

Target Symbol	Gene Abnormality	Citation(1)	Link(1)	Citation(2)	Link(2)	Citation(3)	Link(3)
ABL1/2	ABL1/2 gene fusions (BCR-ABL, etc.)	Greuber, E. K., Smith-Pearson, P., Wang, J., & Pendergast, A. M. (2013). Role of ABL family kinases in cancer: From leukaemia to solid tumours. <i>Nature Reviews Cancer</i> , 13(8), 559-571. doi:10.1038/nrc3563	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3935732/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3935732/</a>				
ACVR1	ACVR1	Taylor, K. R., Vinci, M., Bullock, A. N., & Jones, C. (2014). ACVR1 mutations in DIPG: lessons learned from FOP. <i>Cancer Research</i> , 74(17), 4565-4570. doi:10.1158/0008-5472.CAN-14-1298	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4154859/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4154859/</a>	Holla, V. R., Elamin, Y. Y., Bailey, A. M., Johnson, A. M., Litznerburger, B. C., Khotkaya, Y. B., ... Simon, G. R. (2017). ALK: a tyrosine kinase target for cancer therapy. <i>Cold Spring Harbor Molecular Case Studies</i> , 3(1), a001115. doi:10.1101/mcs.a001115	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5171696/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5171696/</a>	Dahiya S, Ennett RJ, Haydon DH, et al. BRAF-V600E mutation in pediatric and adult glioblastoma. <i>Neuro Oncol</i> . 2014;16:318-319.	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3895374/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3895374/</a>
ALK	ALK and ALK gene fusions	Kieran, M. W. (2014). Targeting BRAF in Pediatric Brain Tumors. <i>American Society of Clinical Oncology Educational Book</i> , 34. doi:10.14694/ebook_am.2014.34.e436	<a href="https://meetinglibrary.asco.org/record/99039/ebook/fulltext">https://meetinglibrary.asco.org/record/99039/ebook/fulltext</a>	Iniguez, A. B., Stolte, B., Wang, E. J., Conway, A. S., Alexe, G., Dharia, N. V., ... Stegmaier, K. (2018). EWS/FLI Confers Tumor Cell Synthetic Lethality to CDK12 Inhibition in Ewing Sarcoma. <i>Cancer Cell</i> , 33(2), doi:10.1016/j.ccr.2017.12.009	<a href="https://www.ncbi.nlm.nih.gov/pubmed/29358035">https://www.ncbi.nlm.nih.gov/pubmed/29358035</a>	Butowski, N., Colman, H., Groot, J. F., Omuro, A. M., Nayak, L., Wen, P. Y., ... Prados, M. (2015). Orally administered colony stimulating factor 1 receptor inhibitor PLX3397 in recurrent glioblastoma: An Ivy Foundation Early Phase Clinical Trials Consortium phase II study. <i>Neuro-Oncology</i> , 18(4), 557-564. doi:10.1093/neuroonc/nov024	<a href="https://academic.oup.com/neuro-oncology/article/18/4/557/2509330">https://academic.oup.com/neuro-oncology/article/18/4/557/2509330</a>
CDK12	EWSR1-FLI1	Rovida, E., & Shabura, P. D. (2015). Colony-Stimulating Factor-1 Receptor in the Polarization of Macrophages: A Target for Turning Bad to Good Ones? <i>Journal of Clinical &amp; Cellular Immunology</i> , 06(06). doi:10.4172/2155-9899.1000379	<a href="https://www.omicsonline.org/open-access/cytokine-stimulating-factor-1-receptor-in-the-polarization-of-macrophages-target-for-turning-bad-to-good-ones-2155-9899-1000379.pdf">https://www.omicsonline.org/open-access/cytokine-stimulating-factor-1-receptor-in-the-polarization-of-macrophages-target-for-turning-bad-to-good-ones-2155-9899-1000379.pdf</a>	Shukla, N., Ameur, N., Yilmaz, I., Nafa, K., Lau, C., Marchetti, A., ... Ladanyi, M. (2011). Oncogene Mutation Profiling of Pediatric Solid Tumors Reveals Significant Subsets of Embryonal Rhabdomyosarcoma and Neuroblastoma with Mutated Genes in Growth Signaling Pathways. <i>Clinical Cancer Research</i> , 18(3), 748-757. doi:10.1158/1078-0432.ccr-11-2056	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3271129/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3271129/</a>		
CTNNB1 ( $\beta$ -catenin)	CTNNB1	Eppling, L. B., Grace, C. R., Lowe, B. R., Partridge, J. F., & Enemark, E. J. (2015). Cancer-associated mutants of RNA helicase DDX3X are defective in RNA-stimulated ATP hydrolysis. <i>Journal of Molecular Biology</i> , 427(9), 1779-1796. doi:10.1016/j.jmb.2015.02.015	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4402148/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4402148/</a>	Wong, M., Tee, A., Milazzo, G., Bell, J., Hüttemaijer, S., Polly, P., ... Liu, T. (2017). Abstract LB-080: The histone methyltransferase DOTIL promotes neuroblastoma by regulating gene transcription. <i>Cancer Research</i> , 77(13 Supplement). doi:10.1158/1538-7445.am2017-0432-crr-11-2056	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4633909/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4633909/</a>	Knight, T., & Irving, J. A. (2014). Ras/Raf/MEK/ERK Pathway Activation in Childhood Acute Lymphoblastic Leukemia and Its Therapeutic Targeting. <i>Frontiers in Oncology</i> , 4. doi:10.3389/fonc.2014.00160	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4627711/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4627711/</a>
DDX3X	DDX3X	Tp, T. A. (2015). Targeted Therapy for MAPK Alterations in Pediatric Gliomas. <i>Brain Disorders &amp; Therapy</i> , S2. doi:10.4172/2168-975x.s2-005	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4627711/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4627711/</a>	Gamberi, G., Cochci, S., Benini, S., Magagnoli, G., Morandi, L., Kreshak, J., ... Alberghini, M. (2011). Molecular Diagnosis in Ewing Family Tumors. <i>The Journal of Molecular Diagnostics</i> , 13(3), 313-324. doi:10.1016/j.jmoldx.2011.01.004	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3077725/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3077725/</a>	Chang, C., & Hung, M. (2011). The role of EZH2 in tumor progression. <i>British Journal of Cancer</i> , 106(2), 243-247. doi:10.1038/bjc.2011.551	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4535295/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4535295/</a>
