

# Stanford

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## 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**

725 Welch Rd

MC 5913

Palo Alto, CA 94304

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### Bio

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### 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 Professor - University Medical 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/](http://www.researchgate.net/profile/Norman_Lacayo/)

## Research & Scholarship

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### 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

- Niclosamide in Pediatric Patients With Relapsed and Refractory AML, Recruiting
- Phase I Dose Escalation Study of CD19/CD22 Chimeric Antigen Receptor (CAR) T Cells in Children and Young Adults With Recurrent or Refractory B Cell Malignancies, 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 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 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
- Dose Escalation Study of CLR 131 in Children, Adolescents, and Young Adults With Relapsed or Refractory Malignant Tumors Including But Not Limited to Neuroblastoma, Rhabdomyosarcoma, Ewings Sarcoma, and Osteosarcoma, Not Recruiting
- Efficacy and Safety of Decitabine as Epigenetic Priming With Induction Chemotherapy in Pediatric Acute Myelogenous Leukemia (AML) Subjects, Not Recruiting
- Genome, Proteome and Tissue Microarray in Childhood Acute Leukemia, 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 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

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### PUBLICATIONS

- **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 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  
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., Spillinger, 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., Budhraj, 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
- **Genomic stability at the coding regions of the multidrug transporter gene ABCB1: insights into the development of alternative drug resistance mechanisms in human leukemia cells.** *Cancer drug resistance (Alhambra, Calif.)*  
Chen, K. G., Duran, G. E., Mogul, M. J., Wang, Y. C., Ross, K. L., Jaffrezou, J., Huff, L. M., Johnson, K. R., Fojo, T., Lacayo, N. J., Sikic, B. I.  
2020; 3: 959-979
- **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
- **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., Budhraj, 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  
AMER SOC HEMATOLOGY.2019

