

Stacie N. Woolard, PhD, SCYM^{(ASCP)CM} Candidate Statement – Translational and Clinical Councilor, ISAC

I am honored to be considered for the role of Translational and Clinical Councilor for the International Society for Advancement of Cytometry (ISAC). My career as a flow cytometrist has provided a unique opportunity to collaborate closely with both researchers and clinicians, enabling me to advance cytometry across the continuum from discovery to clinical application.

In my current role as a clinical cytometrist, I partner with leadership in the development, validation and clinical implementation of advanced measurable residual disease (MRD) assays in pediatric acute leukemia. This includes the successful validation of a 39-color spectral pediatric T-ALL MRD assay and ongoing validation of a two-tube, 28-color spectral pediatric B-ALL MRD assay. These efforts required comprehensive analytical validation, inter-platform method comparison and integration into clinical workflows under CLIA/CAP and regulatory oversight. In addition, I have led training initiatives for hematopathologists and laboratory staff in high-dimensional data analysis, ensuring that technological advancements are not only implemented but also interpreted accurately and consistently.

My professional trajectory from postdoctoral research in graft-versus-host disease to leadership within a high-throughput shared resource laboratory and now into clinical cytometry has provided a comprehensive perspective on the full translational pipeline. Managing large-scale cytometry operations and supporting diverse research programs reinforced the importance of standardization, reproducibility and education as prerequisites for successful clinical adoption. This foundation continues to inform my approach to clinical assay development and implementation.

My commitment to ISAC's mission to advance cytometry through innovation, collaboration and education is reflected in my active service within the society. Currently, I contribute to the Shared Resource Laboratory Committee, chair the SRL Outreach subcommittee and participate as a core member in both the CYTO Women's Task Force and Governance Committee. Through these roles, I have prioritized dissemination of technical knowledge, community engagement and equitable access to cytometry resources. Beyond ISAC, my leadership in the International Clinical Cytometry Society (ICCS) and presidency of the Southeast Flow Cytometry Interest Group (SEFCIG) regional organizations further reflect my dedication to strengthening the global cytometry community and addressing disparities in access to education and technology.

ISAC's strategic priorities strongly align with my professional focus. I am particularly committed to:

- Advancing clinical translation of emerging cytometric technologies, ensuring that innovations such as spectral cytometry are rigorously validated and meaningfully integrated into patient care.
- Promoting global accessibility and education, especially for institutions with limited resources, to support ISAC's vision of an inclusive and connected cytometry community.
- Strengthening standardization and data rigor, including harmonization of analytical approaches and validation frameworks to support reproducibility and clinical confidence.
- Encouraging interdisciplinary collaboration, bridging research, shared resources and clinical laboratories to accelerate the translation of discovery into practice.

As a certified Specialist in Cytometry (SCYM^{(ASCP)CM}), my work is grounded in regulatory consistency, quality assurance and continuous professional development. I am deeply committed to ensuring that advancements in cytometry are translated responsibly, equitably and with measurable benefit to patient outcomes.

If selected, I will work to further ISAC's strategic vision by strengthening the connection between innovation and clinical application, amplifying educational outreach and supporting a globally engaged cytometry community.

Stacie N. Woolard, PhD, SCYM (ASCP)^{CM}

St. Jude Children's Research Hospital
262 Danny Thomas Place
Mail Stop 250
Memphis, TN 38105
(901) 595-2888
stacie.woolard@stjude.org

1. Current Position at St. Jude Children's Research Hospital

Scientist, Clinical Cytometrist April 2024 - Present
Department of Pathology
St. Jude Children's Research Hospital
Memphis, TN 38105

2. Education and Training (list all degrees awarded, and training programs completed)

B.S. in Biology, Emory & Henry College, Emory, VA 2004

Ph.D. in Biomedical Sciences, Quillen College of Medicine, East Tennessee State University, Johnson City, Tennessee 2010

Post-Doctoral Fellowship, St. Jude Children's Research Hospital, Memphis, TN 2010

FloCyt Regional Training Program, Certificate of Achievement Comprehensive Flow Course, Cincinnati, OH 11/2010

Stanford PhosphoFlow/Immune Monitoring Course, Palo Alto, CA 04/2011

35th Annual Course in Cytometry, Brunswick, MA 06/2012

BD Biosciences BD Fusion Training, San Jose CA 11/2014

3. Key Accomplishments Summary

Flow Cytometry Clinical Scientist

As a Clinical Cytometrist, I have collaborated with leadership in the development and validation of high-complexity clinical assays, including the successful validation and clinical implementation of a 39-color spectral pediatric T-ALL MRD assay and the ongoing validation of a pediatric two-tube, 28-color spectral B-ALL MRD assay designed to enhance analytical sensitivity and broaden immunophenotypic resolution. I provide advanced technical expertise in clinical flow cytometry, performing complex data analysis, interpretation, and reporting in strict adherence to established SOPs and clinical laboratory regulations. I ensure data integrity through meticulous management of patient information within the LIS while maintaining rigorous Quality Control and Quality Assurance standards. My contributions have strengthened laboratory operations through SOP development and revision, workflow optimization, and proactive troubleshooting of instrumentation, panel design, and analytical processes. I maintain full regulatory compliance with cGMP and GLP standards and accreditation requirements, including

State of Tennessee, CAP, FACT, and FDA oversight. Across all phases of testing from assay development and validation to clinical reporting and audit preparedness I demonstrate accountability, operational ownership, and a commitment to quality, while actively advancing the field through invited presentations, publications, and professional engagement within the cytometry community.

Assistant Director/Scientific Manager

Experienced cytometrist with a strong background in viral immunology, transitioning from bench research to flow cytometry expertise. Began career at St. Jude Children's Research Hospital as a postdoctoral fellow studying Graft-vs-Host Disease (GVHD) and progressed to Research Operations Manager of the Flow Cytometry and Cell Sorting Shared Resource (FCSSR). Currently manage a team of nine staff and oversee operations of 20 advanced cytometers, including high-parameter analyzers and sorters.

Proficient in designing and executing complex flow cytometry experiments, including multi-parameter cell characterization, rare cell isolation, single-cell sorting, and preparation for specialized assays like FISH. Skilled in experimental design consultation, data analysis, and protocol optimization, supporting over 90 independent research labs.

Instrumental in developing and leading the institution's flow cytometry training program, which has trained over 500 individuals. Dedicated to advancing research through expert-level cytometry services and fostering collaboration within the scientific community.

To remain at the forefront of the cytometry field, I continuously enhance my education and training in advanced cytometry by attending continuing education seminars and conferences to explore emerging technologies. I hold the American Society of Clinical Pathology certification as a licensed cytometry specialist, SCYM(ASCP)CM.

4. Professional Career

Scientist, St. Jude Children's Research Hospital, Memphis, TN
April 2024 - present

Research Operations Manager, St. Jude Children's Research Hospital, Memphis, TN
Jun. 2021 – April 2024

Scientific Manager/Assistant Director, St. Jude Children's Research Hospital, Memphis, TN
Nov. 2019 – June 2021

Senior Flow Cytometry Specialist, St. Jude Children's Research Hospital, Memphis, TN
Sept. 2017 – Nov. 2019

Flow Cytometry Specialist, St. Jude Children's Research Hospital, Memphis, TN
Dec. 2013 – Sept. 2017

Senior Research Technologist, St. Jude Children's Research Hospital, Memphis, TN

Sept. 2010 – Dec. 2013

Research Scholar, St. Jude Children's Research Hospital, Memphis, TN

Dec. 2009 – Mar. 2010

5. Certifications and Licensure

Specialist in Cytometry, SCYM (ASCP) 2023-present

6. Professional Memberships

International Society for Advancement of Cytometry 2010-present
Core member: CYTO Women's Task Force 2022-present

Core member: SRL Task Force 2022-present
Subcommittee: SRL Outreach, Chair 2023-present

Core member: Governance Committee 2022-present

International Clinical Cytometer Society (ICCS) 2024-present
Education committee member: 2024-present
Education Newsletter subcommittee member: 2024-present

Community & Growth committee member: 2024-present
Community & Growth committee Vice-Chair: 2026-present

Southeastern Flow Cytometry Interest Group 2010-present
Vice-President 2022- 2024
President 2024-2026
Communications chair 2026-present

Association of Bimolecular Resources Facilities 2023-present

Southeastern Association of Shared Resources 2023-2025
Board of Executives; Secretary 2023- 2024
Board of Executives; Treasurer-elect 2023- 2025

7. Honors and Awards

East Tennessee State University School of Graduate Studies and Graduate Council
Outstanding Dissertation and Thesis of the Year 2010

Invitation to St. Jude Children's Research Hospital National Graduate Student
Symposium 2009

2nd place Biomedical Science Division III Oral Presentation, Appalachian Research
Forum 2009

East Tennessee State University Graduate Council Research Grant 2009

2nd place Biomedical Science Division II Poster Presentation, Appalachian Research Forum 2008

3rd place Post-Baccalaureate Oral Presentation, Appalachian Research Forum 2008

East Tennessee State University Graduate Council Research Grant 2008

1st place Post-Baccalaureate Oral Presentation, Appalachian Research Forum 2007

1st place Research Poster, Molecular Medicine Conference, Bench to Bedside Research Symposium 2006

8. Formal Education/Teaching Activities

Adjunct faculty; Southwest Tennessee Community College, Memphis, TN
May 2010-May 2014

Courses: Intro to Biology I & II – Lecturer/Lab supervisor for introductory Biology courses for incoming first year biology majors

Microbiology - Lecturer/Lab supervisor for microbiology courses for nursing students

9. Publication Record

A. Peer Reviewed Publications:

Paul K. Wallace, et al. *Cyt-Geist: Current and Future Challenges in Cytometry: Reports of the CYTO 2025 Conference Workshops Cytometry Part A*; Volume 109, Issue 1.
<https://doi.org/10.1002/cytoa.70002>

Myers MA, Smith AP, Lane LC, Moquin DJ, Aogo R, **Woolard S**, Thomas P, Vogel P, Smith AM. 2021 *Dynamically linking influenza virus infection kinetics, lung injury, inflammation, and disease severity. eLife*. 10:e68864. doi: [10.7554/eLife.68864](https://doi.org/10.7554/eLife.68864)

Smith AP, Lane LC, van Opijnen T, **Woolard S**, Carter R, Iverson A, Burnham C, Vogel P, Roeber D, Hochu G, Johnson MDL, McCullers JA, Rosch J, Smith AM. *Dynamic Pneumococcal Genetic Adaptations Support Bacterial Growth and Inflammation during Coinfection with Influenza*. *Infect Immun*. 2021 Jun 16;89(7):e0002321. doi: [10.1128/IAI.00023-21](https://doi.org/10.1128/IAI.00023-21). Epub 2021 Jun 16. PMID: 33875471; PMCID: PMC8208518.