DOTIL	MLL gene fusions	D'Angelio, V., Iannotta, A., Ramaglia, L., Lombardi, A., Zarone, M., R., Desiderio, V., ... Caraglia, M. (2015). EZH2 is increased in paediatric T-cell acute lymphoblastic leukemia and is a suitable molecular target in combination treatment approaches. <i>Journal of Experimental &amp; Clinical Cancer Research</i> , 34(1). doi:10.1186/s13046-015-0191-0	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4633909/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4633909/</a>	Porta, R., Borea, R., Coelho, A., Khan, S., Araújo, A., Reclusa, P., ... Rolfo, C. (2017). FGFR: a promising druggable target in cancer: Molecular biology and new drugs. <i>Critical Reviews in Oncology/Hematology</i> , 113, 256-267. doi:10.1016/j.critrevonc.2017.02.018	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4667550/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4667550/</a>	Levis, M. (2013). FLT3 mutations in acute myeloid leukemia: what is the best approach in 2013? <i>Hematology / the Education Program of the American Society of Hematology. American Society of Hematology. Education Program</i> , 2013, 220-226. doi:10.1182/asheducation-2013.1.220	<a href="http://doi.org/10.1182/asheducation-2013.1.220">http://doi.org/10.1182/asheducation-2013.1.220</a>
ERK	BRAF, MAP2K1	Venneti, S., & Huse, J. T. (2015). The Evolving Molecular Genetics of Low-grade Glioma. <i>Advances in Anatomic Pathology</i> , 22(2), 94-101. doi:10.1097/pap.0000000000000049	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4627711/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4627711/</a>	Frafone, T., Palmisano, M., Nicci, C., & Storti, S. (2012). An overview on the role of FLT3-tyrosine kinase receptor in acute myeloid leukemia: Biology and treatment. <i>Review of Hematology</i> , 6(1), 8. doi:10.4081/oncol.2012.68	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4419636/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4419636/</a>	Porta, R., Borea, R., Coelho, A., Khan, S., Araújo, A., Reclusa, P., ... Rolfo, C. (2017). FGFR: a promising druggable target in cancer: Molecular biology and new drugs. <i>Critical Reviews in Oncology/Hematology</i> , 113, 256-267. doi:10.1016/j.critrevonc.2017.02.018	<a href="http://www.croh-online.com/article/S1040-8428(17)30085-9/fulltext">http://www.croh-online.com/article/S1040-8428(17)30085-9/fulltext</a>
EZH2	SMARCB1, SMARCA4	Yuen, B., & Knoepfle, P. (2013). Histone H3.3 Mutations: A Variant Path to Cancer. <i>Cancer Cell</i> , 24(5), 567-574. doi:10.1016/j.ccr.2013.09.015	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3276746/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3276746/</a>	Kohl, E. A., Gorlick, R., Keir, S. T., Maris, J. M., Lock, R., Carol, H., ... Smith, M. A. (2011). Initial testing (stage 1) by the pediatric preclinical testing program: R04929097, a $\gamma$ -secretase inhibitor targeting notch signaling. <i>Pediatric Blood &amp; Cancer</i> , 58(5), 815-818. doi:10.1002/pbc.23290	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3882088/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3882088/</a>	Levis, M. (2013). FLT3 mutations in acute myeloid leukemia: what is the best approach in 2013? <i>Hematology / the Education Program of the American Society of Hematology. American Society of Hematology. Education Program</i> , 2013, 220-226. doi:10.1182/asheducation-2013.1.220	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4132442/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4132442/</a>
FGFR	FGFR and FGFR gene fusions	Yuen, B., & Knoepfle, P. (2013). Histone H3.3 Mutations: A Variant Path to Cancer. <i>Cancer Cell</i> , 24(5), 567-574. doi:10.1016/j.ccr.2013.09.015	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4667550/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4667550/</a>	Porta, R., Borea, R., Coelho, A., Khan, S., Araújo, A., Reclusa, P., ... Rolfo, C. (2017). FGFR: a promising druggable target in cancer: Molecular biology and new drugs. <i>Critical Reviews in Oncology/Hematology</i> , 113, 256-267. doi:10.1016/j.critrevonc.2017.02.018	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4667550/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4667550/</a>	Levis, M. (2013). FLT3 mutations in acute myeloid leukemia: what is the best approach in 2013? <i>Hematology / the Education Program of the American Society of Hematology. American Society of Hematology. Education Program</i> , 2013, 220-226. doi:10.1182/asheducation-2013.1.220	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4132442/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4132442/</a>
FLT3	FLK2, STK1, CD135	Yuen, B., & Knoepfle, P. (2013). Histone H3.3 Mutations: A Variant Path to Cancer. <i>Cancer Cell</i> , 24(5), 567-574. doi:10.1016/j.ccr.2013.09.015	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4419636/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4419636/</a>	Kohl, E. A., Gorlick, R., Keir, S. T., Maris, J. M., Lock, R., Carol, H., ... Smith, M. A. (2011). Initial testing (stage 1) by the pediatric preclinical testing program: R04929097, a $\gamma$ -secretase inhibitor targeting notch signaling. <i>Pediatric Blood &amp; Cancer</i> , 58(5), 815-818. doi:10.1002/pbc.23290	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3882088/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3882088/</a>	Linze, J. R., Marini, B., McFadden, K., Lorenzana, A., Mody, R., Robertson, P. L., & Koschmann, C. (2017). Identification and targeting of an FGFR fusion in a pediatric thalamic "central oligodendroglioma". <i>Npj Precision Oncology</i> , 1(1). doi:10.1038/s41698-017-0036-8	<a href="https://www.nature.com/articles/s41698-017-0036-8">https://www.nature.com/articles/s41698-017-0036-8</a>
Gamma secretase	NOTCH1 and FBXW7	Yuen, B., & Knoepfle, P. (2013). Histone H3.3 Mutations: A Variant Path to Cancer. <i>Cancer Cell</i> , 24(5), 567-574. doi:10.1016/j.ccr.2013.09.015	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3276746/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3276746/</a>	Yuen, B., & Knoepfle, P. (2013). Histone H3.3 Mutations: A Variant Path to Cancer. <i>Cancer Cell</i> , 24(5), 567-574. doi:10.1016/j.ccr.2013.09.015	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3882088/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3882088/</a>		
Histone 3 G34R/V	Histone 3 G34R/V	Yuen, B., & Knoepfle, P. (2013). Histone H3.3 Mutations: A Variant Path to Cancer. <i>Cancer Cell</i> , 24(5), 567-574. doi:10.1016/j.ccr.2013.09.015	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3882088/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3882088/</a>	Yuen, B., & Knoepfle, P. (2013). Histone H3.3 Mutations: A Variant Path to Cancer. <i>Cancer Cell</i> , 24(5), 567-574. doi:10.1016/j.ccr.2013.09.015	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3882088/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3882088/</a>		
