemia or Acute Leukemia of Ambiguous Lineage, Not Recruiting
- Total Therapy for Infants With Acute Lymphoblastic Leukemia (ALL) I, Not Recruiting
- Total Therapy XVII for Newly Diagnosed Patients With Acute Lymphoblastic Leukemia and Lymphoma, Not Recruiting

Publications

PUBLICATIONS

- **Tumor-induced dendritic cell deregulation perturbs T cell proliferation and predicts clinical outcome in acute lymphoblastic leukemia.** *Cell reports. Medicine*

  Kumar, A., Hamane, K., Duault, C., Lima-Junior, J. R., Jung, D. H., Qin, H., Salcido, S., Huang, M., Guo, X., Taghi Khani, A., Sanchez Ortiz, A., Ghoda, L., Marcucci, et al

  2026: 102945

- **Venetoclax in combination with cytarabine with or without idarubicin or azacitidine in children, adolescents, and young adults with relapsed or refractory acute myeloid leukaemia (VENAML): a multicentre, phase 1 expansion study.** *The Lancet. Haematology*

  Daniels, K. P., Pounds, S. B., Wu, H., Wang, L., Alexander, T. B., Budhraja, A., Wolf, J., Westover, T., Mead, P. E., Mehr, C. M., Gupta, S. D., Lacayo, N. J., Inaba, et al

  2026

- **Dendritic cell dysfunction predicts adverse prognosis in high-risk acute lymphoblastic leukemia**

  Kumar, A., Hamane, K., Duault, C., Lima-Junior, J., Jung, D., Qin, H., Salcido, S., Huang, M., Guo, X., Khani, A., Ortiz, A., Ghoda, L., Marcucci, et al

  AMER ASSOC CANCER RESEARCH.2026

- **Bortezomib and vorinostat in combination with mitoxantrone, dexamethasone, and pegasparaginase during induction and reinduction for infants with acute lymphoblastic leukaemia: a multicentre single-arm phase 1/2 study.** *The Lancet. Haematology*

  Gruber, T. A., Jeha, S., Deyell, R. J., Lewis, V., Chang, B. H., Lowe, E. J., Frediani, J., Vezina, C., Michon, B., Richards, M., Breese, E. H., Tran, T. H., Lacayo, et al

  2026

- **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

  2026

- **Pre-transplant CAR T-cell therapy is associated with inferior survival and increased non-relapse mortality in pediatric B-ALL: A single-center retrospective analysis**

  Chok, R., Huang, M., Aftandilian, C., Schultz, L., Shyr, D., Lacayo, N., Shah, A., Saab, R., Gruber, T., Mackall, C., Bertaina, A., Davis, K., Klein, et al

  ELSEVIER.2025: 6077-6078

- **Venetoclax in combination with cytarabine with or without idarubicin in children with relapsed or refractory acute myeloid leukemia: A multi-center phase II expansion study**

  Daniels, K., Pounds, S., Wu, H., Wang, L., Mehr, C., Alexander, T., Budhraja, A., Wolf, J., Westover, T., Mead, P., Lacayo, N., Pui, C., Opferman, et al

  ELSEVIER.2025: 649

- **Epigenetic priming improves survival for pediatric Acute Myeloid Leukemia: Results from the multicenter randomized AML16 trial**

  Gruber, T., Pounds, S., Lacayo, N., Heym, K., Henry, M., Degar, B., Schiff, D., Razzaqi, F., Frediani, J., Milanovich, S., McNeer, J., Wu, H., Patibandla, et al

  ELSEVIER.2025: 3446-3447

- **Tumor-induced dendritic cell dysfunction impairs T-cell proliferation and confers poor prognosis in high-risk acute lymphoblastic leukemia**

Kumar, A., Hamane, K., Duault, C., Lima-Junior, J., Jung, D., Qin, H., Salcido, S., Huang, M., Guo, X., Khani, A., Ortiz, A., Ghoda, L., Marcucci, et al
ELSEVIER.2025: 5138-5139

- **Targeting CDK9 inhibits the growth of KMT2A-rearranged infant leukemia and demonstrates synergy with menin inhibition.** *Blood neoplasia*
  Sharma, R., Zhang, C., Shah, R., Frigault, M. M., Johnson, A. J., Mangum, D. S., Maese, L. D., Lacayo, N. J., Narendran, A.
  2025; 2 (4): 100148