Palipane M, Snyder JD, LeMessurier KS, Schofield AK, **Woolard SN**, Samarasinghe AE. *Macrophage CD14 impacts immune defenses against influenza virus in allergic hosts*. *Microb Pathog*. 2019 Feb;127:212-219.

Samarasinghe AE, **Woolard SN**, Boyd KL, Hoselton SA, Schuh JM, McCullers JA. *The immune profile associated with acute allergic asthma accelerates clearance of influenza virus*. Immunol Cell Biol. 2014 May-Jun;92(5):449-59.

Subhadra Nandakumar, **Stacie N Woolard**, Dorothy Yuan, Barry T Rouse, Uday Kumaraguru. *Natural killer cells as novel helpers in anti-HSV immune response*. Journal of Virology. 2008, Nov; 82 (21): 10820-31.

Stacie N. Woolard, Subhadra Nandakumar, Evelyn Kurt-Jones¹, Dorothy Yuan² and Uday Kumaraguru. *Herpes Simplex Virus induces early activation of NK cells via MyD88-dependent signal*. July 2010; The Open Immunology Journal 3(1):36-44

Stacie N. Woolard, and Uday Kumaraguru. *Viral Vaccines to augment CTL Response*. J Biomed Biotechnol. 2010;2010:141657. Epub 2010 Mar 31. Review.

B. Non-peer reviewed publications and reports:

Stacie N. Woolard. "Implementing Spectral Flow Cytometry in the Clinical Laboratory: From Adoption to Validation". International Clinical Cytometry Society (ICCS) Newsletter; Vol XVII, No. 1, 2026. <https://www.cytometry.org/online/resources/newsletters/eICCS-17-1/article2.php>

Stacie N. Woolard. "Optimizing Fluorochrome Cocktailing in Clinical Flow Cytometry: Strategies for Precision and Efficiency". International Clinical Cytometry Society (ICCS) Newsletter; Vol XVII, No. 1, 2026. <https://www.cytometry.org/online/resources/newsletters/eICCS-17-1/article3.php>

Stacie N. Woolard, Cory A. Leonard and Uday Kumaraguru. *Natural Killer cells adjudicates every stage of anti-viral response*. Current Immunology Reviews, Volume 6, Number 4, November 2010, pp. 381-386(6)

C. Peer Reviewed Publications (Acknowledgements of personal contribution or as member of the FCCSSR core lab)

Gadek KE, Drummond CJ, Jin H, Garcia MR, Mathew ED, Adkins GE, Langdon CG, Evans M, Searcy MB, Schreiner P, Maguire M, Rehg JE, Ogden SK, Hatley ME. Transdifferentiation of endothelial progenitor cells into rhabdomyosarcoma defined by hedgehog signaling competence. Cell Rep 44:116339-, 2025.

Umeda M, Hiltenbrand R, Michmerhuizen NL, Barajas JM, Thomas III ME, Arthur B, Walsh MP, Song G, Ma J, Westover T, Kumar A, Pölönen P, Mecucci C, Di Giacomo D, Locatelli F, Masetti R, Bertuccio SN, Pigazzi M, Pruett-Miller SM, Pounds S, Rubnitz J, Inaba H, Papadopoulos KP, Wick MJ, Iacobucci I, Mullighan CG, Kline JM. Fusion oncoproteins and cooperating mutations define disease phenotypes in NUP98-rearranged leukemia. Blood 146:2102-2118, 2025.

Michmerhuizen NL, Heikamp EB, Iacobucci I, Umeda M, Arthur B, Mishra V, Park CS, Di Giacomo D, Hiltenbrand R, Gao Q, Radko-Juettner S, Lott J, Martucci C, Subramanyam V, Hatton C, Wenge DV, Baviskar P, Portola P, Claquin A, Chandra B, Baggett DW, Khalighifar A, Huang H, Zhou P, Long L, Shi H, Sun Y, Papachristou EK, Sekhar Reddy Chilamakuri C, de Luna Vitorino FN, Gongora JM, Wu H, Pounds SB, Janke LJ, Kentsis A, D'Santos CS, Garcia BA, Kriwacki RW, Chi H, Klco JM, Armstrong SA, Mullighan CG. KAT6A and KAT7 histone acetyltransferase complexes are molecular dependencies and therapeutic targets in NUP98-rearranged acute myeloid leukemia. *Cancer Discov* 15:2096-2116, 2025.

Bhoopalan SV, Mayuranathan T, Liu N, Mayberry K, Yao Y, Zhang J, Métais JY, Yan KK, Throm RE, Ellis SR, Ju Y, Han L, Suryaprakash S, Palmer LE, Zhou S, Yu J, Cheng Y, Yen JS, Gottschalk S, Weiss MJ. Preclinical development of lentiviral vector gene therapy for Diamond-Blackfan anemia syndrome. *Mol Ther* 33:3086-3100, 2025.

Gehle DB, Jablonowski CM, Pichavaram P, Singh S, Woolard MA, Morton CL, Billups CA, Davidoff AM, Yang J, Murphy AJ. Characterizing sensitivity to vincristine, irinotecan, and telomerase-targeted therapy in diffuse anaplastic Wilms tumor patient-derived xenografts(☆). *J Pediatr Surg* 60:162122-, 2025.

Hyle J, Qi W, Djekidel MN, Rosikiewicz W, Xu B, Li C. Deciphering the role of RNA in regulating CTCF's DNA binding affinity in leukemia cells. *Genome Biol* 26:126-, 2025.

Mavuluri J, Dhungana Y, Jones LL, Bhatara S, Shi H, Yang X, Lim SE, Reyes N, Chi H, Yu J, Geiger TL, . GPR65 inactivation in tumor cells drives antigen-independent CAR T-cell resistance via macrophage remodeling. *Cancer Discov* 15:1018-1036, 2025.

Hall T, Mehmood R, Sá da Bandeira D, Cotton A, Klein J, Pruett-Miller SM, Izraeli S, Clements WK, Crispino JD. Modeling GATA2 deficiency in mice: The R396Q mutation disrupts normal hematopoiesis. *Leukemia* 39:734-747, 2025.

Fremuth LE, Hu H, van de Vlekkert D, Annunziata I, Weesner JA, Alessandra d'Azzo. Neuraminidase 1 regulates neuropathogenesis by governing the cellular state of microglia via modulation of Trem2 sialylation. *Cell Rep* 44:115204-, 2025.

Lechauve C, Keith J, Fernandez AG, Khandros E, Mayberry K, Mayuranathan T, Palmer LE, Qiu X, Sheppard H, Telange R, Herz HM, Weiss MJ. Ancestral β -globin gene haplotypes modify β -thalassemia severity in a mouse model. *Blood Adv* 8:5988-5992, 2024.

Wilander BA, Harris TL, Mandarano AH, Guy CS, Prater MS, Pruett-Miller SM, Ogden SK, McGargill MA. DRAK2 regulates myosin light chain phosphorylation in T cells.

J Cell Sci 137:jcs261813-, 2024.

Gibbs E, Miao Q, Ferrolino M, Bajpai R, Hassan A, Phillips AH, Pitre A, Kümmerle R, Miller S, Nagy G, Leite W, Heller W, Stanley C, Perrone B, Kriwacki R. p14(ARF) forms meso-scale assemblies upon phase separation with NPM1. Nat Commun 15:9531-, 2024.

Morales-Hernández A, Kooienga E, Sheppard H, Gheorghe G, Caprio C, Chabot A, McKinney-Freeman S. GPRASP protein deficiency triggers lymphoproliferative disease by affecting B-cell differentiation. Hemasphere 8:e70037-, 2024.

Everette KA, Newby GA, Levine RM, Mayberry K, Jang Y, Mayuranathan T, Nimmagadda N, Dempsey E, Li Y, Bhoopalan SV, Liu X, Davis JR, Nelson AT, Chen PJ, Sousa AA, Cheng Y, Tisdale JF, Weiss MJ, Yen JS, Liu DR. Ex vivo prime editing of patient hematopoietic stem cells rescues sickle-cell disease phenotypes after engraftment in mice. Nat Biomed Eng 7:616-628, 2023.

Yoshimura S, Panetta JC, Hu J, Li L, Gocho Y, Du G, Umezawa A, Karol SE, Pui CH, Mullighan CG, Konopleva M, Stock W, Teachey DT, Jain N, Yang JJ. Preclinical pharmacokinetic and pharmacodynamic evaluation of dasatinib and ponatinib for the treatment of T-cell acute lymphoblastic leukemia. Leukemia :-, 2023.

Xie J, Kuriakose T, Bianski B, Twarog N, Savage E, Xu K, Zhu X, He C, Hansen B, Wang H, High A, Li Y, Rehg JE, Tillman HS, Freeman BB, Rankovic Z, Onar-Thomas A, Fan Y, Wu G, Peng J, Miller S, Baker SJ, Shelat AA, Tinkle CL. ATM inhibition enhances the efficacy of radiation across distinct molecular subgroups of pediatric high-grade glioma. Neuro Oncol :-, 2023.

Hyle J, Djekidel MN, Williams J, Wright S, Shao Y, Xu B, Li C. Auxin-inducible degron 2 system deciphers functions of CTCF domains in transcriptional regulation. Genome Biol 24:14-, 2023.

Bhoopalan SV, Yen JS, Mayuranathan T, Mayberry KD, Yao Y, Lillo Osuna MA, Jang Y, Liyanage JS, Blanc L, Ellis SR, Wlodarski MW, Weiss MJ. An RPS19-edited model for Diamond-Blackfan anemia reveals TP53-dependent impairment of hematopoietic stem cell activity. JCI Insight 8:e161810-, 2023.

Jonchere B, Williams J, Zindy F, Liu J, Robinson S, Farmer DM, Min J, Yang L, Stripay JL, Wang Y, Freeman BB, Yu J, Shelat AA, Rankovic Z, Roussel MF. Combination of ribociclib with BET-bromodomain and PI3K/mTOR inhibitors for medulloblastoma treatment in vitro and in vivo. Mol Cancer Ther 22:37-51, 2023.

Melo-Cardenas J, Bezavada L, Crawford JC, Gurbuxani S, Cotton A, Kang G, Gossett J, Marinaccio C, Weinberg R, Hoffman R, Migliaccio ARX, Zheng Y, Derecka M, Rinaldi

CR, Crispino JD. IL-13/IL-4 signaling contributes to fibrotic progression of the myeloproliferative neoplasms.
Blood 140:2805-2817, 2022.