Histone 3 K27M	Histone 3 K27M	Yang, H., Ye, D., Guan, K., & Xiong, Y. (2012). IDH1 and IDH2 Mutations in Tumorigenesis: Mechanistic Insights and Clinical Perspectives. <i>Clinical Cancer Research</i> , 18(20), 5562-5571. doi:10.1182/1078-0432.ccr-12-1773	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3882088/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3882088/</a>	Yang, H., Ye, D., Guan, K., & Xiong, Y. (2012). IDH1 and IDH2 Mutations in Tumorigenesis: Mechanistic Insights and Clinical Perspectives. <i>Clinical Cancer Research</i> , 18(20), 5562-5571. doi:10.1182/1078-0432.ccr-12-1773	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3897211/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3897211/</a>		
IDH1 and IDH2	IDH1 and IDH2	Yang, H., Ye, D., Guan, K., & Xiong, Y. (2012). IDH1 and IDH2 Mutations in Tumorigenesis: Mechanistic Insights and Clinical Perspectives. <i>Clinical Cancer Research</i> , 18(20), 5562-5571. doi:10.1182/1078-0432.ccr-12-1773	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3897211/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3897211/</a>	Yang, H., Ye, D., Guan, K., & Xiong, Y. (2012). IDH1 and IDH2 Mutations in Tumorigenesis: Mechanistic Insights and Clinical Perspectives. <i>Clinical Cancer Research</i> , 18(20), 5562-5571. doi:10.1182/1078-0432.ccr-12-1773	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3897211/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3897211/</a>		
JAK1, 2, and 3	JAK1, 2, and 3	Yang, H., Ye, D., Guan, K., & Xiong, Y. (2012). IDH1 and IDH2 Mutations in Tumorigenesis: Mechanistic Insights and Clinical Perspectives. <i>Clinical Cancer Research</i> , 18(20), 5562-5571. doi:10.1182/1078-0432.ccr-12-1773	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3897211/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3897211/</a>	Yang, H., Ye, D., Guan, K., & Xiong, Y. (2012). IDH1 and IDH2 Mutations in Tumorigenesis: Mechanistic Insights and Clinical Perspectives. <i>Clinical Cancer Research</i> , 18(20), 5562-5571. doi:10.1182/1078-0432.ccr-12-1773	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3897211/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3897211/</a>		

		Barone, G., Tweddle, D., Shohet, J., Chesler, L., Moreno, L., Pearson, A., & Maerken, T. (2014). MDM2-p53 Interaction in Paediatric Solid Tumors: Preliminary Rationale, Biomarkers and Resistance. <i>Current Drug Targets</i> , 15(1), 114-123. doi:10.2174/1389450113149990194	Goethem, A. V., Yigit, N., Moreno-Smith, M., Vasudevan, S., A., Barbieri, E., Spelman, F., . . . Maerken, T. V. (2017). Dual targeting of MDM2 and BCL2 as a therapeutic strategy in neuroblastoma. <i>Oncotarget</i> , 8(34). doi:10.18632/oncotarget.18982
MDM2	MDM2, TP53	Ciccarelli, C., Vulcano, F., Mitazzo, L., Gravina, G. L., Mararoni, F., Macioce, G., . . . Zani, B. M. (2016). Key role of MEK/ERK pathway in sustaining tumorigenicity and in vitro radiosensitivity of embryonal rhabdomyosarcoma stem-like cell population. <i>Molecular Cancer</i> , 15(1). doi:10.1186/s12943-016-0501-y	<a href="https://www.ncbi.nlm.nih.gov/pubmed/24387312">https://www.ncbi.nlm.nih.gov/pubmed/24387312</a>
MEK	BRAF and BRAF gene fusions, MAP2K1, NF1	Slyany, R. K. (2016). The molecular mechanics of mixed lineage leukemias. <i>Oncogene</i> , 35(40), 5215-5223. doi:10.1038/onc.2016.30	<a href="https://molecular.biomedcentral.com/articles/10.1186/s12943-016-0501-y">https://molecular.biomedcentral.com/articles/10.1186/s12943-016-0501-y</a>
Menin	MLL gene fusions	Bouffet, E. (2007). Faculty of 1000 evaluation for Phase 2 study of temozolamide in children and adolescents with recurrent central nervous system tumors: A report from the Childrens Oncology Group. <i>F1000 - Post-publication Peer Review of the Biomedical Literature</i> . doi:10.3410/l.1098180.554184	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2704309/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2704309/</a>
MET	MET	Winters, A. C., & Bernt, K. M. (2017). <i>MET-Rearranged Leukemias—An Update on Science and Clinical Approaches</i> . <i>Frontiers in Pediatrics</i> , 5, doi:10.3389/fped.2017.00004	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5299633/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5299633/</a>
MLL	MLL gene fusions	Barrett, D., Brown, V. I., Grupp, S. A., & Teachey, D. T. (2012). Targeting the PI3K/AKT/mTOR Signaling Axis in Children with Hematologic Malignancies. <i>Pediatric Drugs</i> , 14(5), 299-316. doi:10.1007/bf03262236	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4214862/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4214862/</a>
mTOR	TSC1, TSC2	Hutter, S., Bolin, S., Weishaupt, H., & Schwartling, F. (2017). Modeling and Targeting MYC Genes in Childhood Brain Tumors. <i>Genes</i> , 8(4), 107. doi:10.3390/gene8040107	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/</a>
MYC	MYC translocations and amplification	Sala, A. (2015). Editorial: Targeting MYCN in Pediatric Cancers. <i>Frontiers in Oncology</i> , 4, doi:10.3389/fonc.2014.00330	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4429566/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4429566/</a>
MYCN	MYCN amplification	Schumacher, T. N., & Schreiber, R. D. (2015). Neonantigens in cancer immunotherapy. <i>Science</i> , 348(6230), 69-74.	<a href="https://science.sciencemag.org/content/348/6230/69/tah-pdf">https://science.sciencemag.org/content/348/6230/69/tah-pdf</a>
Neoantigens	MSH2, MLH1, MSH6, PMS2 POLE, and POLD1	Cahill, K. E., Moshref, R. A., & Yamini, B. (2015). Nuclear factor-kB in glioblastoma: Insights into regulators and targeted therapy. <i>Neuro-Oncology</i> , 18(3), 329-339. doi:10.1093/neuro/nov265	<a href="https://academic.oup.com/neuro-oncology/article/18/3/329/250937">https://academic.oup.com/neuro-oncology/article/18/3/329/250937</a>
NFKappaB	RELA fusion	Zage, P. E., Nolo, R., Fang, W., Stewart, J., Garcia-Manero, G., & Zeidler-McKay, P. A. (2011). Notch pathway activation induces neuroblastoma tumor cell growth arrest. <i>Pediatric Blood &amp; Cancer</i> , 55(5), 682-689. doi:10.1002/pbc.23202	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/</a>
NOTCH1	NOTCH1, FBXW7	Meyer, J. A., Wang, L. E., Yang, J. J., Dandekar, S., Patel, J. P., . . . Carroll, W. L. (2013). Relapse specific mutations in NTSC2 in childhood acute lymphoblastic leukemia. <i>Nature Genetics</i> , 45(3), 290-294. doi:10.1038/ng.2558	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/</a>