- **Comparative Tumor RNA Sequencing Analysis for Difficult-to-Treat Pediatric and Young Adult Patients With Cancer.** *JAMA network open*  
Vaske, O. M., Bjork, I., Salama, S. R., Beale, H., Tayi Shah, A., Sanders, L., Pfeil, J., Lam, D. L., Learned, K., Durbin, A., Kephart, E. T., Currie, R., Newton, et al  
2019; 2 (10): e1913968
- **Combination BCL-2 Inhibitor Therapy with Venetoclax and Navitoclax in Patients with Relapsed/Refractory Acute Lymphoblastic Leukemia and Lymphoblastic Lymphoma**  
Jabbour, E., Mullighan, C. G., Pullarkat, V. A., Lacayo, N. J., Bajel, A., Rubnitz, J., Leonard, J., Khaw, S., Vear, S. I., Alexander, T., Norris, R., Salem, A., Schmidt, et al  
CIG MEDIA GROUP, LP.2019: S184–S185
- **Integrative analysis of whole-genome and RNA sequencing in high-risk pediatric malignancies**  
Breese, M. R., Shah, A. T., Lee, A. G., Tanasa, B., Leung, S. G., Spillinger, A., Liu, H., Behroozfard, I., Phuong Dinh, Hazard, F. K., Rangaswami, A., Spunt, S. L., Lacayo, N. J., et al  
AMER ASSOC CANCER RESEARCH.2019
- **Clofarabine Can Replace Anthracyclines and Etoposide in Remission Induction Therapy for Childhood Acute Myeloid Leukemia: The AML08 Multicenter, Randomized Phase III Trial.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*  
Rubnitz, J. E., Lacayo, N. J., Inaba, H., Heym, K., Ribeiro, R. C., Taub, J., McNeer, J., Degar, B., Schiff, D., Yeoh, A. E., Coustan-Smith, E., Wang, L., Triplett, et al  
2019: JCO1900327
- **Safety and activity of venetoclax in combination with high-dose cytarabine in children with relapsed or refractory acute myeloid leukemia.**  
Karol, S. E., Alexander, T., Das Gupta, S., Pounds, S. B., Canavera, K., Klco, J. M., Lacayo, N., Pui, C., Opferman, J. T., Rubnitz, J. E.  
AMER SOC CLINICAL ONCOLOGY.2019
- **A phase II clinical trial of adoptive transfer of haploidentical natural killer cells for consolidation therapy of pediatric acute myeloid leukemia.** *Journal for immunotherapy of cancer*  
Nguyen, R., Wu, H., Pounds, S., Inaba, H., Ribeiro, R. C., Cullins, D., Rooney, B., Bell, T., Lacayo, N. J., Heym, K., Degar, B., Schiff, D., Janssen, et al  
2019; 7 (1): 81
- **Comparative RNA-seq analysis aids in diagnosis of a rare pediatric tumor.** *Cold Spring Harbor molecular case studies*  
Sanders, L. M., Rangaswami, A. n., Bjork, I. n., Lam, D. L., Beale, H. C., Kephart, E. T., Durbin, A. n., Learned, K. n., Currie, R. n., Lyle, A. G., Pfeil, J. n., Shah, A. T., Lee, et al  
2019; 5 (5)
- **Tracking Cell Transplants in Femoral Osteonecrosis with Magnetic Resonance Imaging: A Proof-of-Concept Study in Patients** *CLINICAL CANCER RESEARCH*  
Theruvath, A. J., Nejadnik, H., Muehe, A. M., Gassert, F., Lacayo, N. J., Goodman, S. B., Daldrup-Link, H. E.  
2018; 24 (24): 6223–29
- **Comparison of the Transcriptomic Signature of Pediatric Vs. Adult CML and Normal Bone Marrow Stem Cells**  
Chae, H., Murphy, L. C., Donato, M., Lee, A. G., Sweet-Cordero, E., Abidi, P., Bittencourt, H., Lacayo, N. J., Dahl, G., Aftandilian, C., Davis, K. L., Huang, M., Sumarsono, et al  
AMER SOC HEMATOLOGY.2018
- **Venetoclax and Navitoclax in Patients with Relapsed or Refractory Acute Lymphoblastic Leukemia and Lymphoblastic Lymphoma**  
Alexander, T., Lacayo, N. J., Pullarkat, V. A., Jabbour, E. J., Khaw, S., Mullighan, C. G., Bajel, A., Leonard, J., Norris, R., Rubnitz, J., Vear, S. I., Schmidt, M., Tong, et al  
AMER SOC HEMATOLOGY.2018
- **Tracking Cell Transplants in Femoral Osteonecrosis with Magnetic Resonance Imaging: A Proof of Concept Study in Patients.** *Clinical cancer research : an official journal of the American Association for Cancer Research*  
Theruvath, A. J., Nejadnik, H., Muehe, A. M., Gassert, F., Lacayo, N. J., Goodman, S. B., Daldrup-Link, H. E.  
2018
- **Safety and Efficacy of the BCL Inhibitors Venetoclax and Navitoclax in Combination with Chemotherapy in Patients with Relapsed/Refractory Acute Lymphoblastic Leukemia and Lymphoblastic Lymphoma**  
Hantel, A., Wynne, J., Lacayo, N., Khaw, S., Rubnitz, J., Mullighan, C., Schmidt, M., Zhou, Y., Ross, J. A., Rosenwinkel, L., Kim, S., Jabbour, E., Alexander, et al  
CIG MEDIA GROUP, LP.2018: S184–S185
- **Open-label, dose-escalation, phase I study of venetoclax in combination with navitoclax and chemotherapy in patients with relapsed acute lymphoblastic leukemia.**