Feng R, Mayuranathan T, Huang P, Doerfler PA, Li Y, Yao Y, Zhang J, Palmer LE, Mayberry K, Christakopoulos GE, Xu P, Li C, Cheng Y, Blobel GA, Simon MC, Weiss MJ. Activation of γ -globin expression by hypoxia-inducible factor 1 α .
Nature 610:783-790, 2022.

Li Y, Yang X, Sun Y, Li Z, Yang W, Ju B, Easton J, Pei D, Cheng C, Lee S, Pui CH, Yu J, Chi H, Yang JJ. Impact of T-cell immunity on chemotherapy response in childhood acute lymphoblastic leukemia.
Blood 140:1507-1521, 2022.

Hall TD, Kim H, Dabbah M, Myers JA, Crawford JC, Morales-Hernandez A, Caprio CE, Sriram P, Kooienga E, Derecka M, Obeng EA, Thomas PG, McKinney-Freeman S. Murine fetal bone marrow does not support functional hematopoietic stem and progenitor cells until birth.
Nat Commun 13:5403-, 2022.

Brady SW, Roberts KG, Gu Z, Shi L, Pounds S, Pei D, Cheng C, Dai Y, Devidas M, Qu C, Hill AN, Payne-Turner D, Ma X, Iacobucci I, Baviskar P, Wei L, Arunachalam S, Hagiwara K, Liu Y, Flasch DA, Liu Y, Parker M, Chen X, Elsayed AH, Pathak O, Li Y, Fan Y, Michael JR, Rusch M, Wilkinson MR, Foy S, Hedges DJ, Newman S, Zhou X, Wang J, Reilly C, Sioson E, Rice SV, Pastor Loyola V, Wu G, Rampersaud E, Reshmi SC, Gastier-Foster J, Guidry Auvil JM, Gesuwan P, Smith MA, Winick N, Carroll AJ, Heerema NA, Harvey RC, Willman CL, Larsen E, Raetz EA, Borowitz MJ, Wood BL, Carroll WL, Zweidler-McKay PA, Rabin KR, Mattano LA, Maloney KW, Winter SS, Burke MJ, Salzer W, Dunsmore KP, Angiolillo AL, Crews KR, Downing JR, Jeha S, Pui CH, Evans WE, Yang JJ, Relling MV, Gerhard DS, Loh ML, Hunger SP, Zhang J, Mullighan CG. The genomic landscape of pediatric acute lymphoblastic leukemia.
Nat Genet 54:1376-1389, 2022.

Kimura S, Montefiori L, Iacobucci I, Zhao Y, Gao Q, Paietta EM, Haferlach C, Laird AD, Mead PE, Gu Z, Stock W, Litzow M, Rowe JM, Luger SM, Hunger SP, Ryland GL, Schmidt B, Ekert PG, Oshlack A, Grimmond SM, Rehn J, Breen J, Yeung D, White DL, Aldoss I, Jabbour EJ, Pui CH, Meggendorfer M, Walter W, Kern W, Haferlach T, Brady S, Zhang J, Roberts KG, Blombery P, Mullighan CG. Enhancer retargeting of CDX2 and UBTF::ATXN7L3 define a subtype of high-risk B-progenitor acute lymphoblastic leukemia.
Blood 139:3519-3531, 2022.

Iacobucci I, Fukano R, D Friske J, Qu C, Janke LJ, Zhao Y, Baviskar P, A Backhaus E, Chockley P, Seth A, Laird AD, Advani AS, Mullighan CG. G3BP2-KIT drives leukemia amenable to kinase inhibition in Ph-like ALL.
Blood Adv 6:3255-3259, 2022.

Woodard KJ, Doerfler PA, Mayberry KD, Sharma A, Levine R, Yen J, Valentine V, Palmer LE, Valentine M, Weiss MJ. Limitations of mouse models for sickle cell disease conferred by their human globin transgene configurations.
Dis Model Mech 15:-, 2022.

Umeda M, Ma J, Huang BJ, Hagiwara K, Westover T, Abdelhamed S, Barajas JM, Thomas ME, Walsh MP, Song G, Tian L, Liu Y, Chen X, Kolekar P, Tran Q, Foy SG, Maciaszek JL, Kleist AB, Leonti AR, Ju B, Easton J, Wu H, Valentine V, Valentine MB, Liu YC, Ries RE, Smith JL, Parganas E, Iacobucci I, Hiltenbrand R, Miller J, Myers JR, Rampersaud E, Rahbarinia D, Rusch M, Wu G, Inaba H, Wang YC, Alonzo TA, Downing JR, Mullighan CG, Pounds S, Babu MM, Zhang J, Rubnitz JE, Meshinchi S, Ma X, Klco JM. Integrated genomic analysis identifies UBTF tandem duplications as a recurrent lesion in pediatric acute myeloid leukemia.

Blood Cancer Discov 3:194-207, 2022.

Dickerson KM, Qu C, Gao Q, Iacobucci I, Gu Z, Yoshihara H, Backhaus EA, Chang Y, Janke LJ, Xu B, Wu G, Papachristou EK, D'Santos CS, Roberts KG, Mullighan CG. ZNF384 fusion oncoproteins drive lineage aberrancy in acute leukemia.

Blood Cancer Discov 3:240-263, 2022.

Chandra B, Michmerhuizen NL, Shirnekhi HK, Tripathi S, Pioso BJ, Baggett DW, Mitrea DM, Iacobucci I, White MR, Chen J, Park CG, Wu H, Pounds S, Medyukhina A, Khairy K, Gao Q, Qu C, Abdelhamed S, Gorman SD, Bawa S, Maslanka C, Kingler S, Dogra P, Ferrolino MC, Di Giacomo D, Mecucci C, Klco JM, Mullighan CG, Kriwacki RW. Phase separation mediates NUP98 fusion oncoprotein leukemic transformation.

Cancer Discov 12:1152-1169, 2022.

Moustaki A, Crawford JC, Alli S, Fan Y, Boi S, Zamora AE, McDonald NMN, Wu G, Nakitandwe J, Newman S, Foy S, Silkov A, Thomas PG, Pappo A, Dyer MA, Stewart E, Federico S, Youngblood B. Antigen cross-presentation in young tumor-bearing hosts promotes CD8(+) T cell terminal differentiation.

Sci Immunol 7:eabf6136-, 2022.

Kwak YD, Shaw TI, Downing SM, Tewari A, Jin H, Li Y, Dumitrache LC, Katyal S, Khodakhah K, Russell HR, McKinnon PJ. Chromatin architecture at susceptible gene loci in cerebellar Purkinje cells characterizes DNA damage-induced neurodegeneration.

Sci Adv 7:eabg6363-, 2021.

Aditi, Downing SM, Schreiner PA, Kwak YD, Li Y, Shaw TI, Russell HR, McKinnon PJ. Genome instability independent of type I interferon signaling drives neuropathology caused by impaired ribonucleotide excision repair.

Neuron 109:3962-3979.e6, 2021.

Lavado A, Gangwar R, Paré J, Wan S, Fan Y, Cao X. YAP/TAZ maintain the proliferative capacity and structural organization of radial glial cells during brain development.

Dev Biol 480:39-49, 2021.

Thomas ME 3rd, Abdelhamed S, Hiltenbrand R, Schwartz JR, Sakurada SM, Walsh M, Song G, Ma J, Pruett-Miller SM, Klco JM. Pediatric MDS and bone marrow failure-associated germline mutations in SAMD9 and SAMD9L impair multiple pathways in primary hematopoietic cells.

Leukemia 35:3232-3244, 2021.

Gartrell J, Mellado-Largarde M, Clay MR, Bahrami A, Sahr NA, Sykes A, Blankenship K, Hoffmann L, Xie J, Cho HP, Twarog N, Connelly M, Yan KK, Yu J, Porter SN, Pruett-Miller SM, Neale G, Tinkle CL, Federico SM, Stewart EA, Shelat AA. SLFN11 is widely expressed in pediatric sarcoma and induces variable sensitization to replicative stress caused by DNA-damaging agents.
Mol Cancer Ther 20:2151-2165, 2021.

Langdon CG, Gadek KE, Garcia MR, Evans MK, Reed KB, Bush M, Hanna JA, Drummond CJ, Maguire MC, Leavey PJ, Finkelstein D, Jin H, Schreiner PA, Rehg JE, Hatley ME. Synthetic essentiality between PTEN and core dependency factor PAX7 dictates rhabdomyosarcoma identity.
Nat Commun 12:5520-, 2021.

Zong X, Hao X, Xu B, Crawford JC, Wright S, Li J, Zhang Y, Bai L, He M, Jiang M, Fan Y, Connelly JP, Pruett-Miller SM, Berns H, Janke L, Li C, Feng Y. Foxp3 enhancers synergize to maximize regulatory T cell suppressive capacity.
J Exp Med 218:-, 2021.

Doerfler PA, Feng R, Li Y, Palmer LE, Porter SN, Bell HW, Crossley M, Pruett-Miller SM, Cheng Y, Weiss MJ. Activation of γ -globin gene expression by GATA1 and NF-Y in hereditary persistence of fetal hemoglobin.
Nat Genet 53:1177-1186, 2021.

Zheng W, Wei J, Zebley C, Jones LL, Dhungana Y, Wang YD, Mavuluri J, Long L, Fan Y, Youngblood B, Chi H, Geiger TL. Regnase-1 suppresses TCF-1+ precursor exhausted T-cell formation to limit CAR-T-cell responses against ALL.
Blood 138:122-135, 2021.

Okda FA, Perry SS, Webby RJ, Russell CJ. Interplay between H1N1 influenza A virus infection, extracellular and intracellular respiratory tract pH, and host responses in a mouse model.
PLoS One 16:e0251473-, 2021.

Tartey S, Neale G, Vogel P, Malireddi RKS, Kanneganti TD. A MyD88/IL1R Axis regulates PD-1 expression on tumor-associated macrophages and sustains their immunosuppressive function in melanoma.
Cancer Res 81:2358-2372, 2021.

Bonner MA, Morales-Hernández A, Zhou S, Ma Z, Condori J, Wang YD, Fatima S, Palmer LE, Janke LJ, Fowler S, Sorrentino BP, McKinney-Freeman S. 3' UTR-truncated HMGA2 overexpression induces non-malignant in vivo expansion of hematopoietic stem cells in non-human primates.
Mol Ther Methods Clin Dev 21:693-701, 2021.

Turnis ME, Kaminska E, Smith KH, Kartchner BJ, Vogel P, Laxton JD, Ashmun RA, Ney PA, Opferman JT. Requirement for antiapoptotic MCL-1 during early erythropoiesis.
Blood 137:1945-1958, 2021.