NTSC2	NTSC2	Prasad, M. L., Vyas, M., Horne, M. J., Virk, R. K., Morotti, R., Liu, Z., . . . Nikiforov, Y. E. (2016). NTRKfusion oncogenes in pediatric papillary thyroid carcinoma in northeast United States. <i>Cancer</i> , 122(7), 1097-1107. doi:10.1002/cncr.29887	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/</a>
NTRK	NTRK gene fusions	Linardic, C. M. (2008). PAX3-FOXO1 fusion gene in rhabdomyosarcoma. <i>Cancer Letters</i> , 270(1), 10-18. doi:10.1016/j.canlet.2008.03.035	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/</a>
PAX-FOXO1	PAX-FOXO1	Heldin, C. (2013). Targeting the PDGF signaling pathway in tumor treatment. <i>Cell Communication and Signaling</i> , 11(1), 97. doi:10.1186/1478-811x-11-97	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/</a>
PDGFRA/B	PDGFRA/B gene fusions	Khan, K. H., Yap, T. A., Yan, L., & Cunningham, D. (2013). Targeting the PI3K-AKT-mTOR signaling network in cancer. <i>Chinese Journal of Cancer</i> , 32(5), 253-265. doi:10.5732/cjc.013.10057	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/</a>
PI3Kα	PIK3CA	Milosevic, J., Eissler, N., Treis, D., Wickstrom, M., Fransson, S., Sveinbjornsson, B., . . . Kognor, P. (2017). Abstract 1945: PPM1D/Wip1, promising new target in childhood cancers neuroblastoma and medulloblastoma. <i>Cancer Research</i> , 77(13 Supplement), 1945-1945. doi:10.1158/1538-7445.am2017-1945	<a href="http://cancerres.aacrjournals.org/content/77/13_Supplement/1945">http://cancerres.aacrjournals.org/content/77/13_Supplement/1945</a>
PPM1D (WIP1)	PPM1D (WIP1)	Ward, A. F., Braun, B. S., & Shannon, K. M. (2012). Targeting oncogenic Ras signaling in hematologic malignancies. <i>Blood</i> , 120(17), 3397-3406. doi:10.1182/blood-2012-05-378596	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/</a>
RAS	RAS	Levy, A. S., Roth, M., Patterson, N., Scott, E., Quispe-Tintaya, W., Ewart, M. R., . . . Montagna, C. (2016). Abstract 15: Target next sequencing profiling of pediatric solid tumors: Potential use for the identification of actionable mutations. <i>Cancer Research</i> , 22(1 Supplement), 15-15. doi:10.1158/1538-3265.pmcshengen15-15	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/</a>
RET	RET	Liu, X., Zheng, H., Li, X., Wang, S., Meyerson, H. J., Yang, W., . . . Qiu, C.-K. (2016). Gain-of-function mutations of Ptpn11 (Shp2) cause aberrant mitosis and increase susceptibility to DNA damage-induced malignancies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 113(4), 984-989. doi:10.1073/pnas.1508535113	<a href="http://clincancerres.aacrjournals.org/content/22/1_Supplement/15">http://clincancerres.aacrjournals.org/content/22/1_Supplement/15</a>
SHP2	SHP2	Rimkus, T., Carpenter, R., Qasem, S., Chan, M., & Lo, H. (2016). Targeting the Sonic Hedgehog Signaling Pathway: Review of Smoothened and GLI Inhibitors. <i>Cancers</i> , 8(2), 22. doi:10.3390/cancers8020022	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/</a>
Smoothened	PATCH1, SMO	Stegmaier, S., Leuschner, I., Poremba, C., Ladenstein, R., Kazanowska, B., Ljungman, G., . . . Koscielniak, E. (2016). The prognostic impact of SYT-SSX fusion type and histological grade in pediatric patients with synovial sarcoma treated according to the CWS (Cooperative Weichteilsarkom Studie) trials. <i>Pediatric Blood &amp; Cancer</i> , 64(1), 89-95. doi:10.1002/pbc.26206	<a href="http://www.mdpi.com/2072-6694/8/2/22">http://www.mdpi.com/2072-6694/8/2/22</a>
SYT-SSX	SYT-SSX	Dupain, C., Hartrampf, A. C., Urbinati, G., Geerger, B., & Massaad-Massade, L. (2017). Relevance of Fusion Genes in Pediatric Cancers: Toward Precision Medicine. <i>Molecular Therapy - Nucleic Acids</i> , 6, 315-326. doi:10.1016/j.omtn.2017.01.005	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/</a>
		Goethem, A. V., Yigit, N., Moreno-Smith, M., Vasudevan, S., A., Barbieri, E., Spelman, F., . . . Maerken, T. V. (2017). Dual targeting of MDM2 and BCL2 as a therapeutic strategy in neuroblastoma. <i>Oncotarget</i> , 8(34). doi:10.18632/oncotarget.18982	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/</a>
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		<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMS406854/</a>

TP53

TP53

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AKR1C3	Liu, C., Hsu, Y., Pan, P., Wu, M., Ho, C., Su, L., . . . Christiani, D. C. (2008). Maternal and offspring genetic variants of AKR1C3 and the risk of childhood leukemia. <i>Carcinogenesis</i> , 29(5), 984-990. doi:10.1093/carcin/bgn071	<a href="http://citesearc1st.psu.edu/viewdo/c/download?doi=10.1158/2963&amp;rep=rep1&amp;type=pdf">http://citesearc1st.psu.edu/viewdo/c/download?doi=10.1158/2963&amp;rep=rep1&amp;type=pdf</a>	Uckun, F., & D. (2013). Novel Bruton's tyrosine kinase inhibitors currently in development. <i>Oncotargets and Therapy</i> , 161. doi:10.2147/ott.s33732	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3594038/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3594038/</a>
BTK	Azad, V. F., Asl, A. A., Tashvighi, M., Mofrad, N. N., Haghghi, M., & Mehrvar, A. (2015). CD7 aberrant expression led to a lineage switch in relapsed childhood acute pre-B lymphoblastic leukemia. <i>Medical Molecular Morphology</i> , 49(1), 53-56. doi:10.1007/s00795-015-017-0	<a href="https://www.ncbi.nlm.nih.gov/pubmed/26242204">https://www.ncbi.nlm.nih.gov/pubmed/26242204</a>	Shalabi, H., Angiolillo, A., & Fry, T. J. (2015). Beyond CD19: Opportunities for Future Development of Targeted Immunotherapy in Pediatric Relapsed-Refractory Acute Leukemia. <i>Frontiers in Pediatrics</i> , 3, 80. doi: <a href="http://doi.org/10.3389/fped.2015.00080">http://doi.org/10.3389/fped.2015.00080</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4589648/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4589648/</a>
CD7	Dworzak, M. N., Schumich, A., Printz, D., Pötschger, U., Husak, Z., Attarbaschi, A., . . . Gaderer, H. (2008). CD20 up-regulation in pediatric B-cell precursor acute lymphoblastic leukemia during induction treatment: setting the stage for anti-CD20 directed immunotherapy. <i>Blood</i> , 112(10), 3982-3988. doi: <a href="http://doi.org/10.1182/blood-2008-06-164129">http://doi.org/10.1182/blood-2008-06-164129</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2581996/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2581996/</a>	Sun, W., Gaynon, P. S., Sposto, R., & Wayne, A. S. (2015). Improving Access To Novel Agents For Childhood Leukemia. <i>Cancer</i> , 121(12), 1927-1938. doi: <a href="http://doi.org/10.1002/cncr.29267">http://doi.org/10.1002/cncr.29267</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4457598/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4457598/</a>
