

## List of Publications (2016-2022)

We ask researchers to acknowledge the Leukemia Tissue Bank at Princess Margaret Cancer Centre/ University Health Network as the source for primary AML samples and clinical data in publications.

**PRMT5 regulates ATF4 transcript splicing and oxidative stress response.** Szewczyk MM, Luciani GM, Vu V, Murison A, Dilworth D, Barghout SH, Lupien M, Arrowsmith CH, Minden MD, Barsyte-Lovejoy D. *Redox Biol.* 2022 May;51:102282.

**Identification of the global miR-130a targetome reveals a role for TBL1XR1 in hematopoietic stem cell self-renewal and t(8;21)** AML. Krivdova G, Voisin V, Schoof EM, Marhon SA, Murison A, McLeod JL, Gabra MM, Zeng AGX, Aigner S, Yee BA, Shishkin AA, Van Nostrand EL, Hermans KG, Trotman-Grant AC, Mbong N, Kennedy JA, Gan OI, Wagenblast E, De Carvalho DD, Salmena L, Minden MD, Bader GD, Yeo GW, Dick JE, Lechman ER. *Cell Rep.* 2022 Mar 8;38(10):110481.

**Avocado-derived avocadyne is a potent inhibitor of fatty acid oxidation.** Tcheng M, Minden MD, Spagnuolo PA. *J Food Biochem.* 2022 Mar;46(3):e13895

**Pseudo-mutant P53 is a unique phenotype of DNMT3A-mutated pre-leukemia.** Tuval A, Brilon Y, Azogy H, Moskovitz Y, Leshkowitz D, Salame TM, Minden MD, Tal P, Rotter V, Oren M, Kaushansky N, Shlush LI. *Haematologica.* 2022 Feb 24. doi: 10.3324/haematol.2021.280329.

**Macrophage Jak2 deficiency accelerates atherosclerosis through defects in cholesterol efflux.** Dotan I, Yang J, Ikeda J, Roth Z, Pollock-Tahiri E, Desai H, Sivasubramaniyam T, Rehal S, Rapps J, Li YZ, Le H, Farber G, Alchami E, Xiao C, Karim S, Gronda M, Saikali MF, Tirosh A, Wagner KU, Genest J, Schimmer AD, Gupta V, Minden MD, Cummins CL, Lewis GF, Robbins C, Jongstra-Bilen J, Cybulsky M, Woo M. *Commun Biol.* 2022 Feb 15;5(1):132.

**SmMIP-tools: a computational toolset for processing and analysis of single-molecule molecular inversion probes derived data.** Medeiros JFF, Capo-Chichi JM, Shlush LI, Dick JE, Arruda A, Minden MD, Abelson S. *Bioinformatics.* 2022 Feb 12;38(8):2088-95.

**IPO11 regulates the nuclear import of BZW1/2 and is necessary for AML cells and stem cells.** Nachmias B, Khan DH, Voisin V, Mer AS, Thomas GE, Segev N, St-Germain J, Hurren R, Gronda M, Botham A, Wang X, Maclean N, Seneviratne AK, Duong N, Xu C, Arruda A, Orouji E, Algouneh A, Hakem R, Shlush L, Minden MD, Raught B, Bader GD, Schimmer AD. *Leukemia.* 2022 Feb 12.

**A clinical laboratory-developed LSC17 stemness score assay for rapid risk assessment of patients with acute myeloid leukemia.** Ng SWK, Murphy T, King I, Zhang T, Mah M, Lu Z, Stickle N, Ibrahimova N, Arruda A, Mitchell A, Mai M, He R, Madala BS, Viswanatha DS, Dick JE, Chan S, Virtanen C, Minden MD, Mercer T, Stockley T, Wang JCY. *Blood Adv.* 2022 Feb 8;6(3):1064-1073.