- **A Phase I Study of Carfilzomib with Cyclophosphamide and Etoposide in Relapsed and Refractory Leukemia and Solid Tumors.** *Cancers*
  Boklan, J., Langevin, A. M., Bielamowicz, K., Neville, K., Trippett, T., Brown, V., DuBois, S. G., Eshun, F., Gelfond, J., Zomet, A., Narendran, A., Lacayo, N. J.
  2025; 17 (17)

- **Pediatric Acute Lymphoblastic Leukemia, Version 2.2025, NCCN Clinical Practice Guidelines In Oncology.** *Journal of the National Comprehensive Cancer Network : JNCCN*
  Inaba, H., Teachey, D., Annesley, C., Batra, S., Beck, J., Colace, S., Cooper, S., Dallas, M., Oliveira, S. D., Kelly, K., Kitko, C., Kohorst, M., Kutny, et al
  2025; 23 (2): 41-62

- **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
  2025

- **Safety and Feasibility of Blinatumomab As Frontline Therapy for Pediatric Patients with B-Acute Lymphoblastic Leukemia and Lymphoma: St. Jude Total Therapy Study XVII**
  Duffy, C., Dang, E., Yinmei, Z., Bell, J., Bhakta, N., Henry, M., Heym, K., Jeha, S., Lacayo, N. J., Karol, S. E., Khaw, S., Ribeiro, R. C., Schiff, et al
  ELSEVIER.2024: 4208-4209

- **Pharmacogenomic Score Effectively Personalizes Treatment of Acute Myeloid Leukemia.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
  Marrero, R. J., Wu, H., Cao, X., Parcha, P. K., Elsayed, A. H., Inaba, H., Kuo, D. J., Degar, B. A., Heym, K., Taub, J. W., Lacayo, N., Pui, C., Ribeiro, et al
  2024

- **AML/T cell interactomics uncover correlates of patient outcomes and the key role of ICAM1 in T cell killing of AML.** *Leukemia*
  Sayitoglu, E. C., Luca, B. A., Boss, A. P., Thomas, B. C., Freeborn, R. A., Uyeda, M. J., Chen, P. P., Nakauchi, Y., Waichler, C., Lacayo, N., Bacchetta, R., Majeti, R., Gentles, et al
  2024

- **Pharmacogenomics, Race, and Treatment Outcome in Pediatric Acute Myeloid Leukemia.** *JAMA network open*
  Lamba, J. K., Marrero, R., Wu, H., Cao, X., Parcha, P. K., Karol, S. E., Inaba, H., Kuo, D. J., Degar, B. A., Heym, K., Taub, J. W., Lacayo, N. J., Pui, et al
  2024; 7 (5): e2411726

- **Case report: sub-clinical extramedullary B-ALL in the setting of relapse following targeted therapy.** *Frontiers in immunology*
  Johns, C., Erickson, C., Jacobs, A., Moon, J., Baggott, C., Dagher, R., Nadel, H., Balagtas, J., Aftandilian, C., Ramakrishna, S., Lacayo, N., Davis, K. L., Stieglitz, et al
  2024; 15: 1423487

- **Intensification of Therapy and Pharmacogenetic Personalization Mitigate Racial Disparities in Pediatric Acute Myeloid Leukemia Outcomes**
  Lamba, J. K., Marrero, R. J., Wu, H., Cao, X., Parcha, P., Karol, S. E., Inaba, H., Kuo, D., Degar, B., Heym, K., Taub, J., Lacayo, N. J., Pui, et al
  AMER SOC HEMATOLOGY.2023

- **Targeting CDK9 in KMT2A-Rearranged Infant Leukemia: Evidence for Activity and Drug Synergy with Enitociclib**
  Sharma, R., Frigault, M. M., Johnson, A. J., Izumi, R., Hamdy, A., Birkett, J., Stelte-Ludwig, B., Maese, L., Lacayo, N. J., Narendran, A.
  AMER SOC HEMATOLOGY.2023

- **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
  AMER SOC HEMATOLOGY.2023

- **Outcome of Infants Treated on Total Therapy for Infants with Acute Lymphoblastic Leukemia I: Results from a Non-Randomized Multi-Center Study**

Gruber, T. A., Huang, M., Jeha, S., Deyell, R. J., Lewis, V. A., Chang, B. H., Lowe, E. J., Frediani, J., Vezina, C., Michon, B., Gossai, N., Breese, E. H., Thai Hoa Tran, et al

AMER SOC HEMATOLOGY.2023

- **POE14-01: A PHASE I STUDY OF CARFILZOMIB IN COMBINATION WITH CYCLOPHOSPHAMIDE AND ETOPOSIDE FOR CHILDREN, ADOLESCENTS AND YOUNG ADULTS WITH RELAPSED/REFRACTORY LEUKEMIAS OR SOLID TUMORS**

  Boklan, J., Narendran, A., Bielamowicz, K., Trippett, T., Brown, V., Dubois, S., Eshun, F., Gelfond, J., Zomet, A., Lacayo, N., Langevin, A.