CD19	Nagpal, P., Akl, M. R., Ayoub, N. M., Tomiyama, T., Cousins, T., Tai, B., . . . Sub, K. S. (2016). Pediatric Hodgkin lymphoma-biomarkers, drugs, and clinical trials for translational science and medicine. <i>Oncotarget</i> , 7(41), 67551-67573. doi: <a href="http://doi.org/10.18633/oncotarget.11509">http://doi.org/10.18633/oncotarget.11509</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5341896/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5341896/</a>	O'Hear, C., Heiber, J. F., Schubert, I., Fey, G., & Geiger, T. L. (2015). Anti-CD35 chimeric antigen receptor targeting of acute myeloid leukemia. <i>Haematologica</i> , 100(3), 336-344. doi: <a href="http://doi.org/10.3324/haematol.2014.112748">http://doi.org/10.3324/haematol.2014.112748</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4349272/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4349272/</a>
CD20	De Winde, C. M., Veenbergen, S., Young, K. H., Xu-Monetet, Z. Y., Wang, X., Xia, Y., . . . van Spriel, A. B. (2016). Tetraspanin CD37 protects against the development of B cell lymphoma. <i>The Journal of Clinical Investigation</i> , 126(2), 653-666. doi: <a href="http://doi.org/10.1172/JCI81041">http://doi.org/10.1172/JCI81041</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4731177/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4731177/</a>	Jiang, Z., Wu, D., Lin, S., & Li, P. (2016). CD34 and CD38 are prognostic biomarkers for acute B lymphoblastic leukemia. <i>Biomarker Research</i> , 4, 23. doi: <a href="http://doi.org/10.1186/s40364-016-0080-5">http://doi.org/10.1186/s40364-016-0080-5</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5159997/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5159997/</a>
CD22	Aref, S., Azmy, E., El-Bakry, K., Ibrahim, L., & Mabed, M. (2017). Prognostic impact of CD200 and CD56 expression in adult acute lymphoblastic leukemia patients. <i>Hematology</i> , 1-8. doi:10.1080/10245332.2017.1404276	<a href="https://www.ncbi.nlm.nih.gov/pubmed/29144828">https://www.ncbi.nlm.nih.gov/pubmed/29144828</a>	Shaffer, D. R., Savoldo, B., Yi, Z., Chow, K. K. H., Kakarla, S., Spencer, D. M., . . . Gottschalk, S. (2011). T cells redirected against CD70 for the immunotherapy of CD70-positive malignancies. <i>Blood</i> , 117(16), 4304-4314. doi: <a href="http://doi.org/10.1182/blood-2010-04-278218">http://doi.org/10.1182/blood-2010-04-278218</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3087480/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3087480/</a>
CD37	Gordon, M. S., Kato, R. M., Lansigan, F., Thompson, A. A., Wall, R., & Rawlings, D. J. (2000). Aberrant B cell receptor signaling from B29 (Igfb, CD79b) gene mutations of chronic lymphocytic leukemia B cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 97(10), 5504-5509.	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC258585/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC258585/</a>	Neff, J., & Chen, D. (2017). Pediatric Philadelphia-positive B lymphoblastic leukemia with CD56 expression and L2 morphology: Case report and review of the literature. <i>Human Pathology: Case Reports</i> , 8, 9-12. doi:10.1016/j.ehpc.2016.12.002	<a href="https://www.sciencedirect.com/science/article/pii/S2214330016300803">https://www.sciencedirect.com/science/article/pii/S2214330016300803</a>
CD38	Testa, U., Pelosi, E., & Frankel, A. (2014). CD 123 is a membrane biomarker and a therapeutic target in hematologic malignancies. <i>Biomarker Research</i> , 2, 4. doi: <a href="http://doi.org/10.1186/2050-7771-2-4">http://doi.org/10.1186/2050-7771-2-4</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3928610/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3928610/</a>	Zhou, Z., Luther, N., Ibrahim, G. M., Hawkins, C., Vibhakar, R., Handler, M. H., & Souweidane, M. M. (2015). BT-H3, a potential therapeutic target, is expressed in diffuse intrinsic pontine glioma. <i>Journal of Neuro-Oncology</i> , 111(3), 257-264. doi: <a href="http://doi.org/10.1007/s11060-012-1021-2">http://doi.org/10.1007/s11060-012-1021-2</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4700828/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4700828/</a>
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GPC2	Orentas, R. J., Lee, D. W., & Mackall, C. (2012). Immunotherapy Targets in Pediatric Cancer. <i>Frontiers in Oncology</i> , 2, 3. doi: <a href="http://doi.org/10.3389/fonc.2012.00003">http://doi.org/10.3389/fonc.2012.00003</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3355840/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3355840/</a>	GPC3	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC26305408/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC26305408/</a>
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IL6	Deng, H., Zeng, J., Zhang, T., Gong, L., Zhang, H., Cheung, E., . . . Li, G. (2018). Histone H3.3K27M Mobilizes Multiple Cancer/Testis (CT) Antigens in Pediatric Glioma. <i>Molecular Cancer Research</i> , 16(4), 623-633. doi:10.1158/1541-7786.mcr-17-0460	<a href="http://mcr.acrjournals.org/content/16/4/623.full.pdf">http://mcr.acrjournals.org/content/16/4/623.full.pdf</a>	IL13RA2	<a href="http://mcr.acrjournals.org/content/16/4/623.full.pdf">http://mcr.acrjournals.org/content/16/4/623.full.pdf</a>
IL13RA2	Gilbertson, R. J. (2005). ERBB2 in Pediatric Cancer: Innocent Until Proven Guilty. <i>The Oncologist</i> , 10(7), 508-517. doi:10.1634/theoncologist.10-7-508	<a href="http://theoncologist.alphamedpress.org/content/10/7/508.full">http://theoncologist.alphamedpress.org/content/10/7/508.full</a>	IL13RA2	<a href="http://theoncologist.alphamedpress.org/content/10/7/508.full">http://theoncologist.alphamedpress.org/content/10/7/508.full</a>

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PRAME	Cain, C. (2012). SYKing inhibitors on retinoblastoma. <i>Science-Business Exchange</i> , 5(7). doi:10.1038/scibx.2012.168	<a href="https://www.nature.com/scibx/journal/v5/n7/full/scibx_2012_168.html">https://www.nature.com/scibx/journal/v5/n7/full/scibx_2012_168.html</a>