**An improved molecular inversion probe based targeted sequencing approach for low variant allele frequency.** Biezuner T, Brilon Y, Arye AB, Oron B, Kadam A, Danin A, Furer N, Minden MD, Hwan Kim DD, Shapira S, Arber N, Dick J, Thavendiranathan P, Moskovitz Y, Kaushansky N, Chapal-Ilani N, Shlush LI. *NAR Genom Bioinform.* 2022 Feb 8;4(1):lqab125.

**Multiomic Profiling of Central Nervous System Leukemia Identifies mRNA Translation as a Therapeutic Target.** Vanner RJ, Dobson SM, Gan OI, McLeod J, Schoof EM, Grandal I, Wintersinger JA, Garcia-Prat L, Hosseini M, Xie SZ, Jin L, Mbong N, Voisin V, Chan-Seng-Yue M, Kennedy JA, Waanders E, Morris Q, Porse B, Chan SM, Guidos CJ, Danska JS, Minden MD, Mullighan CG, Dick JE. *Blood Cancer Discov.* 2022 Jan;3(1):16-31.

**TET2 mutations as a part of DNA dioxygenase deficiency in myelodysplastic syndromes.** Gurnari C, Pagliuca S, Guan Y, Adema V, Hershberger CE, Ni Y, Awada H, Kongkiatkamon S, Zawit M, Coutinho DF, Zalcborg IR, Ahn JS, Kim HJ, Kim DDH, Minden MD, Jansen JH, Meggendorfer M, Haferlach C, Jha BK, Haferlach T, Maciejewski JP, Visconte V. *Blood Adv.* 2022 Jan 11;6(1):100-107.

**Novel Mango Ginger Bioactive (2,4,6-Trihydroxy-3,5-diprenyldihydrochalcone) Inhibits Mitochondrial Metabolism in Combination with Avocatin B.** Jayasankar V, Vrdoljak N, Roma A, Ahmed N, Tchong M, Minden MD, Spagnuolo PA. *ACS Omega.* 2022 Jan 7;7(2):1682-1693.

**Targeted blockade of immune mechanisms inhibit B precursor acute lymphoblastic leukemia cell invasion of the central nervous system.** Rajakumar SA, Grandal I, Minden MD, Hitzler JK, Guidos CJ, Danska JS. *Cell Rep Med.* 2021 Dec 21;2(12):100470.

**Statins Enhance the Molecular Response in Chronic Myeloid Leukemia when Combined with Tyrosine Kinase Inhibitors.** Jang HJ, Woo YM, Naka K, Park JH, Han HJ, Kim HJ, Kim SH, Ahn JS, Kim T, Kimura S, Zarabi S, Lipton JH, Minden MD, Jung CW, Kim HJ, Kim JW, Kim DDH. *Cancers (Basel).* 2021 Nov 4;13(21):5543.

**Enhancing Therapeutic Efficacy of Double Negative T Cells against Acute Myeloid Leukemia Using Idelalisib.** Kang H, Lee JB, Khatri I, Na Y, D'Souza C, Arruda A, Minden MD, Zhang L. *Cancers (Basel).* 2021 Oct 9;13(20):5039.

**Nicotinamide phosphoribosyltransferase inhibitors selectively induce apoptosis of AML stem cells by disrupting lipid homeostasis.** Subedi A, Liu Q, Ayyathan DM, Sharon D, Cathelin S, Hosseini M, Xu C, Voisin V, Bader GD, D'Alessandro A, Lechman ER, Dick JE, Minden MD, Wang JCY, Chan SM. *Cell Stem Cell.* 2021 Oct 7;28(10):1851-1867.e8. doi: 10.1016/j.stem.2021.06.004.