- Alexander, T., Khaw, S., Rubnitz, J. E., Vear, S. I., Lacayo, N., Schmidt, M., Tong, B., Rosenwinkel, L., Bensman, L., Verdugo, M., Kim, S., Jabbour, E., Stock, et al  
AMER SOC CLINICAL ONCOLOGY.2018
- **Single-cell developmental classification of B cell precursor acute lymphoblastic leukemia at diagnosis reveals predictors of relapse.** *Nature medicine*  
Good, Z., Sarno, J., Jager, A., Samusik, N., Aghaeepour, N., Simonds, E. F., White, L., Lacayo, N. J., Fantl, W. J., Fazio, G., Gaipa, G., Biondi, A., Tibshirani, et al  
2018; 24 (4): 474–83
  - **Single-cell developmental classification of B cell precursor acute lymphoblastic leukemia at diagnosis reveals predictors of relapse** *NATURE MEDICINE*  
Good, Z., Sarno, J., Jager, A., Samusik, N., Aghaeepour, N., Simonds, E. F., White, L., Lacayo, N. J., Fantl, W. J., Fazio, G., Gaipa, G., Biondi, A., Tibshirani, et al  
2018; 24 (4): 474+
  - **The Significance of Dim Cytoplasmic CD3 Expression in Acute Myeloid Leukemia: A Long-Term Retrospective Study Identifies an Association with Acute Promyelocytic Leukemia with FLT3-ITD Mutations**  
Kumar, J., Nagy, A., Lacayo, N., Gotlib, J., Zehnder, J. L., Ohgami, R.  
NATURE PUBLISHING GROUP.2018: 529
  - **The Significance of Dim Cytoplasmic CD3 Expression in Acute Myeloid Leukemia: A Long-Term Retrospective Study Identifies an Association with Acute Promyelocytic Leukemia with FLT3-ITD Mutations**  
Kumar, J., Nagy, A., Lacayo, N., Gotlib, J., Zehnder, J. L., Ohgami, R.  
NATURE PUBLISHING GROUP.2018: 529
  - **Nicosamide suppresses acute myeloid leukemia cell proliferation through inhibition of CREB-dependent signaling pathways** *ONCOTARGET*  
Chae, H., Cox, N., Dahl, G. V., Lacayo, N. J., Davis, K. L., Capolicchio, S., Smith, M., Sakamoto, K. M.  
2018; 9 (4): 4301–17
  - **Improved outcomes for myeloid leukemia of Down syndrome: a report from the Children's Oncology Group AAML0431 trial.** *Blood*  
Taub, J. W., Berman, J. N., Hitzler, J. K., Sorrell, A. D., Lacayo, N. J., Mast, K., Head, D., Raimondi, S., Hirsch, B., Ge, Y., Gerbing, R. B., Wang, Y., Alonzo, et al  
2017
  - **The Significance of CD56 Expression and the RAM Immunophenotype, a Recurrent Immunophenotype Seen in Children, in Adult Acute Myeloid Leukemia**  
Lazzareschi, D., Cherry, A., Zehnder, J., Gotlib, J., Arber, D. A., Lacayo, N., Ohgami, R.  
NATURE PUBLISHING GROUP.2017: 358A–359A
  - **The Significance of Morphologic Dysplasia in 432 Cases of Acute Lymphoblastic Leukemia and Acute Leukemia of Ambiguous Lineage: Correlation with Cytogenetic, Immunophenotypic, and Molecular Findings**  
Segal, J., Dahl, G., Lacayo, N., Gotlib, J., Ohgami, R.  
NATURE PUBLISHING GROUP.2017: 376A
  - **A Detailed Multi parameter Flow Cytometry Study of 365 Cases of B-Lymphoblastic Leukemia with Subtyping According to the 2016 WHO: A Single Institutional Study**  
Segal, J., Lacayo, N., Gotlib, J., Ohgami, R.  
NATURE PUBLISHING GROUP.2017: 376A
  - **Detailed Multiparameter Flow Cytometry Study of 365 Cases of B-Lymphoblastic Leukemia with Subtyping According to the 2016 WHO: A Single Institutional Study**  
Segal, J., Lacayo, N., Gotlib, J., Ohgami, R.  
NATURE PUBLISHING GROUP.2017: 376A
  - **The Significance of Morphologic Dysplasia in 432 Cases of Acute Lymphoblastic Leukemia and Acute Leukemia of Ambiguous Lineage: Correlation with Cytogenetic, Immunophenotypic, and Molecular Findings**  
Segal, J., Dahl, G., Lacayo, N., Gotlib, J., Ohgami, R.  
NATURE PUBLISHING GROUP.2017: 376A
  - **The Significance of CD56 Expression and the RAM Immunophenotype, a Recurrent Immunophenotype Seen in Children, in Adult Acute Myeloid Leukemia**  
Lazzareschi, D., Cherry, A., Zehnder, J., Gotlib, J., Arber, D. A., Lacayo, N., Ohgami, R.  
NATURE PUBLISHING GROUP.2017: 358A–359A
  - **Phase I Study of Selinexor, a Selective Inhibitor of Nuclear Export, in Combination With Fludarabine and Cytarabine, in Pediatric Relapsed or Refractory Acute Leukemia** *JOURNAL OF CLINICAL ONCOLOGY*