SYK	Noronna, S. A., Farrar, J. E., Alonso, T. A., Gerbing, R. B., Lacayo, N. J., Dahl, G. V., ... Loeb, D. M. (2009). WT1 expression at diagnosis does not predict survival in pediatric AML: A report from the Children's Oncology Group. <i>Pediatric Blood &amp; Cancer</i> , 53(6), 1136–1139.	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2926132/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2926132/</a>
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	Capitini CM, Mackall CL, Wayne AS. Immune-based Therapeutics for Pediatric Cancer. <i>Expert opinion on biological therapy</i> . 2010;10(2):163-178. doi:10.1517/14712590903431022.	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2809805/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2809805/</a>	Birley, K., Chester, K., & Anderson, J. (2018). Antibody based therapy for childhood solid cancers. <i>Current Opinion in Chemical Engineering</i> , 19, 153-162. doi:10.1016/j.coche.2018.01.005	<a href="https://www.sciencedirect.com/science/article/pii/S221139817300503">https://www.sciencedirect.com/science/article/pii/S221139817300503</a>
GM-CSF	Folgiero, V., Goffredo, B. M., Filippini, P., Masetti, R., Bonanno, G., Caruso, R., . . . Rutella, S. (2013). Indoleamine 2,3-dioxygenase 1 (IDO1) activity in leukemia blasts correlates with poor outcome in childhood acute myeloid leukemia. <i>Oncotarget</i> , 5(8). doi:10.18632/oncotarget.1504	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4039144/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4039144/</a>	Reuter, D., Staegge, M. S., Kühnöl, C. D., & Föll, J. (2015). Immunostimulation by OX40 Ligand Transgenic Ewing Sarcoma Cells. <i>Frontiers in Oncology</i> , 5, 242. <a href="http://doi.org/10.3389/fonc.2015.00242">http://doi.org/10.3389/fonc.2015.00242</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4621427/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4621427/</a>
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IFN-gamma	Williams, K. M., Grant, M., Ismail, M., Hoq, F., Martin-Manso, M., Hoover, J., . . . Bolland, C. (2017). Complete remissions post infusion of multiple tumor antigen specific T cells for the treatment of high risk leukemia and lymphoma patients after HCT. <i>Cytotherapy</i> , 19(5). doi:10.1016/j.jcyt.2017.03.013	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5182072/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5182072/</a>	Lemos, H., Mohamed, E., Huang, L., Ou, R., Pacholczyk, G., Arbab, A. S., . . . Mellor, A. L. (2016). STING promotes the growth of tumors characterized by low antigenicity via IDO activation. <i>Cancer Research</i> , 76(8), 2076-2081. <a href="http://doi.org/10.1158/0008-5472.CAN-15-1456">http://doi.org/10.1158/0008-5472.CAN-15-1456</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4873329/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4873329/</a>
IL-2				
LAG3				
OX40				
PD-1/PD-L1				
RIG-I				
TIM3/TIM4				
STING				

Target Symbol	Citation(1)	Link(1)	Citation(2)	Link(2)
AURKA (Aurora kinase A)	Wetmore C, Boyett J, Li S, et al. Alisertib is active as single agent in recurrent atypical teratoid rhabdoid tumors in 4 children. <i>Neuro-Oncology</i> . 2015;17(6):882-888. doi:10.1093/neuonc/nov017.	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4483126/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4483126/</a>		
AURKB (Aurora kinase B)	Bavetsias, V., & Linardopoulos, S. (2015). Aurora Kinase Inhibitors: Current Status and Outlook. <i>Frontiers in Oncology</i> , 5, 278. http://doi.org/10.3389/fonc.2015.00027	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4685048/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4685048/</a>		
AXL	Huey, M. G., Minson, K. A., Earp, H. S., DeRyckere, D., & Graham, D. K. (2016). Targeting the TAM Receptors in Leukemia. <i>Cancers</i> , 8(11), 101. http://doi.org/10.3390/cancers8110101	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5126761/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5126761/</a>		
ATM	Takagi, M., Yoshida, M., Nemoto, Y., Tamaichi, H., Tsujiida, R., Seki, M., . . . Takita, J. (2017). Loss of DNA Damage Response in Neuroblastoma and Utility of a PARP Inhibitor. <i>JNCI: Journal of the National Cancer Institute</i> , 109(11). doi:10.1093/jnci/djx062	<a href="https://academic.oup.com/jnci/article/109/11/djx062/4096548">https://academic.oup.com/jnci/article/109/11/djx062/4096548</a>		
ATR	Weber, A. M., & Ryan, A. J. (2015). ATM and ATR as therapeutic targets in cancer. <i>Pharmacology &amp; Therapeutics</i> , 149, 124-138. doi:10.1016/j.pharmthera.2014.12.001	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC483126/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC483126/</a>		
BCL2 family members (Bcl-2, Bcl-XL, Mcl-1, A1/BFL, BAK, BAX)	Chaber, R., Fiszer-Maliszewska, L., Noworolska-Sauren, D., Kwasnicka, J., Wrobel, G., & Chybicka, A. (2013). The BCL-2 Protein in Precursor B Acute Lymphoblastic Leukemia in Children. <i>Journal of Pediatric Hematology/Oncology</i> , 35(3), 180-187. doi:10.1097/mpb.0b013e318286d29b	<a href="https://www.ncbi.nlm.nih.gov/pubmed/23511489">https://www.ncbi.nlm.nih.gov/pubmed/23511489</a>		
BET bromodomain family	Wadhwa E, Nicolaides T (May 21, 2016) Bromodomain Inhibitor Review: Bromodomain and Extra-terminal Family Protein Inhibitors as a Potential New Therapy in Central Nervous System Tumors. <i>Cureus</i> 8(5): e620. doi:10.7759/cureus.620	<a href="https://www.ncbi.nlm.nih.gov/pubmed/27382528">https://www.ncbi.nlm.nih.gov/pubmed/27382528</a>	Hensel, T., Giorgi, C., Schmidt, O., Calzada-Wack, J., Neff, F., Buch, T., . . . Richter, G. H. (2015). Targeting the EWS-ETS transcriptional program by BET bromodomain inhibition in Ewing sarcoma. <i>Oncotarget</i> , 7(2). doi:10.18632/oncotarget.6385	<a href="https://mediatum.ub.tum.de/doc/1398856/1398856.pdf">https://mediatum.ub.tum.de/doc/1398856/1398856.pdf</a>
CDK4/6	Hamilton, E., & Infante, J. R. (2016). Targeting CDK4/6 in patients with cancer. <i>Cancer Treatment Reviews</i> , 45, 129-138. doi:10.1016/j.ctrv.2016.03.002	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC483126/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC483126/</a>		