  WILEY.2023: S117-S118

- **A NOVEL ANTI-CANCER VACCINE APPROACH FOR THE EFFECTIVE TREATMENT OF REFRACTORY LEUKEMIA IN CHILDREN**

  Tran, S., Sipila, P., Zhang, C., Maese, L., Lacayo, N., Narendran, A.

  WILEY.2023: S145-S146

- **Epigenetic Profiling of PTPN11 Mutant JMML Hematopoietic Stem and Progenitor Cells Reveals an Aberrant Histone Landscape.** *Cancers*

  Sinha, R., Dvorak, M., Ganesan, A., Kalesinskas, L., Niemeyer, C. M., Flotho, C., Sakamoto, K. M., Lacayo, N., Patil, R. V., Perriman, R., Cepika, A. M., Liu, Y. L., Kuo, et al

  2023; 15 (21)

- **The Tomato Brown Rugose Fruit Virus Movement Protein Gene Is a Novel Microbial Source Tracking Marker.** *Applied and environmental microbiology*

  Natarajan, A., Fremin, B. J., Schmidtke, D. T., Wolfe, M. K., Zlitni, S., Graham, K. E., Brooks, E. F., Severyn, C. J., Sakamoto, K. M., Lacayo, N. J., Kuersten, S., Koble, J., Caves, et al

  2023: e0058323

- **Intrinsic suppression of type I interferon production underlies the therapeutic efficacy of IL-15-producing natural killer cells in B-cell acute lymphoblastic leukemia.** *Journal for immunotherapy of cancer*

  Kumar, A., Taghi Khani, A., Duault, C., Aramburo, S., Sanchez Ortiz, A., Lee, S. J., Chan, A., McDonald, T., Huang, M., Lacayo, N. J., Sakamoto, K. M., Yu, J., Hurtz, et al

  2023; 11 (5)

- **Tomato brown rugose fruit virus Mo gene is a novel microbial source tracking marker.** *bioRxiv : the preprint server for biology*

  Natarajan, A., Fremin, B. J., Schmidtke, D. T., Wolfe, M. K., Zlitni, S., Graham, K. E., Brooks, E. F., Severyn, C. J., Sakamoto, K. M., Lacayo, N. J., Kuersten, S., Koble, J., Caves, et al

  2023

- **Menin inhibitors as targeted therapeutics in KMT2a rearranged infant leukemia and the identification of effective treatment combinations.**

  Sharma, R., Zhang, C., Maese, L., Lacayo, N., Narendran, A.

  LIPPINCOTT WILLIAMS & WILKINS.2022

- **CytofIn enables integrated analysis of public mass cytometry datasets using generalized anchors.** *Nature communications*

  Lo, Y., Keyes, T. J., Jager, A., Sarno, J., Domizi, P., Majeti, R., Sakamoto, K. M., Lacayo, N., Mullighan, C. G., Waters, J., Sahaf, B., Bendall, S. C., Davis, et al

  2022; 13 (1): 934

- **GPC2-CAR T cells tuned for low antigen density mediate potent activity against neuroblastoma without toxicity** *CANCER CELL*

  Heitzeneder, S., Bosse, K. R., Zhu, Z., Zhelev, D., Majzner, R. G., Radosevich, M. T., Dhingra, S., Sotillo, E., Buongervino, S., Pascual-Pasto, G., Garrigan, E., Xu, P., Huang, et al

  2022; 40 (1): 53-+

- **GPC2-CAR Tcells tuned for low antigen density mediate potent activity against neuroblastoma without toxicity.** *Cancer cell*

  Heitzeneder, S., Bosse, K. R., Zhu, Z., Zhelev, D., Majzner, R. G., Radosevich, M. T., Dhingra, S., Sotillo, E., Buongervino, S., Pascual-Pasto, G., Garrigan, E., Xu, P., Huang, et al

  1800

- **Comparison of the Transcriptomic Signatures in Pediatric and Adult CML.** *Cancers*

  Youn, M., Smith, S. M., Lee, A. G., Chae, H., Spiteri, E., Erdmann, J., Galperin, I., Jones, L. M., Donato, M., Abidi, P., Bittencourt, H., Lacayo, N., Dahl, et al

  1800; 13 (24)

- **Identification and in vitro validation of neoantigens for immune activation against high-risk pediatric leukemia cells.** *Human vaccines & immunotherapeutics*

  Thakur, S., Jain, M., Zhang, C., Major, C., Bielamowicz, K. J., Lacayo, N. J., Vaske, O., Lewis, V., Murguia-Favela, L., Narendran, A.