Iacobucci I, Qu C, Varotto E, Janke LJ, Yang X, Seth A, Shelat A, Friske JD, Fukano R, Yu J, Freeman BB, Kennedy JA, Sperling AS, Zheng R, Wang Y, Jogiraju H, Dickerson KM, Payne-Turner D, Morris SM, Hollis ES, Ghosn N, Haggard GE, Lindsley RC, Ebert

BL, Mullighan CG. Modeling and targeting of erythroleukemia by hematopoietic genome editing.
Blood 137:1628-1640, 2021.

Qi Q, Cheng L, Tang X, He Y, Li Y, Yee T, Shrestha D, Feng R, Xu P, Zhou X, Pruett-Miller S, Hardison RC, Weiss MJ, Cheng Y. Dynamic CTCF binding directly mediates interactions among cis-regulatory elements essential for hematopoiesis.
Blood 137:1327-1339, 2021.

Schwartz JR, Ma J, Kamens J, Westover T, Walsh MP, Brady SW, Michael JR, Chen X, Montefiori L, Song G, Wu G, Wu H, Branstetter C, Hiltenbrand R, Walsh MF, Nichols KE, Maciaszek JL, Liu Y, Kumar P, Easton J, Newman S, Rubnitz JE, Mullighan CG, Pounds S, Zhang J, Gruber T, Ma X, Klco JM. The acquisition of molecular drivers in pediatric therapy-related myeloid neoplasms.
Nat Commun 12:985-, 2021.

Zhao Y, Aldoss I, Qu C, Crawford JC, Gu Z, Allen EK, Zamora AE, Alexander TB, Wang J, Goto H, Imamura T, Akahane K, Marcucci G, Stein AS, Bhatia R, Thomas PG, Forman SJ, Mullighan CG, Roberts KG. Tumor-intrinsic and -extrinsic determinants of response to blinatumomab in adults with B-ALL.
Blood 137:471-484, 2021.

Endersby R, Whitehouse J, Pribnow A, Kuchibhotla M, Hii H, Carline B, Gande S, Stripay J, Ancliffe M, Howlett M, Schoep T, George C, Andradas C, Dyer P, Schluck M, Patterson B, Tacheva-Gigorova SK, Cooper MN, Robinson G, Stewart C, Pfister SM, Kool M, Milde T, Gajjar A, Johns T, Wechsler-Reya RJ, Roussel MF, Gottardo NG. Small-molecule screen reveals synergy of cell cycle checkpoint kinase inhibitors with DNA-damaging chemotherapies in medulloblastoma.
Sci Transl Med 13:-, 2021.

Xu P, Scott DC, Xu B, Yao Y, Feng R, Cheng L, Mayberry K, Bi W, Palmer LE, King MT, Wang H, Li Y, Fan Y, Alpi AF, Li C, Peng J, Papizan J, Pruett-Miller SM, Spallek R, Bassermann F, Cheng Y, Schulman BA, Weiss MJ. FBXO11-Mediated proteolysis of BAHD1 relieves PRC2-dependent transcriptional repression in erythropoiesis.
Blood 137:155-167, 2021.

Jang Y, Kim YS, Wielgosz MM, Ferrara F, Ma Z, Condori J, Palmer LE, Zhao X, Kang G, Rawlings DJ, Zhou S, Ryu BY. Optimizing lentiviral vector transduction of hematopoietic stem cells for gene therapy.
Gene Ther 27:545-556, 2020.

Su W, Chapman NM, Wei J, Zeng H, Dhungana Y, Shi H, Saravia J, Zhou P, Long L, Rankin S, Kc A, Vogel P, Chi H. Protein prenylation drives discrete signaling programs for the differentiation and maintenance of effector T(reg) cells.
Cell Metab 32:996-1011.e7, 2020.

Karayel Ö, Xu P, Bludau I, Velan Bhoopalan S, Yao Y, Ana Rita FC, Santos A, Schulman BA, Alpi AF, Weiss MJ, Mann M. Integrative proteomics reveals principles of dynamic phosphosignaling networks in human erythropoiesis.
Mol Syst Biol 16:e9813-, 2020.

Zhang H, Zhang Y, Zhou X, Wright S, Hyle J, Zhao L, An J, Zhao X, Shao Y, Xu B, Lee HM, Chen T, Zhou Y, Chen X, Lu R, Li C. Functional interrogation of HOXA9 regulome in MLLr leukemia via reporter-based CRISPR/Cas9 screen. *Elife* 9:e57858-, 2020.

Han MJ, Annunziata I, Weesner J, Campos Y, Salie M, O'Reilly C, d'Azzo A. Generation of human induced pluripotent stem cells (hiPSCs) from sialidosis types I and II patients with pathogenic neuraminidase 1 mutations. *Stem Cell Res* 46:101836-, 2020.

Ling T, Hadi V, Bollinger J, Rivas F. Identification of rapid access to polycyclic systems via a base-catalyzed cascade cyclization reaction and their biological evaluation. *Bioorg Chem* 99:103846-, 2020.

Cortez V, Boyd DF, Crawford JC, Sharp B, Livingston B, Rowe HM, Davis A, Alsallaq R, Robinson CG, Vogel P, Rosch JW, Margolis E, Thomas PG, Schultz-Cherry S. Astrovirus infects actively secreting goblet cells and alters the gut mucus barrier. *Nat Commun* 11:2097-, 2020.

Morales-Hernández A, Benaksas C, Chabot A, Caprio C, Ferdous M, Zhao X, Kang G, McKinney-Freeman S. GPRASP proteins are critical negative regulators of hematopoietic stem cell transplantation. *Blood* 135:1111-1123, 2020.

Wijaya J, Vo BT, Liu J, Xu B, Wu G, Wang Y, Peng J, Zhang J, Janke LJ, Orr BA, Yu J, Roussel MF, Schuetz JD. An ABC transporter drives medulloblastoma pathogenesis by regulating Sonic hedgehog signaling. *Cancer Res* 80:1524-1537, 2020.

Zhan J, Irudayam MJ, Nakamura Y, Kurita R, Nienhuis AW. High level of fetal-globin reactivation by designed transcriptional activator-like effector. *Blood Adv* 4:687-695, 2020.

Annu K, Cline C, Yasuda K, Ganguly S, Pesch A, Cooper B, Janke L, Payton M, Mukherjee K, Surman SL, Hurwitz JL, Schuetz EG. Role of vitamins A and D in BCR-ABL Arf(-/-) acute lymphoblastic leukemia. *Sci Rep* 10:2359-, 2020.

Métais JY, Doerfler PA, Mayuranathan T, Bauer DE, Fowler SC, Hsieh MM, Katta V, Keriwala S, Lazzarotto CR, Luk K, Neel MD, Perry SS, Peters ST, Porter SN, Ryu BY, Sharma A, Shea D, Tisdale JF, Uchida N, Wolfe SA, Woodard KJ, Wu Y, Yao Y, Zeng J, Pruett-Miller S, Tsai SQ, Weiss MJ. Genome editing of HBG1 and HBG2 to induce fetal hemoglobin. *Blood Adv* 3:3379-3392, 2019.

Lechauve C, Keith J, Khandros E, Fowler S, Mayberry K, Freiwan A, Thom CS, Delbini P, Romero EB, Zhang J, Motta I, Tillman H, Cappellini MD, Kundu M, Weiss MJ. The autophagy-activating kinase ULK1 mediates clearance of free α -globin in β -thalassemia. *Sci Transl Med* 11:-, 2019.

Annunziata I, van de Vlekkert D, Wolf E, Finkelstein D, Neale G, Machado E, Mosca R, Campos Y, Tillman H, Roussel MF, Andrew Weesner J, Ellen Fremuth L, Qiu X, Han MJ, Grosveld GC, d'Azzo A. MYC competes with MiT/TFE in regulating lysosomal biogenesis and autophagy through an epigenetic rheostat.

Nat Commun 10:3623-, 2019.

Albeituni S, Verbist KC, Tedrick PE, Tillman H, Picarsic J, Bassett R, Nichols KE. Mechanisms of action of ruxolitinib in murine models of hemophagocytic lymphohistiocytosis.

Blood 134:147-159, 2019.

van de Vlekkert D, Demmers J, Nguyen XX, Campos Y, Machado E, Annunziata I, Hu H, Gomero E, Qiu X, Bongiovanni A, Feghali-Bostwick CA, d'Azzo A. Excessive exosome release is the pathogenic pathway linking a lysosomal deficiency to generalized fibrosis.

Sci Adv 5:eaav3270-, 2019.

Ling T, Lang WH, Martinez-Montemayor MM, Rivas F. Development of ergosterol peroxide probes for cellular localisation studies.

Org Biomol Chem 17:5223-5229, 2019.

Ling T, Lang WH, Maier J, Quintana Centurion M, Rivas F. Cytostatic and cytotoxic natural products against cancer cell models.

Molecules 24:-, 2019.

Ling T, Lang WH, Craig J, Potts MB, Budhraja A, Opferman J, Bollinger J, Maier J, Marsico TD, Rivas F. Studies of Jatrogossone A as a reactive oxygen species inducer in cancer cellular models.

J Nat Prod 82:1301-1311, 2019.

Talleur AC, Metais JY, Li Y, Throm RE, Tillman H, Rooney B, Moustaki A, Leung W. Allogeneic CD27-depleted cells in adoptive cell therapy.

Adv Cell Gene Ther 2:e45-, 2019.

Iacobucci I, Wen J, Meggendorfer M, Choi JK, Shi L, Pounds SB, Carmichael CL, Masih KE, Morris SM, Lindsley RC, Janke LJ, Alexander TB, Song G, Qu C, Li Y, Payne-Turner D, Tomizawa D, Kiyokawa N, Valentine M, Valentine V, Basso G, Locatelli F, Enemark EJ, Kham SKY, Yeoh AEJ, Ma X, Zhou X, Sioson E, Rusch M, Ries RE, Stieglitz E, Hunger SP, Wei AH, To LB, Lewis ID, D'Andrea RJ, Kile BT, Brown AL, Scott HS, Hahn CN, Marlton P, Pei D, Cheng C, Loh ML, Ebert BL, Meshinchi S, Haferlach T, Mullighan CG. Genomic subtyping and therapeutic targeting of acute erythroleukemia.

Nat Genet 51:694-704, 2019.