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CDK7	Chua, M. J., Ortega, C. E., Sheikh, A., Lee, M., Abdul-Rassoul, H., Hartshorn, K. L., & Dominguez, I. (2017). CK2 in Cancer: Cellular and Biochemical Mechanisms and Potential Therapeutic Target. <i>Pharmaceuticals</i> , 10(1), 18. http://doi.org/10.3390/ph10010018	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5689588/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5689588/</a>	Buontempo, F., McCubrey, J. A., Orsini, E., Ruzzene, M., Cappellini, A., Lonetti, A., . . . Martelli, A. M. (2017). Therapeutic targeting of CK2 in acute and chronic leukemias. <i>Leukemia</i> , 32(1), 1-10. doi:10.1038/leu.2017.301	<a href="https://www.nature.com/articles/leu2017301">https://www.nature.com/articles/leu2017301</a>
CDK9	Bobola, M. S. (2005). 06-Methylguanine-DNA Methyltransferase, 06-Benzylguanine, and Resistance to Clinical Alkytators in Pediatric Primary Brain Tumor Cell Lines. <i>Clinical Cancer Research</i> , 11(7), 2747-2755. doi:10.1158/1078-0432.ccr-04-2045	<a href="https://www.ncbi.nlm.nih.gov/pubmed/15814657">https://www.ncbi.nlm.nih.gov/pubmed/15814657</a>	Becher, O. J., Peterson, K. M., Khatau, S., Santi, M. R., & MacDonald, T. J. (2008). IGFBP2 is Overexpressed by Pediatric Malignant Astrocytomas and Induces the Repair Enzyme DNA-PK. <i>Journal of Child Neurology</i> , 23(10), 1205-1213. http://doi.org/10.1177/0883073808321766	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3674842/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3674842/</a>
CK2 (casein kinase 2)	Dolman, M. E. M., van der Ploeg, I., Koster, J., Bate-Eya, L. T., Versteeg, R., Caron, H. N., & Molenaar, J. J. (2015). DNA-Dependent Protein Kinase A Molecular Target for Radiosensitization of Neuroblastoma Cells. <i>PLoS ONE</i> , 10(12), e0145744. http://doi.org/10.1371/journal.pone.0145744	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4696738/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4696738/</a>		
DNA (alkylators)	Diede, S. J., Guenther, J., Geng, L. N., Mahoney, S. E., Marotta, M., Olson, J. M., . . . Tapscoff, S. J. (2009). DNA methylation of developmental genes in pediatric medulloblastomas identified by denaturation analysis of methylation differences. <i>Proceedings of the National Academy of Sciences</i> , 107(1), 234-239. doi:10.1073/pnas.0907606106	<a href="http://www.pnas.org/content/pnas/early/2009/11/30/0907606106.full.pdf">http://www.pnas.org/content/pnas/early/2009/11/30/0907606106.full.pdf</a>		
DNMT (DNA methyl transferase)	Orentas, R. J., Lee, D. W., & Mackall, C. (2012). Immunotherapy Targets in Pediatric Cancer. <i>Frontiers in Oncology</i> , 2, 3. http://doi.org/10.3389/fonc.2012.00003	<a href="http://www.pnas.org/content/pnas/early/2009/11/30/0907606106.full.pdf">http://www.pnas.org/content/pnas/early/2009/11/30/0907606106.full.pdf</a>		
FAK	Hu, Y., Gu, X., Li, R., Luo, Q., & Xu, Y. (2010). Glycogen synthase kinase-3β inhibition induces nuclear factor-κB-mediated apoptosis in pediatric acute lymphocytic leukemia cells. <i>Journal of Experimental &amp; Clinical Cancer Research : CR</i> , 29(1), 154. http://doi.org/10.1186/1756-9966-29-154	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3355840/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3355840/</a>	Mills, C. N., Nowsheen, S., Bonner, J. A., & Yang, E. S. (2011). Emerging Roles of Glycogen Synthase Kinase 3 in the Treatment of Brain Tumors. <i>Frontiers in Molecular Neuroscience</i> , 4, 47. http://doi.org/10.3389/fnmol.2011.00047	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC323722/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC323722/</a>
FOLR1 (folate receptor 1)	West, A. C., & Johnstone, R. W. (2014). New and emerging HDAC inhibitors for cancer treatment. <i>The Journal of Clinical Investigation</i> , 124(1), 30-39. http://doi.org/10.1172/JCI69738	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3871231/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3871231/</a>		
GSK-3				
HDAC				

	Cruzeiro, G. A., Reis, M. B., Silveira, V. S., Lira, R. C., Jr, C. G., Neder, L., ... Valera, E. T. (2018). HIF1A is Overexpressed in Medulloblastoma and its Inhibition Reduces Proliferation and Increases EPAS1 and ATG16L1 Methylation. <i>Current Cancer Drug Targets</i> , 18(3), 287-294. doi:10.2174/1568009617666170315162525	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2830203/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2830203/</a>
HIF1A	Ahmed, A. A., Mohamed, A. D., Gener, M., Li, W., & Taboada, E. (2017). YAP and the Hippo pathway in pediatric cancer. <i>Molecular &amp; Cellular Oncology</i> , 4(3), e1295127. <a href="http://doi.org/10.1080/23723556.2017.1295127">http://doi.org/10.1080/23723556.2017.1295127</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5462521/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5462521/</a>
Hippo pathway (YAP, TAZ, TEADs)	Li, W., Tsen, F., Sahu, D., Bhatia, A., Chen, M., Multhoff, G., & Woodley, D. T. (2013). Extracellular Hsp90 (eHsp90) as the Actual Target in Clinical Trials: Intentionally or Unintentionally. <i>International Review of Cell and Molecular Biology</i> , 303, 203-235. <a href="http://doi.org/10.1016/B978-0-12-407697-6.00005-2">http://doi.org/10.1016/B978-0-12-407697-6.00005-2</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4023563/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4023563/</a>
Hsp90	Tyner, J. W., Jemal, A. M., Thayer, M., Druker, B. J., & Chang, B. H. (2012). Targeting survivin and p53 in pediatric acute lymphoblastic leukemia. <i>Leukemia</i> , 26(4), 623-632. <a href="http://doi.org/10.1038/leu.2011.249">http://doi.org/10.1038/leu.2011.249</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3364442/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3364442/</a>
IAPs (inhibitor-of-apoptosis)	Theisen, E. R., Pishas, K. I., Saund, R. S., & Lessnick, S. L. (2016). Therapeutic opportunities in Ewing sarcoma: EWS-FLI inhibition via LSD1 targeting. <i>Oncotarget</i> , 7(14), 17616-17630. <a href="http://doi.org/10.1863/oncotarget.7124">http://doi.org/10.1863/oncotarget.7124</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4951237/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4951237/</a>
LSD1	Noble, R. A., Bell, N., Blair, H., Sikka, A., Thomas, H., Phillips, N., ... Wedge, S. R. (2017). Inhibition of monocarboxylate transporter 1 by AZD3965 as a novel therapeutic approach for diffuse large B-cell lymphoma and Burkitt lymphoma. <i>Haematologica</i> , 102(7), 1247-1257. <a href="http://doi.org/10.3324/haematol.2016.163030">http://doi.org/10.3324/haematol.2016.163030</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5566036/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5566036/</a>