**TET2 and DNMT3A Mutations Exert Divergent Effects on DNA Repair and Sensitivity of Leukemia Cells to PARP Inhibitors.** Maifrede S, Le BV, Nieborowska-Skorska M, Golovine K, Sullivan-Reed K, Dunuwille WMB, Nacson J, Hulse M, Keith K, Madzo J, Caruso LB, Gazze Z, Lian Z, Padella A, Chitralla KN, Bartholdy BA, Matlawska-Wasowska K, Di Marcantonio D, Simonetti G, Greiner G, Sykes SM, Valent P, Paietta EM, Tallman MS, Fernandez HF, Litzow MR, Minden MD, Huang J, Martinelli G, Vassiliou GS, Tempera I, Piwocka K, Johnson N, Challen GA, Skorski T. *Cancer Res.* 2021 Oct 1;81(19):5089-5101.

**The PKN1- TRAF1 signaling axis as a potential new target for chronic lymphocytic leukemia.** Edilova MI, Law JC, Zangiabadi S, Ting K, Mbanwi AN, Arruda A, Uehling D, Isaac M, Prakesch M, Al-Awar R, Minden MD, Abdul-Sater AA, Watts TH. *Oncoimmunology.* 2021 Sep 23;10(1):1943234.

**Prognostic impact of the adverse molecular-genetic profile on long-term outcomes following allogeneic hematopoietic stem cell transplantation in acute myeloid leukemia.** Daher-Reyes G, Kim T, Novitzky-Basso I, Kim KH, Smith A, Stockley T, Capochichi JM, Al-Shaibani Z, Pasic I, Law A, Lam W, Michelis FV, Gerbitz A, Viswabandya A, Lipton J, Kumar R, Mattsson J, Schimmer A, McNamara C, Murphy T, Maze D, Gupta V, Sibai H, Chan S, Yee K, Minden M, Zhang Z, Schuh A, Kim DDH. *Bone Marrow Transplant.* 2021 Aug;56(8):1908-1918.

**Venetoclax enhances T cell-mediated antileukemic activity by increasing ROS production.** Lee JB, Khan DH, Hurren R, Xu M, Na Y, Kang H, Mirali S, Wang X, Gronda M, Jitkova Y, MacLean N, Arruda A, Alaniz Z, Konopleva MY, Andreeff M, Minden MD, Zhang L, Schimmer AD. *Blood.* 2021 Jul 22;138(3):234-245.

**Structure-activity relationship of avocadyne.** Tchong M, Cunha VLS, Ahmed N, Liu X, Smith RW, Rea KA, Akhtar TA, D'Alessandro A, Minden MD, Vockley J, O'Doherty GA, Lowary TL, Spagnuolo PA. *Food Funct.* 2021 Jul 21;12(14):6323-6333.

**The genomic and biological complexity of mixed phenotype acute leukemia.** Andrews C, Tierens A, Minden M. *Crit Rev Clin Lab Sci.* 2021 May;58(3):153-166.

**Recurrent deletions in clonal hematopoiesis are driven by microhomology-mediated end joining.** Feldman T, Bercovich A, Moskovitz Y, Chapal-Ilani N, Mitchell A, Medeiros JF, Biezuner T, Kaushansky N, Minden MD, Gupta V, Milyavsky M, Livneh Z, Tanay A, Shlush LI. *Nat Commun.* 2021 Apr 28;12(1):2455.

**Very long chain fatty acid metabolism is required in acute myeloid leukemia.** Tcheng M, Roma A, Ahmed N, Smith RW, Jayanth P, Minden MD, Schimmer AD, Hess DA, Hope K, Rea KA, Akhtar T, Bohrsen E, D'Alessandro A, Mohsen AW, Vockley J, Spagnuolo PA. *Blood.* 2021 Mar 15;blood.2020008551.

**Loss of expression of both miR-15/16 loci in CML transition to blast crisis.** Lovat F, Gasparini P, Nigita G, Larkin K, Byrd JC, Minden MD, Andreeff M, Carter BZ, Croce CM. *Proc Natl Acad Sci U S A.* 2021 Mar 16;118(11):e2101566118.