Grande BM, Gerhard DS, Jiang A, Griner NB, Abramson JS, Alexander TB, Allen H, Ayers LW, Bethony JM, Bhatia K, Bowen J, Casper C, Choi JK, Culibrk L, Davidsen TM, Dyer MA, Gastier-Foster JM, Gesuwan P, Greiner TC, Gross TG, Hanf B, Harris NL, He Y, Irvin JD, Jaffe ES, Jones SJM, Kerchan P, Knoetze N, Leal FE, Lichtenberg TM, Ma Y, Martin JP, Martin MR, Mbulaiteye SM, Mullighan CG, Mungall AJ, Namirembe C, Novik K, Noy A, Ogwang MD, Omoding A, Orem J, Reynolds SJ, Rushton CK, Sandlund JT, Schmitz R, Taylor C, Wilson WH, Wright GW, Zhao EY, Marra MA, Morin RD, Staudt LM. Genome-wide discovery of somatic coding and noncoding mutations in pediatric endemic and sporadic Burkitt lymphoma.

Blood 133:1313-1324, 2019.

Lavado A, Park JY, Pare J, Finkelstein D, Pan H, Xu B, Fan Y, Kumar RP, Neale G, Kwak YD, McKinnon PJ, Johnson RL, Cao X. The Hippo pathway prevents YAP/TAZ-driven hypertranscription and controls neural progenitor number. *Dev Cell* 47:576-591.e8, 2018.

Schwartz JR, Walsh MP, Ma J, Lamprecht T, Wang S, Wu G, Raimondi S, Triplett BM, Kico JM. Clonal dynamics of donor-derived myelodysplastic syndrome after unrelated hematopoietic cell transplantation for high-risk pediatric B-lymphoblastic leukemia. *Cold Spring Harb Mol Case Stud* 4:-, 2018.

Fatima S, Zhou S, Sorrentino BP. Marking of definitive HSC precursors in E7.5-E8.5 embryos using an *Abcg2-CreER* lineage-tracing mouse model. *Exp Hematol* 65:29-33, 2018.

Roberts KG, Janke LJ, Zhao Y, Seth A, Ma J, Finkelstein D, Smith S, Ebata K, Tuch BB, Hunger SP, Mullighan CG. ETV6-NTRK3 induces aggressive acute lymphoblastic leukemia highly sensitive to selective TRK inhibition. *Blood* 132:861-865, 2018.

Roberts KG, Reshmi SC, Harvey RC, Chen IM, Patel K, Stonerock E, Jenkins H, Dai Y, Valentine M, Gu Z, Zhao Y, Zhang J, Payne-Turner D, Devidas M, Heerema NA, Carroll AJ, Raetz EA, Borowitz MJ, Wood BL, Mattano LA Jr, Maloney KW, Carroll WL, Loh ML, Willman CL, Gastier-Foster JM, Mullighan CG, Hunger SP. Genomic and outcome analyses of Ph-like ALL in NCI standard-risk patients: A report from the Children's Oncology Group. *Blood* 132:815-824, 2018.

Hijano DR, Siefker DT, Shrestha B, Jalgama S, Vu LD, Tillman H, Finkelstein D, Saravia J, You D, Cormier SA. Type I interferon potentiates IgA immunity to respiratory syncytial virus infection during infancy. *Sci Rep* 8:11034-, 2018.

Vo BT, Kwon JA, Li C, Finkelstein D, Xu B, Orr BA, Sherr CJ, Roussel MF. Mouse medulloblastoma driven by CRISPR activation of cellular Myc. *Sci Rep* 8:8733-, 2018.

Hall T, Walker M, Ganuza M, Holmfeldt P, Bordas M, Kang G, Bi W, Palmer LE, Finkelstein D, McKinney-Freeman S. Nfix promotes survival of immature hematopoietic cells via regulation of c-Mpl. *Stem Cells* 36:943-950, 2018.

Churchman ML, Qian M, Te Kronnie G, Zhang R, Yang W, Zhang H, Lana T, Tedrick P, Baskin R, Verbist K, Peters JL, Devidas M, Larsen E, Moore IM, Gu Z, Qu C, Yoshihara H, Porter SN, Pruett-Miller SM, Wu G, Raetz E, Martin PL, Bowman WP, Winick N, Mardis E, Fulton R, Stanulla M, Evans WE, Relling MV, Pui CH, Hunger SP, Loh ML, Handgretinger R, Nichols KE, Yang JJ, Mullighan CG. Germline genetic IKZF1 variation and predisposition to childhood acute lymphoblastic leukemia. *Cancer Cell* 33:937-948.e8, 2018.

Ling T, Lang W, Feng X, Das S, Maier J, Jeffries C, Shelat A, Rivas F. Novel vitexin-inspired scaffold against leukemia.
Eur J Med Chem 146:501-510, 2018.

Drummond CJ, Hanna JA, Garcia MR, Devine DJ, Heyrana AJ, Finkelstein D, Rehg JE, Hatley ME. Hedgehog pathway drives fusion-negative rhabdomyosarcoma initiated from non-myogenic endothelial progenitors.
Cancer Cell 33:108-124.e5, 2018.

Mostafa HH, Vogel P, Srinivasan A, Russell CJ. Dynamics of Sendai virus spread, clearance, and immunotherapeutic efficacy after hematopoietic cell transplant imaged noninvasively in mice.
J Virol 92:-, 2018.

Welsh SJ, Churchman ML, Togni M, Mullighan CG, Hagman J. Dereglulation of kinase signaling and lymphoid development in EBF1-PDGFRB ALL leukemogenesis.
Leukemia 32:38-48, 2018.

Schwartz JR, Ma J, Lamprecht T, Walsh M, Wang S, Bryant V, Song G, Wu G, Easton J, Kesserwan C, Nichols KE, Mullighan CG, Ribeiro RC, Klcio JM. The genomic landscape of pediatric myelodysplastic syndromes.
Nat Commun 8:1557-, 2017.

Dang J, Nance S, Ma J, Cheng J, Walsh MP, Vogel P, Easton J, Song G, Rusch M, Gedman AL, Koss C, Downing JR, Gruber TA. AMKL chimeric transcription factors are potent inducers of leukemia.
Leukemia 31:2228-2234, 2017.

Ganuza M, Hall T, Finkelstein D, Chabot A, Kang G, McKinney-Freeman S. Lifelong haematopoiesis is established by hundreds of precursors throughout mammalian ontogeny.
Nat Cell Biol 19:1153-1163, 2017.

Wei L, Murphy BL, Wu G, Parker M, Easton J, Gilbertson RJ, Zhang J, Roussel MF. Exome sequencing analysis of murine medulloblastoma models identifies WDR11 as a potential tumor suppressor in Group 3 tumors.
Oncotarget 8:64685-64697, 2017.

Olsen RR, Otero JH, Garcia-Lopez J, Wallace K, Finkelstein D, Rehg JE, Yin Z, Wang YD, Freeman KW. MYCN induces neuroblastoma in primary neural crest cells.
Oncogene 36:5075-5082, 2017.

Liu Y, Easton J, Shao Y, Maciaszek J, Wang Z, Wilkinson MR, McCastlain K, Edmonson M, Pounds SB, Shi L, Zhou X, Ma X, Sioson E, Li Y, Rusch M, Gupta P, Pei D, Cheng C, Smith MA, Auvil JG, Gerhard DS, Relling MV, Winick NJ, Carroll AJ, Heerema NA, Raetz E, Devidas M, Willman CL, Harvey RC, Carroll WL, Dunsmore KP, Winter SS, Wood BL, Sorrentino BP, Downing JR, Loh ML, Hunger SP, Zhang J, Mullighan CG. The genomic landscape of pediatric and young adult T-lineage acute lymphoblastic leukemia.
Nat Genet 49:1211-1218, 2017.

Ganuza M, Hadland B, Chabot A, Li C, Kang G, Bernstein I, McKinney-Freeman S. Murine hemogenic endothelial precursors display heterogeneous hematopoietic potential ex vivo.

Exp Hematol 51:25-35.e6, 2017.

Abdelsamed HA, Moustaki A, Fan Y, Dogra P, Ghoneim HE, Zebley CC, Triplett BM, Sekaly RP, Youngblood B. Human memory CD8 T cell effector potential is epigenetically preserved during in vivo homeostasis.

J Exp Med 214:1593-1606, 2017.

Samarasinghe AE, Melo RC, Duan S, LeMessurier KS, Liedmann S, Surman SL, Lee JJ, Hurwitz JL, Thomas PG, McCullers JA. Eosinophils promote antiviral immunity in mice infected with influenza A virus.

J Immunol 198:3214-3226, 2017.

Vo BT, Li C, Morgan MA, Theurillat I, Finkelstein D, Wright S, Hyle J, Smith SMC, Fan Y, Wang YD, Wu G, Orr BA, Northcott PA, Shilatifard A, Sherr CJ, Roussel MF. Inactivation of Ezh2 upregulates Gfi1 and drives aggressive Myc-driven group 3 medulloblastoma.

Cell Rep 18:2907-2917, 2017.

de Rooij JD, Branstetter C, Ma J, Li Y, Walsh MP, Cheng J, Obulkasim A, Dang J, Easton J, Verboon LJ, Mulder HL, Zimmermann M, Koss C, Gupta P, Edmonson M, Rusch M, Lim JY, Reinhardt K, Pigazzi M, Song G, Yeoh AE, Shih LY, Liang DC, Halene S, Krause DS, Zhang J, Downing JR, Locatelli F, Reinhardt D, van den Heuvel-Eibrink MM, Zwaan CM, Fornerod M, Gruber TA. Pediatric non-Down syndrome acute megakaryoblastic leukemia is characterized by distinct genomic subsets with varying outcomes.

Nat Genet 49:451-456, 2017.

Roberts KG, Gu Z, Payne-Turner D, McCastlain K, Harvey RC, Chen IM, Pei D, Iacobucci I, Valentine M, Pounds SB, Shi L, Li Y, Zhang J, Cheng C, Rambaldi A, Tosi M, Spinelli O, Radich JP, Minden MD, Rowe JM, Luger S, Litzow MR, Tallman MS, Wiernik PH, Bhatia R, Aldoss I, Kohlschmidt J, Mrozek K, Marcucci G, Bloomfield CD, Stock W, Kornblau S, Kantarjian HM, Konopleva M, Paietta E, Willman CL, Mullighan CG. High frequency and poor outcome of Philadelphia chromosome-like acute lymphoblastic leukemia in adults.

J Clin Oncol 35:394-401, 2017.