MCT1 (monocarboxylate transporter 1)	Saletta, F., Wadham, C., Ziegler, D. S., Marshall, G. M., Haber, M., McCowage, G., ... Byrne, J. A. (2014). Molecular profiling of childhood cancer: Biomarkers and novel therapies. <i>BBA Clinical</i> , 1, 59-77. doi:10.1016/j.bbaccl.2014.06.003	<a href="https://www.sciencedirect.com/science/article/pii/S2214647414000105">https://www.sciencedirect.com/science/article/pii/S2214647414000105</a>
MGMT	Heske, C. M., Davis, M. L., Baumgart, J. T., Wilson, K., Gormally, M. V., Chen, L., ... Thomas, C. J. (2017). Matrix Screen Identifies Synergistic Combination of PARP Inhibitors and Nicotinamide Phosphoribosyltransferase (NAMPT) Inhibitors in Ewing Sarcoma. <i>Clinical Cancer Research</i> , 23(23), 7301-7311. doi:10.1158/1078-0432.CCR-17-1121	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5889971/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5889971/</a>
NAMPT	Bhatia, S., Pavlick, A. C., Boasberg, P., Thompson, J. A., Mulligan, G., Pickard, M. D., ... Hamid, O. (2016). A phase I study of the investigational NEDD8-activating enzyme inhibitor pevonedistat (TAK-924/MLN4942) in patients with metastatic melanoma. <i>Investigational New Drugs</i> , 34, 439-449. <a href="http://doi.org/10.1007/s10637-016-0348-5">http://doi.org/10.1007/s10637-016-0348-5</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4919369/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4919369/</a>
NEDD8 activating enzyme (NAE)	Ricks, T. K., Chiu, H.-J., Ison, G., Kim, G., McKee, A. E., Kluetz, P., & Pazdur, R. (2015). Successes and Challenges of PARP Inhibitors in Cancer Therapy. <i>Frontiers in Oncology</i> , 5, 222. <a href="http://doi.org/10.3389/fonc.2015.00222">http://doi.org/10.3389/fonc.2015.00222</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4604313/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4604313/</a>
PARP	Velpula, K. K., Guda, M. R., Sahu, K., Tuszenski, J., Asuthkar, S., Bach, S. E., ... Tsung, A. J. (2017). Metabolite targeting of EGFRVIII/PDK1 axis in temozolamide resistant glioblastoma. <i>Oncotarget</i> , 8(22), 35639-35655. <a href="http://doi.org/10.1863/oncotarget.16767">http://doi.org/10.1863/oncotarget.16767</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5482605/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5482605/</a>
PDK-1 (3-phosphoinositide-dependent protein kinase 1)	Padi, S. K. R., Luevano, L. A., An, N., Pandey, R., Singh, N., Song, J. H., ... Kraft, A. S. (2017). Targeting the PIM protein kinases for the treatment of a T-cell acute lymphoblastic leukemia subset. <i>Oncotarget</i> , 8(18), 30199-30216. <a href="http://doi.org/10.1863/oncotarget.16320">http://doi.org/10.1863/oncotarget.16320</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5444737/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5444737/</a>
PIM1	Huang, S. Y., & Yang, J.-Y. (2015). Targeting the Hedgehog Pathway in Pediatric Medulloblastoma. <i>Cancers</i> , 7(4), 2110-2123. <a href="http://doi.org/10.3390/cancers7040880">http://doi.org/10.3390/cancers7040880</a>	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4695880/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4695880/</a>
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Topoisomerase I/II	Kopp, L. M., & Katsanis, E. (2015). Targeted immunotherapy for pediatric solid tumors. <i>OncolImmunology</i> , 5(3). doi:10.1080/2162402X.2015.1087637
TRAIL	Stanton, R. A., Gernert, K. M., Nettles, J. H., & Aneja, R. (2011). Drugs That Target Dynamic Microtubules: A New Molecular Perspective. <i>Medicina Research Reviews</i> , 31(3), 443–481. <a href="http://doi.org/10.1002/med.20242">http://doi.org/10.1002/med.20242</a>
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	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC15809708/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC15809708/</a>
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	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3922515/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3922515/</a>

Target Symbol	Citation(1)	Link(1)	Citation(2)	Link(2)
AR	Sun, J., Wang, D., Guo, L., Fang, S., Wang, Y., & Xing, R. (2017). Androgen Receptor Regulates the Growth of Neuroblastoma Cells in vitro and in vivo. <i>Frontiers in Neuroscience</i> , 11, 116. http://doi.org/10.3389/fnins.2017.00116	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5339338/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5339338/</a>		
ESR1	Lovén, J., Zinin, N., Wahlström, T., Müller, I., Brodin, P., Fredlund, E., ... Henriksson, M. (2010). MYCN-regulated microRNAs repress estrogen receptor $\alpha$ (ESR1) expression and neuronal differentiation in human neuroblastoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 107(4), 1553–1558. http://doi.org/10.1073/pnas.0913517107	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2824410/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2824410/</a>		
ESR2	Ashton, K., Proietto, A., Orton, G., Symonds, I., McEvoy, M., Attia, J., ... Scott, R. (2009). Estrogen receptor polymorphisms and the risk of endometrial cancer. <i>BJOG: An International Journal of Obstetrics &amp; Gynaecology</i> , 116(8), 1053–1061. doi:10.1111/j.1471-0528.2009.02185.x	<a href="https://obgyn.onlinelibrary.wiley.com/doi/full/10.1111/j.1471-0528.2009.02185.x">https://obgyn.onlinelibrary.wiley.com/doi/full/10.1111/j.1471-0528.2009.02185.x</a>		
GnRHR	Glade Bender, J., Yamashiro, D. J., & Fox, E. (2011). Clinical Development of VEGF Signaling Pathway Inhibitors in Childhood Solid Tumors. <i>The Oncologist</i> , 16(11), 1614–1625. http://doi.org/10.1634/theoncologist.2011-0148	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3233297/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3233297/</a>		
VEGFR	Kieran, M. W., Kalluri, R., & Cho, Y.-J. (2012). The VEGF Pathway in Cancer and Disease: Responses, Resistance, and the Path Forward. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2(12), a006593. http://doi.org/10.1101/cshperspect.a006593	<a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3543971/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3543971/</a>		