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**A genome-wide CRISPR/Cas9 screen in acute myeloid leukemia cells identifies regulators of TAK-243 sensitivity.** Barghout SH, Aman A, Nouri K, Blatman Z, Arevalo K, Thomas GE, MacLean N, Hurren R, Ketela T, Saini M, Abohawya M, Kiyota T, Al-Awar R, Schimmer AD. *JCI Insight.* 2021 Mar 8;6(5):e141518.

**Venetoclax enhances T cell-mediated anti-leukemic activity by increasing ROS production.** Lee J, Khan DH, Hurren R, Xu M, Na Y, Kang H, Mirali S, Wang X, Gronda MV, Jitkova Y, MacLean N, Arruda A, Alaniz Z, Konopleva MY, Andreeff M, Minden MD, Zhang L, Schimmer AD. *Blood.* 2021 Mar 16;blood.2020009081.

**Biological and therapeutic implications of a unique subtype of NPM1 mutated AML.** Mer AS, Heath EM, Madani Tonekaboni SA, Dogan-Artun N, Nair SK, Murison A, Garcia-Prat L, Shlush L, Hurren R, Voisin V, Bader GD, Nislow C, Rantalainen M, Lehmann S, Gower M, Guidos CJ, Lupien M, Dick JE, Minden MD, Schimmer AD, Haibe-Kains B. *Nat Commun.* 2021 Feb 16;12(1):1054.

**Novel L-nucleoside analogue, 5-fluorotroxacitabine, displays potent efficacy against acute myeloid leukemia.** Bankar A, Siriwardena TP, Rzoska B, Rydergård C, Kylefjord H, Rakilli V, Eneroth A, Pinho P, Norin S, Bylund J, Moses S, Bethell R, Kavanagh S, Maclean N, Gronda M, Wang X, Hurren R, Minden MD, Targett-Adams P, Schimmer AD, Albertella M. *Haematologica.* 2021 Feb 1;106(2):574-579.

**Measurable residual disease monitoring provides insufficient lead-time to prevent morphologic relapse in the majority of patients with core-binding factor acute myeloid leukemia.** Puckrin R, Atenafu EG, Claudio JO, Chan S, Gupta V, Maze D, McNamara C, Murphy T, Shuh AC, Yee K, Sibai H, Minden MD, Wei C, Stockley T, Kamel-Reid S, Schimmer AD. *Haematologica.* 2021 Jan 1;106(1):56-63.

**Systemic mastocytosis with acute myeloid leukemia occurs from mutually exclusive clones expressing KITD816V and FLT3-ITD.** Capo-Chichi JM, Kagotho E, Nayyar R, Zhao D, Minden M, Chang H. *Leukemia.* 2021 Jan;35(1):282-285.

**SIRP $\alpha$ Fc treatment targets human acute myeloid leukemia stem cells.** Galkin O, McLeod J, Kennedy JA, Jin L, Mbong N, Wong M, Uger RA, Minden MD, Danska JS, Wang JCY. *Haematologica.* 2021 Jan 1;106(1):279-283.

**Sphingosine-1-phosphate receptor 3 potentiates inflammatory programs in normal and leukemia stem cells to promote differentiation.** Xie SZ, Kaufmann KB, Wang W, Chan-Seng-Yue M, Gan OI, Laurenti E, Garcia-Prat L, Takayanagi SI, Ng SWK, Xu C, Zeng AGX, Jin L, McLeod J, Wagenblast E, Mitchell

A, Kennedy JA, Liu Q, Boutzen H, Kleinau M, Jargstorf J, Holmes G, Zhang Y, Voisin V, Bader GD, Wang JCY, Hannun YA, Luberto C, Schroeder T, Minden MD, Dick JE. *Blood Cancer Discov.* 2021 Jan 1;2(1):32-53.