Zhang J, McCastlain K, Yoshihara H, Xu B, Chang Y, Churchman ML, Wu G, Li Y, Wei L, Iacobucci I, Liu Y, Qu C, Wen J, Edmonson M, Payne-Turner D, Kaufmann KB, Takayanagi SI, Wienholds E, Waanders E, Ntziachristos P, Bakogianni S, Wang J, Aifantis I, Roberts KG, Ma J, Song G, Easton J, Mulder HL, Chen X, Newman S, Ma X, Rusch M, Gupta P, Boggs K, Vadodaria B, Dalton J, Liu Y, Valentine ML, Ding L, Lu C, Fulton RS, Fulton L, Tabib Y, Ochoa K, Devidas M, Pei D, Cheng C, Yang J, Evans WE, Relling MV, Pui CH, Jeha S, Harvey RC, Chen IL, Willman CL, Marcucci G, Bloomfield CD, Kohlschmidt J, Mrozek K, Paietta E, Tallman MS, Stock W, Foster MC, Racevskis J, Rowe JM, Luger S, Kornblau SM, Shurtleff SA, Raimondi SC, Mardis ER, Wilson RK, Dick JE, Hunger SP, Loh ML, Downing JR, Mullighan CG. Deregulation of DUX4 and ERG in acute lymphoblastic leukemia.

Nat Genet 48:1481-1489, 2016.

Gu Z, Churchman M, Roberts K, Li Y, Liu Y, Harvey RC, McCastlain K, Reshmi SC, Payne-Turner D, Iacobucci I, Shao Y, Chen IM, Valentine M, Pei D, Mungall KL, Mungall AJ, Ma Y, Moore R, Marra M, Stonerock E, Gastier-Foster JM, Devidas M, Dai Y, Wood B, Borowitz M, Larsen EE, Maloney K, Mattano LA Jr, Angiolillo A, Salzer WL, Burke MJ, Gianni F, Spinelli O, Radich JP, Minden MD, Moorman AV, Patel B, Fielding AK, Rowe JM, Luger SM, Bhatia R, Aldoss I, Forman SJ, Kohlschmidt J, Mrozek K, Marcucci G, Bloomfield CD, Stock W, Kornblau S, Kantarjian HM, Konopleva M, Paietta E, Willman CL, Loh ML, Hunger SP, Mullighan CG. Genomic analyses identify recurrent MEF2D fusions in acute lymphoblastic leukaemia.
Nat Commun 7:13331-, 2016.

Kamei A, Gao G, Neale G, Loh LN, Vogel P, Thomas PG, Tuomanen EI, Murray PJ. Exogenous remodeling of lung resident macrophages protects against infectious consequences of bone marrow-suppressive chemotherapy.
Proc Natl Acad Sci U S A 113:E6153-E6161, 2016.

Mostafa HH, Vogel P, Srinivasan A, Russell CJ. Non-invasive imaging of sendai virus infection in pharmacologically immunocompromised mice: NK and T cells, but not neutrophils, promote viral clearance after therapy with cyclophosphamide and dexamethasone.
PLoS Pathog 12:e1005875-, 2016.

Zhou S, Fatima S, Ma Z, Wang YD, Lu T, Janke LJ, Du Y, Sorrentino BP. Evaluating the safety of retroviral vectors based on insertional oncogene activation and blocked differentiation in cultured thymocytes.
Mol Ther 24:1090-1099, 2016.

Gautam LN, Ling T, Lang W, Rivas F. Anti-proliferative evaluation of monoterpene derivatives against leukemia.
Eur J Med Chem 113:75-80, 2016.

Holmfeldt P, Ganuza M, Marathe H, He B, Hall T, Kang G, Moen J, Pardieck J, Saulsberry AC, Cico A, Gaut L, McGoldrick D, Finkelstein D, Tan K, McKinney-Freeman S. Functional screen identifies regulators of murine hematopoietic stem cell repopulation.
J Exp Med 213:433-449, 2016.

Iacobucci I, Li Y, Roberts KG, Dobson SM, Kim JC, Payne-Turner D, Harvey RC, Valentine M, McCastlain K, Easton J, Yergeau D, Janke LJ, Shao Y, Chen IM, Rusch M, Zandi S, Kornblau SM, Konopleva M, Jabbour E, Paietta EM, Rowe JM, Pui CH, Gastier-Foster J, Gu Z, Reshmi S, Loh ML, Racevskis J, Tallman MS, Wiernik PH, Litzow MR, Willman CL, McPherson JD, Downing JR, Zhang J, Dick JE, Hunger SP, Mullighan CG. Truncating erythropoietin receptor rearrangements in acute lymphoblastic leukemia.
Cancer Cell 29:186-200, 2016.

Vo BT, Wolf E, Kawauchi D, Gebhardt A, Rehg JE, Finkelstein D, Walz S, Murphy BL, Youn YH, Han YG, Eilers M, Roussel MF. The interaction of Myc with Miz1 defines medulloblastoma subgroup identity.
Cancer Cell 29:5-16, 2016.

Churchman ML, Evans K, Richmond J, Robbins A, Jones L, Shapiro IM, Pachter JA, Weaver DT, Houghton PJ, Smith MA, Lock RB, Mullighan CG. Synergism of FAK and tyrosine kinase inhibition in Ph+ B-ALL.
JCI Insight 1:e86082-, 2016.

Ling T, Tran M, Gonzalez MA, Gautam LN, Connelly M, Wood RK, Fatima I, Miranda-Carboni G, Rivas F. (+)-Dehydroabietylamine derivatives target triple-negative breast cancer.
Eur J Med Chem 102:9-13, 2015.

Bierle LA, Reich KL, Taylor BE, Blatt EB, Middleton SM, Burke SD, Stultz LK, Hanson PK, Partridge JF, Miller ME. DNA damage response checkpoint activation drives KP1019 dependent pre-anaphase cell cycle delay in *S. cerevisiae*.
PLoS One 10:e0138085-, 2015.

Churchman ML, Low J, Qu C, Paietta EM, Kasper LH, Chang Y, Payne-Turner D, Althoff MJ, Song G, Chen SC, Ma J, Rusch M, McGoldrick D, Edmonson M, Gupta P, Wang YD, Caufield W, Freeman B, Li L, Panetta JC, Baker S, Yang YL, Roberts KG, McCastlain K, Iacobucci I, Peters JL, Centonze VE, Notta F, Dobson SM, Zandi S, Dick JE, Janke L, Peng J, Kodali K, Pagala V, Min J, Mayasundari A, Williams RT, Willman CL, Rowe J, Luger S, Dickins RA, Guy RK, Chen T, Mullighan CG. Efficacy of retinoids in IKZF1-mutated BCR-ABL1 acute lymphoblastic leukemia.
Cancer Cell 28:343-356, 2015.

Ramsey LB, Janke LJ, Payton MA, Cai X, Paugh SW, Karol SE, Kamdem Kamdem L, Cheng C, Williams RT, Jeha S, Pui CH, Evans WE, Relling MV. Antileukemic efficacy of continuous vs discontinuous dexamethasone in murine models of acute lymphoblastic leukemia.
PLoS One 10:e0135134-, 2015.

Dang J, Wei L, de Ridder J, Su X, Rust AG, Roberts KG, Payne-Turner D, Cheng J, Ma J, Qu C, Wu G, Song G, Huether RG, Schulman B, Janke L, Zhang J, Downing JR, van der Weyden L, Adams DJ, Mullighan CG. PAX5 is a tumor suppressor in mouse mutagenesis models of acute lymphoblastic leukemia.
Blood 125:3609-3617, 2015.

Dodd K, Nance S, Quezada M, Janke L, Morrison JB, Williams RT, Beere HM. Tumor-derived inducible heat-shock protein 70 (HSP70) is an essential component of anti-tumor immunity.
Oncogene 34:1312-1322, 2015.

Olsen RR, Mary-Sinclair MN, Yin Z, Freeman KW. Antagonizing Bcl-2 family members sensitizes neuroblastoma and Ewing's sarcoma to an inhibitor of glutamine metabolism.
PLoS One 10:e0116998-, 2015.

Jimenez-Diaz MB, Ebert D, Salinas Y, Pradhan A, Lehane AM, Myrand-Lapierre ME, O'Loughlin KG, Shackelford DM, Justino de Almeida M, Carrillo AK, Clark JA, Dennis AS, Diep J, Deng X, Duffy S, Endsley AN, Fedewa G, Guiguemde WA, Gomez MG, Holbrook G, Horst J, Kim CC, Liu J, Lee MC, Matheny A, Martinez MS, Miller G, Rodriguez-Alejandre A, Sanz L, Sigal M, Spillman NJ, Stein PD, Wang Z, Zhu F, Waterson D, Knapp S, Shelat A, Avery VM, Fidock DA, Gamo FJ, Charman SA, Mirsalis JC, Ma H, Ferrer S, Kirk K, Angulo-Barturen I, Kyle DE, DeRisi JL, Floyd DM, Guy RK. (+)-SJ733, a clinical candidate for malaria that acts through ATP4 to induce rapid host-mediated clearance of Plasmodium. *Proc Natl Acad Sci U S A* 111:E5455-E5462, 2014.

Roberts KG, Li Y, Payne-Turner D, Harvey RC, Yang YL, Pei D, McCastlain K, Ding L, Lu C, Song G, Ma J, Becksfort J, Rusch M, Chen SC, Easton J, Cheng J, Boggs K, Santiago-Morales N, Iacobucci I, Fulton RS, Wen J, Valentine M, Cheng C, Paugh SW, Devidas M, Chen IM, Reshmi S, Smith A, Hedlund E, Gupta P, Nagahawatte P, Wu G, Chen X, Yergeau D, Vadodaria B, Mulder H, Winick NJ, Larsen EC, Carroll WL, Heerema NA, Carroll AJ, Grayson G, Tasian SK, Moore AS, Keller F, Frei-Jones M, Whitlock JA, Raetz EA, White DL, Hughes TP, Guidry Auvil JM, Smith MA, Marcucci G, Bloomfield CD, Mrozek K, Kohlschmidt J, Stock W, Kornblau SM, Konopleva M, Paietta E, Pui CH, Jeha S, Relling MV, Evans WE, Gerhard DS, Gastier-Foster JM, Mardis E, Wilson RK, Loh ML, Downing JR, Hunger SP, Willman CL, Zhang J, Mullighan CG. Targetable kinase-activating lesions in Ph-like acute lymphoblastic leukemia. *N Engl J Med* 371:1005-1015, 2014.

Takwi AA, Wang YM, Wu J, Michaelis M, Cinatl J, Chen T. miR-137 regulates the constitutive androstane receptor and modulates doxorubicin sensitivity in parental and doxorubicin-resistant neuroblastoma cells. *Oncogene* 33:3717-3729, 2014.

Bettini ML, Guy C, Dash P, Vignali KM, Hamm DE, Dobbins J, Gagnon E, Thomas PG, Wucherpfennig KW, Vignali DA. Membrane association of the CD3 ϵ signaling domain is required for optimal T cell development and function. *J Immunol* 193:258-267, 2014.

