

Table S1: Abbreviations of relevant proteins

Abbreviation	Full name	Classification	Comment	References
ALKBH5	alpha-ketoglutarate-dependent dioxygenase alkB homolog 5	RNA N ⁶ -methyladenosine demethylase	ALKBH5 is involved in various biological processes including proliferation and plays an emerging role in carcinogenesis.	[1–3]
ASH1L	absent small and homeotic disks protein 1 homolog	histone-lysine N-methyltransferase	ASH1L catalyzes H3K36 methylation, is involved in HOX gene regulation and cooperates with MLL.	[4–8]
AXL	AXL Receptor Tyrosine Kinase	Tyro3-Axl-Mer (TAM) receptor tyrosine kinase	AXL stimulates PI3K/AKT/mTOR signaling and is constitutively active in AML.	[2,9–11]
BCL2	B-cell lymphoma 2 protein	Bcl2 protein / apoptosis regulator protein	BCL2 is an anti-apoptotic protein.	[12,13]
BCL2L11 (BIM)	Bcl-2-like protein 11	Bcl2 protein / apoptosis regulator protein	BCL2L11 (BIM) is a pro-apoptotic protein.	[12–14]
BRG1 (SMARCA4)	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 4	SWI/SNF (SWItch/Sucrose Non-Fermentable) family member	BRG1 (SMARCA4) is a member of the BAF family of ATP-dependent chromatin-remodeling complexes and mentioned as PRC2 antagonist.	[15,16]
CCND2	cyclin D2	cyclin protein	CCND2 is involved in cell cycle G1/S transition.	[17]
CDKN1A (p21)	cyclin-dependent kinase inhibitor 1	cyclin-dependent kinase inhibitor protein	CDKN1A (p21) is a p53 target and mediates cell cycle arrest.	[18–20]
CDX2	homeobox protein CDX-2	homeodomain-containing transcription factor	CDX2 is involved in AML transformation.	[21,22]
CEBPA	CCAAT/enhancer-binding protein alpha	basic leucine zipper (bZIP) transcription factor	CEBPA is essential for myeloid lineage commitment.	[23]
CEBPB	CCAAT/enhancer-binding protein beta	basic leucine zipper (bZIP) transcription factor	CEBPB is essential for macrophage differentiation and involved in immune as well as in inflammatory responses.	[24–26]
DOCK5/8	dedicator of cytokinesis 5/8 proteins	guanine nucleotide exchange factors	DOCK5 and DOCK8 are involved in cancer cell survival through Ras-mediated activation of the Rac pathway.	[27, 28]
EGR1	early growth response protein 1	zinc finger (ZF) transcription factor	EGR1 acts context dependent as tumor suppressor or oncogene and is widely seen as tumor suppressor in AML.	[29]
ENT1	equilibrative nucleoside transporter 1	drug influx transporter	ENT1 is involved in the cellular uptake of nucleosides and its analogues.	[30]
EZH2	enhancer of zeste homolog 2	histone-lysine N-methyltransferase enzyme	EZH2 is a tumor suppressor in AML/MDS.	[31–33]
GATA1	GATA-binding factor 1	GATA transcription factor	GATA1 is essential for erythroid and megakaryocytic differentiation.	[34–36]
HOXA9	homeobox protein Hox-A9	homeodomain-containing transcription factor	HOXA9 is commonly dysregulated in acute leukemias and involved in leukemic transformation. It interacts with MEIS1.	[37,38]
HOXA10	homeobox protein Hox-A10	homeodomain-containing transcription factor	HOXA10 is mentioned as PRC2 antagonist.	[15]
HP1	heterochromatin protein 1	heterochromatin protein 1 family	HP1 proteins are involved in heterochromatin formation.	[39–41]
ID1	DNA-binding protein inhibitor ID-1	helix-loop-helix (HLH) protein	ID1 interacts with and inhibits HLH transcription factors.	[42]
IL3RA	Interleukin 3 receptor, alpha	interleukin receptor	IL3RA is a subunit of the heterodimeric IL3 receptor.	[43,44]