**Dasatinib response in acute myeloid leukemia is correlated with FLT3/ITD, PTPN11 mutations and a unique gene expression signature.** Tavor S, Shalit T, Chapal Ilani N, Moskovitz Y, Livnat N, Groner Y, Barr H, Minden MD, Plotnikov A, Deininger MW, Kaushansky N, Shlush LI. *Haematologica.* 2020 Dec 1;105(12):2795-2804.

**CRISPR screen identifies genes that sensitize AML cells to double negative T cell therapy.** Soares F, Chen B, Lee JB, Ahmed M, Ly D, Tin E, Kang H, Zeng Y, Akhtar N, Minden MD, He H, Zhang L. *Blood.* 2020 Dec 3:blood.2019004108.

**Mutational and functional genetics mapping of chemotherapy resistance mechanisms in relapsed acute lymphoblastic leukemia.** Oshima K, Zhao J, Pérez-Durán P, Brown JA, Patiño-Galindo JA, Chu T, Quinn A, Gunning T, Belver L, Ambesi-Impiombato A, Tosello V, Wang Z, Sulis ML, Kato M, Koh K, Paganin M, Basso G, Balbin M, Nicolas C, Gastier-Foster JM, Devidas M, Loh ML, Paietta E, Tallman MS, Rowe JM, Litzow M, Minden MD, Meijerink J, Rabadan R, Ferrando A. *Nat Cancer.* 2020 Nov;1(11):1113-1127.

**Combination of FLT3-ITD Allelic Ratio, NPM1 Mutation, and Immunophenotypic Markers to Modulate Outcome Prediction in Patients with Normal Karyotype Acute Myelogenous Leukemia Undergoing Hematopoietic Stem Cell Transplantation.** Jiang G, Capo-Chichi JM, Liu A, Atenafu EG, Kumar R, Minden MD, Chang H. *Biol Blood Marrow Transplant.* 2020 Nov;26(11):1995-2000.

**Entospletinib in Combination with Induction Chemotherapy in Previously Untreated Acute Myeloid Leukemia: Response and Predictive Significance of HOXA9 and MEIS1 Expression.** Walker AR, Byrd JC, Blachly JS, Bhatnagar B, Mims AS, Orwick S, Lin TL, Crosswell HE, Zhang D, Minden MD, Munugalavadla V, Long L, Liu J, Pan Y, Oellerich T, Serve H, Rao AV, Blum WG. *Clin Cancer Res.* 2020 Nov 15;26(22):5852-5859.

**CD200 expression marks leukemia stem cells in human AML.** Ho JM, Dobson SM, Voisin V, McLeod J, Kennedy JA, Mitchell A, Jin L, Eppert K, Bader G, Minden MD, Dick JE, Wang JCY. *Blood Adv.* 2020 Nov 10;4(21):5402-5413.

**CC-90009, a novel cereblon E3 ligase modulator targets acute myeloid leukemia blasts and leukemia stem cells.** Surka C, Jin L, Mbong N, Lu CC, Jang IS, Rychak E, Mendy D, Clayton T, Tindall EA, Hsu C, Fontanillo C, Tran E, Contreras A, Ng SW, Matyskiela ME, Wang K, Chamberlain PP, Cathers B, Carmichael J, Hansen JD, Wang JCY, Minden MD, Fan J, Pierce DW, Pourdehnad M, Rolfe M, Lopez-Girona A, Dick JE, Lu G. *Blood.* 2020 Nov 16:blood.2020008676

**B cell acute lymphoblastic leukemia cells mediate RANK-RANKL-dependent bone destruction.** Rajakumar SA, Papp E, Lee KK, Grandal I, Merico D, Liu CC, Allo B, Zhang L, Grynepas MD, Minden MD, Hitzler JK, Guidos CJ, Danska JS. *Sci Transl Med.* 2020 Sep 16;12(561):eba5942.

**Cyclic AMP-hydrolyzing phosphodiesterase inhibitors potentiate statin-induced cancer cell death.** Longo J, Pandya AA, Stachura P, Minden MD, Schimmer AD, Penn LZ. *Mol Oncol.* 2020 Aug 4;14(10):2533-45.