Morfouace M, Shelat A, Jacus M, Freeman BB 3rd, Turner D, Robinson S, Zindy F, Wang YD, Finkelstein D, Ayrault O, Bihannic L, Puget S, Li XN, Olson JM, Robinson GW, Guy RK, Stewart CF, Gajjar A, Roussel MF. Pemetrexed and gemcitabine as combination therapy for the treatment of Group3 medulloblastoma. *Cancer Cell* 25:516-529, 2014.

Treanor LM, Zhou S, Janke L, Churchman ML, Ma Z, Lu T, Chen SC, Mullighan CG, Sorrentino BP. Interleukin-7 receptor mutants initiate early T cell precursor leukemia in murine thymocyte progenitors with multipotent potential. *J Exp Med* 211:701-713, 2014.

Seth A, Ye J, Yu N, Guez F, Bedford DC, Neale GA, Cordi S, Brindle PK, Lemaigre FP, Kaestner KH, Sosa-Pineda B. Prox1 ablation in hepatic progenitors causes defective hepatocyte specification and increases biliary cell commitment. *Development* 141:538-547, 2014.

Kasper LH, Fukuyama T, Lerach S, Chang Y, Xu W, Wu S, Boyd KL, Brindle PK. Genetic interaction between mutations in c-Myb and the KIX domains of CBP and p300 affects multiple blood cell lineages and influences both gene activation and repression. *PLoS One* 8:e82684-, 2013.

van der Merwe M, Abdelsamed HA, Seth A, Ong T, Vogel P, Pillai AB. Recipient myeloid-derived immunomodulatory cells induce PD-1 ligand-dependent donor CD4⁺Foxp3⁺ regulatory T cell proliferation and donor-recipient immune tolerance after murine nonmyeloablative bone marrow transplantation. *J Immunol* 191:5764-5776, 2013.

Shah S, Schrader KA, Waanders E, Timms AE, Vijai J, Miething C, Wechsler J, Yang J, Hayes J, Klein RJ, Zhang J, Wei L, Wu G, Rusch M, Nagahawatte P, Ma J, Chen SC, Song GC, Cheng JJ, Meyers P, Bhojwani D, Jhanwar S, Maslak P, Fleisher M, Littman J, Offit L, Rau-Murthy R, Fleischut MH, Corines M, Murali R, Gao XN, Manschreck C, Kitzing T, Murty VV, Raimondi SC, Kuiper RP, Simons A, Schiffman JD, Onel K, Plon SE, Wheeler DA, Ritter D, Ziegler DS, Tucker K, Sutton R, Chenevix-Trench G, Li J, Huntsman DG, Hansford S, Senz J, Walsh T, Lee M, Hahn CN, Roberts KG, King MC, Lo SM, Levine RL, Viale A, Socci ND, Nathanson KL, Scott HS, Daly M, Lipkin SM, Lowe SW, Downing JR, Altshuler D, Sandlund JT, Horwitz MS, Mullighan CG, Offit K. A recurrent germline PAX5 mutation confers susceptibility to pre-B cell acute lymphoblastic leukemia. *Nat Genet* 45:1226-1231, 2013.

Holmfeldt L, Wei L, Diaz-Flores E, Walsh M, Zhang J, Ding L, Payne-Turner D, Churchman M, Andersson A, Chen SC, McCastlain K, Becksfort J, Ma J, Wu G, Patel SN, Heatley SL, Phillips LA, Song G, Easton J, Parker M, Chen X, Rusch M, Boggs K, Vadodaria B, Hedlund E, Drenberg C, Baker S, Pei D, Cheng C, Huether R, Lu C, Fulton RS, Fulton LL, Tabib Y, Dooling DJ, Ochoa K, Minden M, Lewis ID, To LB, Mariton P, Roberts AW, Raca G, Stock W, Neale G, Drexler HG, Dickins RA, Ellison DW, Shurtleff SA, Pui CH, Ribeiro RC, Devidas M, Carroll AJ, Heerema NA, Wood B, Borowitz MJ, Gastier-Foster JM, Raimondi SC, Mardis ER, Wilson RK, Downing JR, Hunger SP, Loh ML, Mullighan CG. The genomic landscape of hypodiploid acute lymphoblastic leukemia. *Nat Genet* 45:242-252, 2013.

Kandilci A, Surtel J, Janke L, Neale G, Terranova S, Grosveld GC. Mapping of MN1 sequences necessary for myeloid transformation. *PLoS One* 8:e61706, 2013.

Gruber TA, Larson Gedman A, Zhang J, Koss CS, Marada S, Ta HQ, Chen SC, Su X, Ogden SK, Dang J, Wu G, Gupta V, Andersson AK, Pounds S, Shi L, Easton J, Barbato MI, Mulder HL, Manne J, Wang J, Rusch M, Ranade S, Ganti R, Parker M, Ma J, Radtke I, Ding L, Cazzaniga G, Biondi A, Kornblau SM, Ravandi F, Kantarjian H, Nimer SD, Dohner K, Dohner H, Ley TJ, Ballerini P, Shurtleff S, Tomizawa D, Adachi S, Hayashi Y, Tawa A, Shih LY, Liang DC, Rubnitz JE, Pui CH, Mardis ER, Wilson RK, Downing JR. An Inv(16)(p13.3q24.3)-encoded CBFA2T3-GLIS2 fusion protein defines an aggressive subtype of pediatric acute megakaryoblastic leukemia. *Cancer Cell* 22:683-697, 2012.

Greene MR, Lockey T, Mehta PK, Kim YS, Eldridge PW, Gray JT, Sorrentino BP. Transduction of human CD34+ repopulating cells with a self-inactivating lentiviral vector for SCID-X1 produced at clinical scale by a stable cell line. *Hum Gene Ther Methods* 23:297-308, 2012.

Roberts KG, Morin RD, Zhang J, Hirst M, Zhao Y, Su X, Chen SC, Payne-Turner D, Churchman ML, Harvey RC, Chen X, Kasap C, Yan C, Becksfort J, Finney RP, Teachey DT, Maude SL, Tse K, Moore R, Jones S, Mungall K, Birol I, Edmonson MN, Hu Y, Buetow KE, Chen IM, Carroll WL, Wei L, Ma J, Kleppe M, Levine RL, Garcia-Manero G, Larsen E, Shah NP, Devidas M, Reaman G, Smith M, Paugh SW, Evans WE, Grupp SA, Jeha S, Pui CH, Gerhard DS, Downing JR, Willman CL, Loh M, Hunger SP, Marra MA, Mullighan CG. Genetic alterations activating kinase and cytokine receptor signaling in high-risk acute lymphoblastic leukemia. *Cancer Cell* 22:153-166, 2012.

Ulrich DL, Lynch J, Wang Y, Fukuda Y, Nachagari D, Du G, Sun D, Fan Y, Tsurkan L, Potter PM, Rehg JE, Schuetz JD. ATP-dependent mitochondrial porphyrin importer ABCB6 protects against phenylhydrazine toxicity. *J Biol Chem* 287:12679-12690, 2012.

Van Stry M, Oguin TH 3rd, Cheloufi S, Vogel P, Watanabe M, Pillai MR, Dash P, Thomas PG, Hannon GJ, Bix M. Enhanced susceptibility of Ago1/3 double-null mice to influenza A virus infection. *J Virol* 86:4151-4157, 2012.

Lebensburger JD, Howard T, Hu Y, Pestina TI, Gao G, Johnson M, Zakharenko SS, Ware RE, Tuomanen EI, Persons DA, Rosch JW. Hydroxyurea therapy of a murine model of sickle cell anemia inhibits the progression of pneumococcal disease by down-modulating E-selectin. *Blood* 119:1915-1921, 2012.

Fatima S, Zhou S, Sorrentino BP. Abcg2 expression marks tissue-specific stem cells in multiple organs in a mouse progeny tracking model. *Stem Cells* 30:210-221, 2012.

Wolkers MC, Gerlach C, Arens R, Janssen EM, Fitzgerald P, Schumacher TN, Medema JP, Green DR, Schoenberger SP. Nab2 regulates secondary CD8(+) T-cell responses through control of TRAIL expression. *Blood* 119:798-804, 2012.

Zhang J, Ding L, Holmfeldt L, Wu G, Heatley SL, Payne-Turner D, Easton J, Chen X, Wang J, Rusch M, Lu C, Chen SC, Wei L, Collins-Underwood JR, Ma J, Roberts KG, Pounds SB, Ulyanov A, Becksfort J, Gupta P, Huether R, Kriwacki RW, Parker M, McGoldrick DJ, Zhao D, Alford D, Espy S, Bobba KC, Song G, Pei D, Cheng C, Roberts S, Barbato MI, Campana D, Coustan-Smith E, Shurtleff SA, Raimondi SC, Kleppe M, Cools J, Shimano KA, Hermiston ML, Doulatov S, Eppert K, Laurenti E, Notta F, Dick JE, Basso G, Hunger SP, Loh ML, Devidas M, Wood B, Winter S, Dunsmore KP, Fulton RS, Fulton LL, Hong X, Harris CC, Dooling DJ, Ochoa K, Johnson KJ, Obenauer JC, Evans WE, Pui CH, Naeve CW, Ley TJ, Mardis ER, Wilson RK, Downing JR, Mullighan CG. The genetic basis of early T-cell precursor acute lymphoblastic leukaemia. *Nature* 481:157-163, 2012.

Zhang J, Benavente CA, McEvoy J, Flores-Otero J, Ding L, Chen X, Ulyanov A, Wu G, Wilson M, Wang J, Brennan R, Rusch M, Manning AL, Ma J, Easton J, Shurtleff S, Mullighan C, Pounds S, Mukatira S, Gupta P, Neale G, Zhao D, Lu C, Fulton RS, Fulton LL, Hong X, Dooling DJ, Ochoa K, Naeve C, Dyson NJ, Mardis ER, Bahrami A, Ellison D, Wilson RK, Downing JR, Dyer MA. A novel retinoblastoma therapy from genomic and epigenetic analyses. *Nature* 481:329-334, 2012.

Campbell PK, Zong Y, Yang S, Zhou S, Rubnitz JE, Sorrentino BP. Identification of a novel, tissue-specific ABCG2 promoter expressed in pediatric acute megakaryoblastic leukemia. *Leuk Res* 35:1321-1329, 2011.

Treanor LM, Volanakis EJ, Zhou S, Lu T, Sherr CJ, Sorrentino BP. Functional interactions between Lmo2, the Arf tumor suppressor, and Notch1 in murine T-cell malignancies. *Blood* 117:5453-5462, 2011.

Picchione F, Pritchard C, Lagutina I, Janke L, Grosveld GC. IRIZIO: a novel gene cooperating with PAX3-FOXO1 in alveolar rhabdomyosarcoma (ARMS). *Carcinogenesis* 32:452-461, 2011.