2021: 1-5

- **A comprehensive circulating tumor DNA assay for detection of translocation and copy number changes in pediatric sarcomas.** *Molecular cancer therapeutics*
  Shah, A. T., Azad, T. D., Breese, M. R., Chabon, J. J., Hamilton, E. G., Straessler, K., Kurtz, D. M., Leung, S. G., Spillinger, A., Liu, H., Behroozfard, I. H., Wittber, F. M., Hazard, et al
  2021

- **Activated Natural Killer Cells Predict Poor Clinical Prognosis in High-risk B- and T- cell Acute Lymphoblastic Leukemia.** *Blood*
  Duault, C., Kumar, A., Taghi Khani, A., Lee, S. J., Yang, L., Huang, M., Hurtz, C., Manning, B., Ghoda, L. Y., McDonald, T., Lacayo, N. J., Sakamoto, K. M., Carroll, et al
  2021

- **Engineered Type 1 Regulatory T Cells Have a Cytotoxic Profile and Kill Pediatric Acute Myeloid Leukemia Cells**
  Sayitoglu, E., Uyeda, M., Liu, J. M., Cieniewicz, B., Chen, P., Lacayo, N., Cepika, A., Roncarolo, M.
  CELL PRESS.2021: 317

- **Venetoclax and Navitoclax in Combination with Chemotherapy in Patients with Relapsed or Refractory Acute Lymphoblastic Leukemia and Lymphoblastic Lymphoma.** *Cancer discovery*
  Pullarkat, V. A., Lacayo, N. J., Jabbour, E., Rubnitz, J. E., Bajel, A., Laetsch, T. W., Leonard, J., Colace, S. I., Khaw, S. L., Fleming, S. A., Mattison, R. J., Norris, R., Opferman, et al
  2021

- **Safety, pharmacokinetics, and pharmacodynamics of panobinostat in children, adolescents, and young adults with relapsed acute myeloid leukemia.** *Cancer*
  Karol, S. E., Cooper, T. M., Mead, P. E., Crews, K. R., Panetta, J. C., Alexander, T. B., Taub, J. W., Lacayo, N. J., Heym, K. M., Kuo, D. J., Schiff, D. E., Bhojwani, D., Ge, et al
  2020

- **Extracellular Vesicle and Particle Biomarkers Define Multiple Human Cancers.** *Cell*
  Hoshino, A., Kim, H. S., Bojmar, L., Gyan, K. E., Cioffi, M., Hernandez, J., Zambirinis, C. P., Rodrigues, G., Molina, H., Heissel, S., Mark, M. T., Steiner, L., Benito-Martin, et al
  2020

- **Integrative analysis of whole-genome and RNA sequencing in high-risk pediatric malignancies**
  Shah, A. T., Breese, M. R., Lee, A. G., Martell, H. J., Tanasa, B., Leung, S. G., Spillingeer, A., Liu, H., Behroozfard, I., Phuong Dinh, Hazard, F. K., Cho, S., Rangaswami, A., et al
  AMER ASSOC CANCER RESEARCH.2020: 90–91

- **Comparative gene expression analysis for identification and prioritization of therapeutic targets in a cohort of childhood cancers**
  Sanders, L. M., Lyle, A., Beale, H. C., Kephart, E., Learned, K., Peralez, J., Lacayo, N., Rangaswami, A., Spunt, S. L., Bjork, I., Haussler, D., Salama, S. R., Vaske, et al
  AMER ASSOC CANCER RESEARCH.2020: 66

- **Delayed cancer diagnoses and high mortality in children during the COVID-19 pandemic.** *Pediatric blood & cancer*
  Ding, Y., Ramakrishna, S., Long, A. H., Phillips, C. A., Montiel-Esparza, R., Diorio, C. J., Bailey, L. C., Maude, S. L., Aplenc, R., Batra, V., Reilly, A. F., Rheingold, S. R., Lacayo, et al
  2020: e28427

- **Metabolomics in acute myeloid leukemia.** *Molecular genetics and metabolism*
  Wojcicki, A. V., Kasowski, M. M., Sakamoto, K. M., Lacayo, N.
  2020