**Disrupting Mitochondrial Copper Distribution Inhibits Leukemic Stem Cell Self-Renewal.** Singh RP, Jeyaraju DV, Voisin V, Hurren R, Xu C, Hawley JR, Barghout SH, Khan DH, Gronda M, Wang X, Jitkova Y, Sharon D, Liyanagae S, MacLean N, Seneviratene AK, Mirali S, Borenstein A, Thomas GE, Soriano J, Orouji E, Minden MD, Arruda A, Chan SM, Bader GD, Lupien M, Schimmer AD. *Cell Stem Cell.* 2020 Jun 4;26(6):926-937.e10.

**Combined loss of function of two different loci of miR-15/16 drives the pathogenesis of acute myeloid leukemia.** Lovat F, Nigita G, Distefano R, Nakamura T, Gasparini P, Tomasello L, Fadda P, Ibrahimova N, Catricalà S, Palamarchuk A, Caligiuri MA, Galli A, Malcovati L, Minden MD, Croce CM. *Proc Natl Acad Sci U S A*. 2020 Jun 2;117(22):12332-12340.

**Mitochondrial carrier homolog 2 is necessary for AML survival.** Khan DH, Mullokandov M, Wu Y, Voisin V, Gronda M, Hurren R, Wang X, MacLean N, Jeyaraju DV, Jitkova Y, Xu GW, Laister R, Seneviratne A, Blatman ZM, Ketela T, Bader GD, Marhon SA, De Carvalho DD, Minden MD, Gross A, Schimmer AD. *Blood*. 2020 Jul 2;136(1):81-92.

**Immune landscapes predict chemotherapy resistance and immunotherapy response in acute myeloid leukemia.** Vadakekolathu J, Minden MD, Hood T, Church SE, Reeder S, Altmann H, Sullivan AH, Viboch EJ, Patel T, Ibrahimova N, Warren SE, Arruda A, Liang Y, Smith TH, Foulds GA, Bailey MD, Gowen-MacDonald J, Muth J, Schmitz M, Cesano A, Pockley AG, Valk PJM, Löwenberg B, Bornhäuser M, Tasian SK, Rettig MP, Davidson-Moncada JK, DiPersio JF, Rutella S. *Sci Transl Med*. 2020 Jun 3;12(546):eaaz0463.

**NPM1c impedes CTCF functions through cytoplasmic mislocalization in acute myeloid leukemia.** Wang AJ, Han Y, Jia N, Chen P, Minden MD. *Leukemia*. 2020 May;34(5):1278-1290. doi: 10.1038/s41375-019-0681-8.

**Dasatinib response in acute myeloid leukemia is correlated with FLT3/ITD, PTPN11 mutations and a unique gene expression signature.** Tavor S, Shalit T, Chapal Ilani N, Moskovitz Y, Livnat N, Groner Y, Barr H, Minden MD, Plotnikov A, Deininger MW, Kaushansky N, Shlush LI. *Haematologica*. 2020 May 7;haematol.2019.240705.

**The mitochondrial peptidase, neurolysin, regulates respiratory chain supercomplex formation and is necessary for AML viability.** Mirali S, Botham A, Voisin V, Xu C, St-Germain J, Sharon D, Hoff FW, Qiu Y, Hurren R, Gronda M, Jitkova Y, Nachmias B, MacLean N, Wang X, Arruda A, Minden MD, Horton TM, Kornblau SM, Chan SM, Bader GD, Raught B, Schimmer AD. *Sci Transl Med*. 2020 Apr 8;12(538):eaaz8264.