Wilber A, Hargrove PW, Kim YS, Riberdy JM, Sankaran VG, Papanikolaou E, Georgomanoli M, Anagnou NP, Orkin SH, Nienhuis AW, Persons DA. Therapeutic levels of fetal hemoglobin in erythroid progeny of β -thalassemic CD34(+) cells after lentiviral vector-mediated gene transfer. *Blood* 117:2817-2826, 2011.

Morales-Tirado V, Luszczek W, van der Merwe M, Pillai A. Regulatory immunotherapy in bone marrow transplantation. *ScientificWorldJournal* 11:2620-2634, 2011.

Cam H, Easton JB, High A, Houghton PJ. mTORC1 signaling under hypoxic conditions is controlled by ATM-dependent phosphorylation of HIF-1 α . *Mol Cell* 40:509-520, 2010.

Kasper LH, Lerach S, Wang J, Wu S, Jeevan T, Brindle PK. CBP/p300 double null cells reveal effect of coactivator level and diversity on CREB transactivation. *EMBO J* 29:3660-3672, 2010.

10. Presentations

A. Invited Presentations

“A 39-Color Single-Tube Spectral Flow Cytometry Assay for pediatric T-ALL Measurable Residual Disease (MRD) Monitoring”, 17th Annual Southeast Flow Cytometry Interest Group Meeting, Atlanta, GA, March 2026.

“Biology Before Gating- Knowing Normal to Find the Abnormal and Maximize Spectral Cytometry for T-ALL MRD monitoring”, 19th Annual FlowTex Conference, Houston, TX, February 2026.

Panelists, "Core Connections: Leveraging Facility Partnerships to Transform Research into Patient Care", 12th Annual SEASR meeting, Tampa, FL, June 2025.

Workshop: Global Perspectives on Addressing and Negotiating Flow Cytometry Service Contracts: A Collaborative Approach, CYTO Annual Meeting, Denver, CO, June 2025.

Beyond Acquisition: Choosing the Right Software for Your Cytometry Workflow, Beckman Coulter User Group Meeting, Tampa, FL, April 2025.

From Excitation to Implementation: Practical Considerations for Full-Spectrum Flow in the Clinic, Beckman Coulter User Group Meeting, Tampa, FL, April 2025.

B. Oral Presentations

Stacie N. Woolard. *Phosphoflow – Before and After: Standardization, Validation, and Analysis*. St. Jude Children’s Research Hospital. 2011.

Stacie N. Woolard and Asha Pillai. *Expanded iNKT Cells for in vivo Immunotherapy*. Bone-Marrow Transplant and Cellular Therapy Quarterly Meeting. 2010

Stacie N. Woolard, Subhadra Nandakumar, and Uday Kumaraguru. *Dendritic Cell and Natural Killer Cell Interaction in Herpes Viral Infection: Exploring Mechanisms of Induction*. 2009 St. Jude National Graduate Student Symposium.

Stacie N. Woolard, Subhadra Nandakumar and Uday Kumaraguru. *Reprogramming of the Immune Response in Latent HSV Infection*. Appalachian Student Research Forum. 2009. (2nd Place in Oral Presentation)

Subhadra Nandakumar, Stacie Woolard and Uday Kumaraguru. *Molecular Link between Toll like Receptors, obesity and Risk of cancer*. Appalachian Student Research Forum. 2008. (1st Place in Oral Presentation)

Stacie N. Woolard, Subhadra Nandakumar, and Uday Kumaraguru. *Up-regulating death receptor 5 via tunicamycin administration increases anti-HSV immune response*. Appalachian Student Research Forum. 2008. (3rd Place in Oral Presentation)

Stacie N. Woolard, Subhadra Nandakumar, Yagita H and Uday Kumaraguru. *Involvement of TNF receptor apoptosis inducing ligand (trail) in NK cell mediated anti-HSV adaptive immune response*. Appalachian Student Research Forum. 2007 (1st Place in Oral Presentation)

C. Poster Presentations

U. Kumaraguru, S. Schoenberger, H. Yagita, Stacie. N. Woolard Involvement of NK-TRAIL in inter-DC antigen transfer and cross-priming after HSV infection. International Congress of Immunology, Kobe, Japan, 2010

Stacie N. Woolard, Subhadra Nandakumar, and Uday Kumaraguru. Dendritic Cell and Natural Killer Cell *Interaction in Herpes Viral Infection: Exploring Mechanisms of Induction*. 2009 St. Jude National Graduate Student Symposium.

Subhadra Nandakumar, Stacie Woolard and Uday Kumaraguru. *Immuno-modulation of Senescent HSV-specific CD8⁺ T cells*. Appalachian Student Research Forum. 2009.

Stacie N. Woolard, Subhadra Nandakumar, Evelyn Kurt-Jones, and Uday Kumaraguru. *Toll-like Receptor modulation of Dendritic cell: Natural killer cell interaction*. Appalachian Student Research Forum. 2008. (2nd Place in Poster Presentation)

Uday Kumaraguru, Stacie Woolard and Subhadra Nandakumar. *The missing link in the transfer of antigen between the dendritic cells after HSV infection*. The FASEB Journal. 2008;22:856.2.

Stacie N. Woolard, Subhadra Nandakumar, Evelyn Kurt-Jones and Uday Kumaraguru. *Increased NK-DC co-operation and resulting adaptive immune response after HSV infection involves TLR signaling*. The FASEB Journal. 2008;22:672.45

Uday Kumaraguru, Stacie N. Woolard and Subhadra Nandakumar. *Timing, dose and combination impact immune memory recall with TLR ligands*. 94th Annual Meeting of the American Association of Immunologists. 2007

Stacie N. Woolard, Divya Gopalan*, and Uday Kumaraguru. *Implication of Natural Killer cell – Dendritic Cell cooperation in anti-viral response*. Molecular Medicine Seminar: Bench to Bedside. 2006. (1st Place in Research Poster Presentation) * School of Medicine, St. George's University, Grenada, West Indies.

D. Abstracts

Meenakshi Tiwary, Kim Lemessurier, Stacie Woolard, and Amali E. Samarasinghe. *Antibacterial Functions of Eosinophils: Old dog with new tricks*. 18th International Congress of Immunology. 2023.

Amali E. Samarasinghe, Stacie Woolard, and Jonathan A. McCullers. *Influenza virus infection during acute or chronic allergic asthma alters immune phenotypes and disease outcome*. Pediatric Infectious Disease Conference. 2012

Amali E. Samarasinghe, Stacie Woolard, and Jonathan A. McCullers. *Timing of influenza virus infection during allergic airway disease progression alters the immune phenotype and disease outcome*. American Thoracic Society Conference. 2012

Luszczek, W., Morales-Tirado, V. Woolard, S. N., Van Der Merwe, M. Shook, D. Campana, D., and Pillai, A. *Expanded Human iNKT Cells Exhibit TH2 Polarization and Direct Cytotoxicity against Hematolymphoid Tumor Targets*. Biology of Blood and Marrow Transplantation. 2010.

Stacie N. Woolard, Vanessa Morales-Tirado, and Asha Pillai; *Expanded iNKT Cells exhibit Th2 polarization phenotype and retain cytotoxic function*. American Society of Hematology. 2009.

Subhadra Nandakumar, Stacie Woolard and Uday Kumaraguru. *Immuno-modulation of Senescent HSV-specific CD8⁺ T cells*. Appalachian Student Research Forum. 2009

Uday Kumaraguru, Stacie Woolard and Subhadra Nandakumar. *The missing link in the transfer of antigen between the dendritic cells after HSV infection*. The FASEB Journal. 2008;22:856.2.

Stacie N. Woolard, Subhadra Nandakumar, Evelyn Kurt-Jones and Uday Kumaraguru. *Increased NK-DC co-operation and resulting adaptive immune response after HSV infection involves TLR signaling*. The FASEB Journal. 2008;22:672.45

Uday Kumaraguru, Stacie N. Woolard and Subhadra Nandakumar. *Timing, dose and combination impact immune memory recall with TLR ligands*. 94th Annual Meeting of the American Association of Immunologists. 2007

11. Other Creative Products

Collaborated with Research Information Services to design and develop a Shared Resources Management 2 (SRM2) system of service request for the FCCSSR and quarterly FlowJo billing for institute's site license.

Developed an SRM2 departmental guide for entering chargebacks for lab operations and a guide for the FCCSSR chargeback billing.

Worked with members of the FCCSSR staff to develop an in-house BD FACS Aria/Fusion sorter training guide for new sort operators and a departmental BD FACS Melody sorter training guide to be used by end users for independent use.

Assisted in the development a departmental training guide for use of conventional analyzers, which, to date, has been used to train over 500 end users.

12. Continuing Education/Conferences

- 11th Annual Southeastern Association of Shared Resources, Nashville, TN. 2024
- CYTO 2024, 36th Congress of the International Society for Advancement of Cytometry, Edinburgh, Scotland.
- 15th Annual Southeast Flow Cytometry Interest Group, Memphis, TN. 2024
- 10th Annual Southeastern Association of Shared Resources, Emory, GA. 2023
- CYTO 2023, 35th Congress of the International Society for Advancement of Cytometry, Montreal, Canada.
- 14th Annual Southeast Flow Cytometry Interest Group, Miami, FL. 2023
- CYTO 2022, 34th Congress of the International Society for Advancement of Cytometry, Philadelphia, PA.
- Cytek Aurora and Northern Lights User Group Virtual Meeting, April 2021
- CYTO 2019, 34th Congress of the International Society for Advancement of Cytometry, Vancouver, Canada.
- 6th Annual Southeast Flow Cytometry Interest Group, Emory University and Children's Pediatric Research Flow Cytometry Core Facility, Atlanta. 2015.
- 4th Annual Southeast Flow Cytometry Interest Group, University of North Carolina, Chapel Hill. 2013.

17. Continuing Management Training and Education

- St. Jude Bias Awareness and Action Training March 2021
- Leadership Academy Manager/Supervisor Core Wave June 2021
- Completed Electives:
 - The Five choices of Extraordinary Productivity
 - Leader Growth Plan Booster Session
 - Multipliers: How the best leaders make everyone smarter
 - Situational Leadership
 - Performance Management: Receiving Feedback
 - Bias Awareness & Action Series
 - HR Systems and Processes for New Managers
 - Setting Performance Expectations for Individual Contributors
 - L.E.A.D 2021/2022
 - Leading at the Speed of Trust
 - Leading the St. Jude Way

- Project Management Essentials
- Role in Strategic Planning

Complete List of Published Work in PubMed:

<https://www.ncbi.nlm.nih.gov/myncbi/stacie.woolard.1/bibliography/public/>

References available upon request