- **Venetoclax in combination with cytarabine with or without idarubicin in children with relapsed or refractory acute myeloid leukaemia: a phase 1, dose-escalation study.** *The Lancet. Oncology*
  Karol, S. E., Alexander, T. B., Budhraja, A., Pounds, S. B., Canavera, K., Wang, L., Wolf, J., Klco, J. M., Mead, P. E., Das Gupta, S., Kim, S. Y., Salem, A. H., Palenski, et al
  2020

- **Repurposing Drugs for Acute Myeloid Leukemia: A Worthy Cause or a Futile Pursuit?** *Cancers*
  Wojcicki, A. V., Kadapakkam, M., Frymoyer, A., Lacayo, N., Chae, H., Sakamoto, K. M.
  2020; 12 (2)

- **EPIGENETIC TARGETING OF TERT-ASSOCIATED GENE EXPRESSION SIGNATURE IN HUMAN NEUROBLASTOMA WITH TERT OVEREXPRESSION.** *Cancer research*

  Huang, M. n., Zeki, J. n., Sumarsono, N. n., Coles, G. L., Taylor, J. S., Danzer, E. n., Bruzoni, M. n., Hazard, F. K., Lacayo, N. J., Sakamoto, K. M., Dunn, J. C., Spunt, S. L., Chiu, et al

  2020

- **Pediatric Acute Lymphoblastic Leukemia, Version 2.2020** *JOURNAL OF THE NATIONAL COMPREHENSIVE CANCER NETWORK*

  Brown, P., Inaba, H., Annesley, C., Beck, J., Colace, S., Dallas, M., DeSantes, K., Kelly, K., Kitko, C., Lacayo, N., Larrier, N., Maese, L., Mahadeo, et al

  2020; 18 (1): 81–112

- **Engineered type 1 regulatory T cells designed for clinical use kill primary pediatric acute myeloid leukemia cells** *Haematologica*

  Cieniewicz, B., Uyeda, M. J., Chen, P. P., Sayitoglu, E. C., Liu, J. M., Andolfi, G., Greenthal, K., Bertaina, A., Gregori, S., Bacchetta, R., Lacayo, N. J., Cepika, A., Roncarolo, et al

  2020

- **RSK inhibitor BI-D1870 inhibits acute myeloid leukemia cell proliferation by targeting mitotic exit.** *Oncotarget*

  Chae, H. D., Dutta, R. n., Tiu, B. n., Hoff, F. W., Accordi, B. n., Serafin, V. n., Youn, M. n., Huang, M. n., Sumarsono, N. n., Davis, K. L., Lacayo, N. J., Pigazzi, M. n., Horton, et al

  2020; 11 (25): 2387–2403

- **RSK inhibitor BI-D1870 inhibits acute myeloid leukemia cell proliferation by targeting mitotic exit.** *Oncotarget*

  Chae, H. D., Dutta, R. n., Tiu, B. n., Hoff, F. W., Accordi, B. n., Serafin, V. n., Youn, M. n., Huang, M. n., Sumarsono, N. n., Davis, K. L., Lacayo, N. J., Pigazzi, M. n., Horton, et al

  2020; 11 (25): 2387–2403

- **Establishing a Novel in Vitro Informed Precision Clinical Trial Pathway for Refractory Pediatric Leukemia**

  Zhang, C., Sharma, R., Satbir, T., Cheney, A., Vaske, O., Sanders, L., Boklan, J., Lewis, V. A., Anderson, R., Kovalchuk, O., Lacayo, N. J., Narendran, A., Bielamowicz, et al

  AMER SOC HEMATOLOGY.2019

- **Safety and Efficacy of Venetoclax in Combination with Navitoclax in Adult and Pediatric Relapsed/Refractory Acute Lymphoblastic Leukemia and Lymphoblastic Lymphoma**

  Lacayo, N. J., Pullarkat, V. A., Stock, W., Jabbour, E., Bajel, A., Rubnitz, J., Leonard, J., Mullighan, C. G., Khaw, S., Vear, S. I., Opferman, J. T., Salem, A., Schmidt, et al

  AMER SOC HEMATOLOGY.2019

- **Venetoclax in Combination with High-Dose Chemotherapy Is Active and Well-Tolerated in Children with Relapsed or Refractory Acute Myeloid Leukemia**

  Karol, S. E., Alexander, T., Budraja, A., Pounds, S., Canavera, K. E., Wang, L., Wolf, J., Klco, J. M., Salem, A., Palenski, T., Lacayo, N. J., Pui, C., Opferman, et al

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