**Relapse-Fated Latent Diagnosis Subclones in Acute B Lineage Leukemia Are Drug Tolerant and Possess Distinct Metabolic Programs.** Dobson SM, García-Prat L, Vanner RJ, Wintersinger J, Waanders E, Gu Z, McLeod J, Gan OI, Grandal I, Payne-Turner D, Edmonson MN, Ma X, Fan Y, Voisin V, Chan-Seng-Yue M, Xie SZ, Hosseini M, Abelson S, Gupta P, Rusch M, Shao Y, Olsen SR, Neale G, Chan SM, Bader G, Easton J, Gidos CJ, Danska JS, Zhang J, Minden MD, Morris Q, Mullighan CG, Dick JE. *Cancer Discov*. 2020 Apr;10(4):568-587.

**Opposing effects of NPM1wt and NPM1c mutants on AKT signaling in AML.** Ren Z, Shrestha M, Sakamoto T, Melkman T, Meng L, Cairns RA, Zacksenhaus E, Mak TW, Stambolic V, Minden MD, Wang JA. *Leukemia*. 2020 Apr;34(4):1172-1176.

**SIRP $\alpha$ Fc treatment targets human acute myeloid leukemia stem cells.** Galkin O, McLeod J, Kennedy JA, Jin L, Mbong N, Wong M, Uger RA, Minden MD, Danska JS, Wang JCY. *Haematologica*. 2020 Feb 13;haematol.2019.245167.

**Cryptic genomic lesions in adverse-risk acute myeloid leukemia identified by integrated whole genome and transcriptome sequencing.** Kim JC, Zuzarte PC, Murphy T, Chan-Seng-Yue M, Brown AMK, Krzyzanowski PM, Smith AC, Notta F, Minden MD, McPherson JD. *Leukemia*. 2020 Jan;34(1):306-311.

**Anti-leukemia effect of vitamin K3 is mediated through mitochondrial complexes I and II.** Ibrahim M, Mendis N, Roma A, Jayanth P, Minden MD, Spagnuolo PA. *Leuk Lymphoma*. 2019 Dec;60(12):3071-3074.

**The novel L-nucleoside analogue, 5-Fluorotroxacitabine, displays potent efficacy against acute myeloid leukemia.** Bankar A, Siriwardena TP, Rizoska B, Rydergård C, Kylefjord H, Rraklli V, Eneroth A, Pinho P, Norin S, Bylund J, Moses S, Bethell R, Kavanagh S, Maclean N, Gronda M, Wang X, Hurren R, Minden MD, Targett-Adams P, Schimmer AD, Albertella M. *Haematologica*. 2019 Dec 19;haematol.2019.226795.

**Diminished AHR Signaling Drives Human Acute Myeloid Leukemia Stem Cell Maintenance.** Ly M, Rentas S, Vujovic A, Wong N, Moreira S, Xu J, Holzapfel N, Bhatia S, Tran D, Minden MD, Draper JS, Hope KJ. *Cancer Res*. 2019 Nov 15;79(22):5799-5811.

**Impact of preleukemic mutations and their persistence on hematologic recovery after induction chemotherapy for AML.** Murphy T, Zou J, Daher-Reyes GS, Arruda A, Gupta V, McNamara CJ, Minden MD, Schimmer AD, Sibai H, Yee KWL, Korulla M, Stockley T, Kamel-Reid S, Maze D, Tierens A, Bratman SV, Schuh AC, Chan SM. 2019 *Blood Adv*. 3(15):2307-2311.

**Sphingolipid Modulation Activates Proteostasis Programs to Govern Human Hematopoietic Stem Cell Self-Renewal.** Xie SZ, Garcia-Prat L, Voisin V, Ferrari R, Gan OI, Wagenblast E, Kaufmann KB, Zeng AGX, Takayanagi SI, Patel I, Lee EK, Jargstorf J, Holmes G, Romm G, Pan K, Shoong M, VEDI A, Luberto C, Minden MD, Bader GD, Laurenti E, Dick JE. *Cell Stem Cell*. 2019 Nov 7;25(5):639-653.e7.