- Alexander, T. B., Lacayo, N. J., Choi, J. K., Ribeiro, R. C., Pui, C., Rubnitz, J. E.  
2016; 34 (34): 4094-?
- **Small molecule inhibition of cAMP response element binding protein in human acute myeloid leukemia cells.** *Leukemia*  
Mitton, B., Chae, H., Hsu, K., Dutta, R., Aldana-Masangkay, G., FERRARI, R., Davis, K., Tiu, B. C., Kaul, A., Lacayo, N., Dahl, G., Xie, F., Li, et al  
2016
  - **Replication factor C3 is a CREB target gene that regulates cell cycle progression through the modulation of chromatin loading of PCNA** *LEUKEMIA*  
Chae, H., Mitton, B., Lacayo, N. J., Sakamoto, K. M.  
2015; 29 (6): 1379-1389
  - **Improvement in Treatment Outcome and Identification of a New Prognostic Parameter in Down Syndrome Acute Myeloid Leukemia (DS-AML): Results of the Children's Oncology Group (COG) Phase III AAML0431 Trial**  
Taub, J. W., Berman, J. N., Hitzler, J. K., Sorrell, A. D., Lacayo, N. J., Mast, K., Head, D. R., Raimondi, S. C., Hirsch, B. A., Gerbing, R. B., Alonzo, T. A., Campana, D., Coustan-Smith, et al  
AMER SOC HEMATOLOGY.2014
  - **Altered resting state functional connectivity in young survivors of acute lymphoblastic leukemia.** *Pediatric blood & cancer*  
Kesler, S. R., Gugel, M., Pritchard-Berman, M., Lee, C., Kutner, E., Hosseini, S. M., Dahl, G., Lacayo, N.  
2014; 61 (7): 1295-1299
  - **Development and validation of a single-cell network profiling assay-based classifier to predict response to induction therapy in paediatric patients with de novo acute myeloid leukaemia: a report from the Children's Oncology Group** *BRITISH JOURNAL OF HAEMATOLOGY*  
Lacayo, N. J., Alonzo, T. A., Gayko, U., Rosen, D. B., Westfall, M., Purvis, N., Putta, S., Louie, B., Hackett, J., Cohen, A. C., Cesano, A., Gerbing, R., Ravindranath, et al  
2013; 162 (2): 250-262
  - **Prognostic features in acute megakaryoblastic leukemia in children without Down syndrome: a report from the AML02 multicenter trial and the Children's Oncology Group Study POG 9421** *LEUKEMIA*  
O'Brien, M. M., Cao, X., Pounds, S., Dahl, G. V., Raimondi, S. C., Lacayo, N. J., Taub, J., Chang, M., Weinstein, H. J., Ravindranath, Y., Inaba, H., Campana, D., Pui, et al  
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