IL6	interleukin 6	interleukin	IL6 is a proinflammatory cytokine. It is involved in proliferation and differentiation of hematopoietic stem and progenitor cells (HSPCs).	[45–48]
IRF	interferon regulatory factors	interferon regulatory transcription factor (IRF) family	IRF proteins are essential for transcriptional regulation of type I IFN genes.	[49,50]
JAK2	janus kinase 2	non-receptor tyrosine kinase	JAK2 ^{V617F} is the most frequent mutation in MPN patients.	[51]
JUN-AP1	activator protein 1	heterodimeric basic leucine zipper (bZIP) transcription factor	The oncoprotein JUN-AP is highly expressed in AML patients and involved in AML cell growth as well as proliferation.	[52–55]
KRAS	Kirsten rat sarcoma virus protein	GTPase	The oncoprotein KRAS mediates signal transduction of growth factors. Gain-of-function mutations occur in various cancers including leukemias.	[56–59]
LAPTM4B	lysosomal-associated transmembrane protein 4B	lysosome-associated protein transmembrane (LAPTM) family	LAPTM4B is required for lysosomal organization and involved in chemotherapy resistance. It predicts poor prognosis in AML.	[60–62]
LEDGF	lens Epithelium Derived Growth Factor	epigenetic reader protein	LEDGF associates with MLL-fusions and is required for MLL-rearranged leukemogenesis.	[4,63–67]
LEO1	RNA polymerase-associated protein LEO1	member of the polymerase-associated factor 1 (PAF1) complex	As member of the PAF1 complex LEO1 is involved in leukemogenesis through association with MLL-fusions.	[68–70]
LMO2	LIM domain only 2 protein	LIM-domain-only (LMO) protein	LMO2 regulates transcription as scaffolding protein and is involved in erythroid differentiation through complex building with GATA1.	[71–73]
LSD1	lysine-specific histone demethylase 1A	histone demethylase	LSD1 demethylates H3K4me ¹⁺² and H3K9me ¹⁺² and is often deregulated in AML.	[74–76]
MCL1	myeloid cell leukemia-1 protein	Bcl2 protein / apoptosis regulator protein	MCL1 is an anti-apoptotic protein.	[13,77]
MEIS1	homeobox protein Meis1	homeodomain-containing transcription factor	MEIS1 is involved in megakaryocytic lineage development and often dysregulated in acute leukemias. It interacts with HOXA9.	[37,78,79]
MLL1	mixed-lineage leukemia 1 protein	histone-lysine N-methyltransferase	MLL1 methylates H3K4 and is involved in Hox gene regulation. Oncogenic fusions with other proteins often occur in acute leukemias.	[80–82]
MOZ	monocytic leukemia zinc finger protein	histone acetyltransferase (HAT)	MOZ regulates RUNX1 expression and contributes to leukemogenesis as fusion with TIF2.	[83,84]
MYC	myelocytomatosis protein	basic helix-loop-helix (bHLH) transcription factor	MYC promotes cell growth and proliferation. It is a known proto-oncogene in many human cancers.	[85]
NFE2	nuclear factor, erythroid-derived 2	heterodimeric basic leucine zipper (bZIP) transcription factor	NFE2 is involved in megakaryocytic lineage development and deregulated in most MPN patients.	[86,87]
MEIS1	homeobox protein Meis1	homeodomain-containing transcription factor	MEIS1 is involved in megakaryocytic lineage development and often dysregulated in acute leukemias. It interacts with HOXA9.	[88–92]
NGF	nerve growth factor	neurotrophin growth factor	NGF mediates survival, growth and proliferation through TRKA binding.	[93,94]
NOM1	nucleolar protein with MIF4G domain 1	MIF4G/MA3 domain-containing protein	NOM1 interacts with translation initiating proteins.	[95,96]

NSG2	neuron-specific gene 2 protein	neuron-specific gene family of small, single-pass transmembrane proteins	NSG2 is involved in vesicle trafficking and neural differentiation. It has been shown to impair HSC differentiation.	[97–100]
NUP98	nuclear pore complex protein Nup98-Nup96	nuclear pore complex protein	NUP98 contributes to nuclear-cytoplasmic trafficking and is often rearranged in acute leukemias.	[101–103]
p15(INK4b)	cyclin-dependent kinase 4 inhibitor B	cyclin-dependent kinase inhibitor protein	p15(INK4b) acts as a tumor suppressor.	[104–106]
PAF1	RNA polymerase II-associated factor 1 homolog	component of the polymerase-associated factor 1 (PAF1) complex	PAF1 is essential for transcriptional elongation.	[69,107,108]
PML	promyelocytic leukemia protein (PML)	tripartite motif (TRIM) protein family	The PML/RAR α fusion mediates the differentiation block in most APL patients.	[109–112]
PRL-3	protein of regenerating liver-3	prenylated protein tyrosine phosphatase	The physiological role of PRL-3 remains unclear. It is involved in metastasis and frequently overexpressed in AML patients.	[113,114]
RAR α	retinoic acid receptor alpha	nuclear receptor	RAR α mediates retinoid signaling. The PML/RAR α fusion mediates the differentiation block in most APL patients.	[111,115]
RUNX1	runt-related transcription factor 1	runt-domain transcription factor	RUNX1 is required for HSPC homeostasis and expansion. The RUNX1/RUNX1T1 fusion often occurs in AML patients.	[116,117]
RUNX1T1	RUNX1 Partner Transcriptional Co-Repressor 1	zinc finger (ZF) transcription factor	RUNX1T1 mediates transcriptional repression. The RUNX1/RUNX1T1 fusion often occurs in AML patients.	[118–121]
S100A8/9	S100 calcium-binding protein A8/9	S100 protein family	S100A8 and S100A9 form the heterodimer calprotectin that is part of the innate immune system. Calprotectin is highly expressed in granulocytes, involved in inflammation and critical for blocking differentiation in leukemic cells.	[122–125]
SCL	stem cell leukemia protein	basic helix-loop-helix (bHLH) transcription factor	SCL is required for HSC development and also involved in terminal maturation of selected blood cells. It is often dysregulated in leukemias.	[126–128]
SPI1/PU.1	SFFV proviral integration site-1 (Spi-1) / purine rich Box-1 protein	erythroblast transformation specific (ETS) domain transcription factor	SPI1/PU.1 is involved in myeloid and B-cell differentiation. It is a known target of RUNX1 target. SPI1/PU.1 suppression is critical in leukemic transformation.	[129–131]
STAT1/2	signal transducer and activator of transcription 1/2	STAT transcription factors	STAT1/2 is involved in cytokine and growth factor signaling. It is dysregulated in various malignancies including cancer.	[132,133]
TAF1B	TATA box-binding protein-associated factor RNA polymerase I subunit B	TATA-binding protein (TBP) associated factor (TAFs)	TAF1B is required for initiation of transcription by RNA polymerase I.	[134–136]
TIF2	transcriptional mediators/intermediary factor 2	member of the p160 nuclear receptor transcriptional coactivator family (NRCoAs)	TIF2 contributes to leukemogenesis as fusion with MOZ.	[83]
TRKA	tropomyosin receptor kinase A	neurotrophic tyrosine kinase receptor	TRKA is a high affinity receptor for NGF and activates Ras/MAPK and PI3K/Akt signaling.	[93,137]

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