**Therapeutic Targeting of RNA Splicing Catalysis through Inhibition of Protein Arginine Methylation.** Fong JY, Pignata L, Goy PA, Kawabata KC, Lee SC, Koh CM, Musiani D, Massignani E, Kotini AG, Penson A, Wun CM, Shen Y, Schwarz M, Low DH, Rialdi A, Ki M, Wollmann H, Mzoughi S, Gay F, Thompson C, Hart T, Barbash O, Luciani GM, Szewczyk MM, Wouters BJ, Delwel R, Papapetrou EP, Baryte-Lovejoy D, Arrowsmith CH, Minden MD, Jin J, Melnick A, Bonaldi T, Abdel-Wahab O, Guccione E. *Cancer Cell*. 2019 Aug 12;36(2):194-209.e9.

**Impact of High-Molecular-Risk Mutations on Transplantation Outcomes in Patients with Myelofibrosis.** Tamari R, Rapaport F, Zhang N, McNamara C, Kuykendall A, Sallman DA, Komrokji R, Arruda A, Najfeld V, Sandy L, Medina J, Litvin R, Famulare CA, Patel MA, Maloy M, Castro-Malaspina H, Giralt SA, Weinberg RS, Mascarenhas JO, Mesa R, Rondelli D, Dueck AC, Levine RL, Gupta V, Hoffman R, Rampal RK. *Biol Blood Marrow Transplant*. 2019 Jun;25(6):1142-1151.

**Mutant H3 histones drive human pre-leukemic hematopoietic stem cell expansion and promote leukemic aggressiveness.** Boileau M, Shirinian M, Gayden T, Harutyunyan AS, Chen CCL, Mikael LG, Duncan HM, Neumann AL, Arreba-Tutusa P, De Jay N, Zeinieh M, Rossokhata K, Zhang Y, Nikbakht H, Mouawad C, Massoud R, Frey F, Nasr R, El Cheikh J, El Sabban M, Kleinman CL, Mahfouz R, Minden MD, Jabado N, Bazarbachi A, Eppert K. *Nat Commun*. 2019 Jun 28;10(1):2891.

**The Mitochondrial Transacylase, Tafazzin, Regulates AML Stemness by Modulating Intracellular Levels of Phospholipids.** Seneviratne AK, Xu M, Aristizabal Henao JJ, Fajardo VA, Hao Z, Voisin V, Xu GW, Hurren R, Kim S, MacLean N, Wang X, Gronda M, Jeyaraju D, Jitkova Y, Ketela T, Mullokandov M, Sharon D, Thomas G, Chouinard-Watkins R, Hawley JR, Schafer C, Yau HL, Khuchua Z, Aman A, Al-Awar R, Gross A, Claypool SM, Bazinet RP, Lupien M, Chan S, De Carvalho DD, Minden MD, Bader GD, Stark KD, LeBlanc P, Schimmer AD. *Cell Stem Cell*. 2019 Jun 6;24(6):1007.

**Mitochondrial ClpP-Mediated Proteolysis Induces Selective Cancer Cell Lethality.** Ishizawa J, Zarabi SF, Davis RE, Halgas O, Nii T, Jitkova Y, Zhao R, St-Germain J, Heese LE, Egan G, Ruvolo VR, Barghout SH, Nishida Y, Hurren R, Ma W, Gronda M, Link T, Wong K, Mabanglo M, Kojima K, Borthakur G, MacLean N, Ma MCJ, Leber AB, Minden MD, Houry W, Kantarjian H, Stogniew M, Raught B, Pai EF, Schimmer AD, Andreeff M. *Cancer Cell*. 2019 May 13;35(5):721-737.e9

**A stemness screen reveals C3orf54/INKA1 as a promoter of human leukemia stem cell latency.** Kaufmann KB, Garcia-Prat L, Liu Q, Ng SWK, Takayanagi SI, Mitchell A, Wienholds E, van Galen P,

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