Report coriandR

Koch V.

13 November, 2020

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## [1] "Patient 119706.3p"
```

unique_reads	4965944
average_length	145.406
unique_mapped_reads	9737542
patient ID	119706.3p
gender	M

Karyotype:

add(1)(p36.31p21.3)

del(1)(q42.13q42.13)

del(10)(q22.1q22.1)

add(10)(q23.33q23.33)

del(10)(q26.11q26.11)

add(11)(p15.4p11.12)

add(11)(q11q25)

del(12)(p13.33p13.33)

add(12)(p11.21p11.21)

del(12)(q23.3q23.3)

del(12)(q24.31q24.31)

del(12)(q24.33q24.33)

del(13)(q11q11)

add(13)(q22.3q22.3)

add(13)(q33.2q33.2)

add(14)(q21.2q21.2)

del(14)(q32.13q32.13)

del(14)(q32.31q32.33)

del(15)(q12q25.1)

del(16)(p13.3p13.3)

add(16)(p13.11p12.3)

del(16)(q22.1q22.1)

del(16)(q24.2q24.3)

del(17)(p13.3p11.1)

del(17)(q11.2q22)

del(17)(q25.3q25.3)

add(18)(q12.2q12.2)

del(18)(q23q23)

del(19)(p13.3p13.2)

del(19)(p13.11p13.11)

del(19)(q13.11q13.11)

del(19)(q13.2q13.2)

del(19)(q13.32q13.33)

del(19)(q13.42q13.42)

add(2)(p16.3p16.3)

add(2)(p16.1p16.1)

add(2)(q24.1q24.1)

add(2)(q24.3q24.3)

add(2)(q31.3q31.3)

del(2)(q37.1q37.1)

del(2)(q37.3q37.3)

del(20)(p13p13)

add(20)(p12.1p12.1)

del(20)(q13.13q13.13)

del(20)(q13.33q13.33)

add(21)(q22.12q22.12)

del(21)(q22.3q22.3)

del(22)(q11.21q11.21)

del(22)(q12.2q12.2)

del(22)(q13.1q13.33)

del(3)(p26.2p26.2)

del(3)(p25.2p25.2)

add(3)(p24.3p24.3)

add(3)(q13.13q13.2)

add(3)(q21.1q21.1)

del(4)(p16.3p16.3)

del(4)(p16.1p16.1)

del(5)(p15.33p15.33)

del(5)(q14.3q34)

del(5)(q35.2q35.3)

del(6)(p11.2p11.1)

add(6)(q15q16.1)

add(6)(q22.1q22.1)

add(6)(q22.31q22.31)

add(6)(q25.2q25.2)

del(7)(p22.3p22.1)

add(7)(p12.2p12.2)

del(7)(q22.1q36.3)

del(8)(p23.3p23.3)

add(8)(q21.13q21.13)

del(8)(q24.3q24.3)

add(9)(p21.2p21.2)

del(9)(p13.2p13.2)

del(9)(q33.3q33.3)

del(9)(q34.12q34.3)

add(X)(p22.33q28)

del(Y)(p11.31q12)

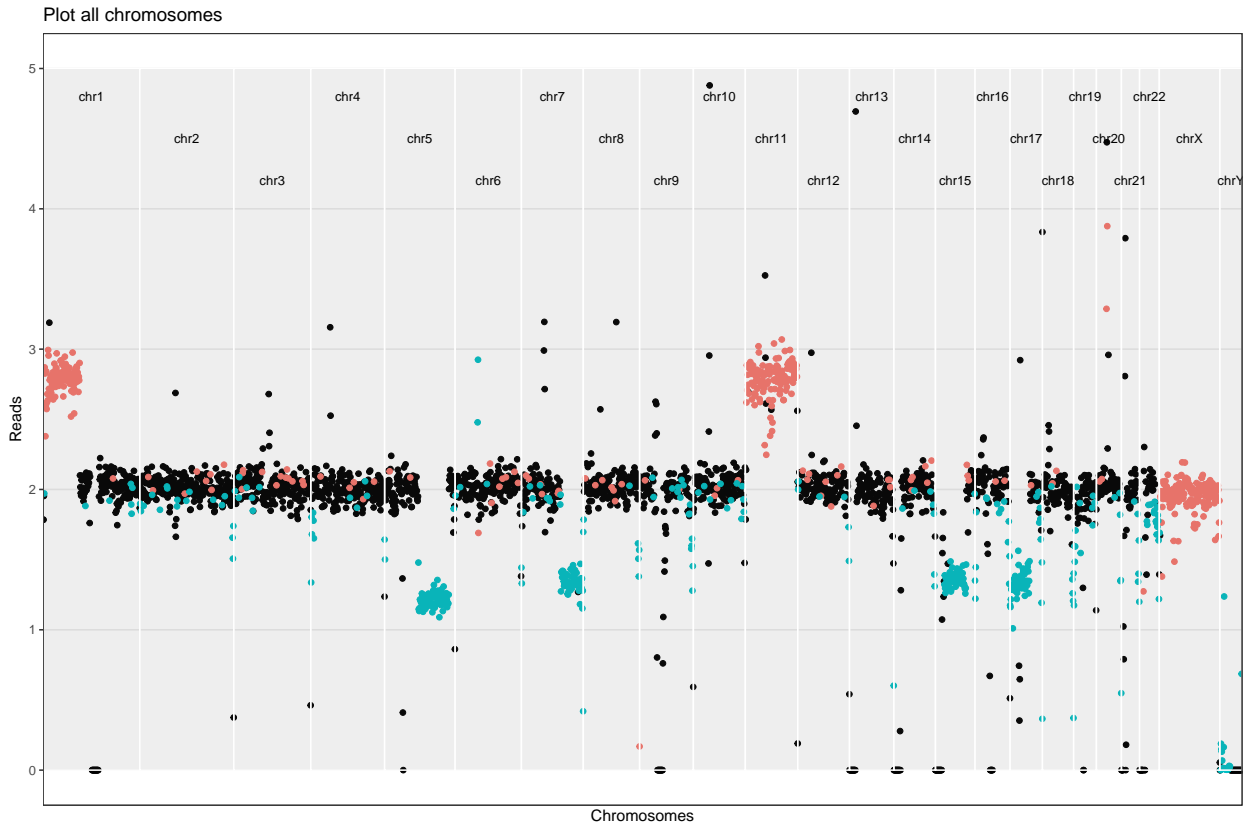## Genes from AMl Guidline 2016 or cancer driver genes paper:

id	symbol	chr	start	end	aberration
237	ENSG00000116251	RPL22	chr1	6185020	6209389	amp
381	ENSG00000198793	MTOR	chr1	11106535	11262507	amp
882	ENSG00000117713	ARID1A	chr1	26693236	26782104	amp
1176	ENSG00000054118	THRAP3	chr1	36224432	36305357	amp
1201	ENSG00000163874	ZC3H12A	chr1	37474580	37484377	amp
1258	ENSG00000127603	MACF1	chr1	39081316	39487177	amp
1397	ENSG00000117400	MPL	chr1	43337849	43352772	amp
1604	ENSG00000123080	CDKN2C	chr1	50960745	50974634	amp
1891	ENSG00000162434	JAK1	chr1	64833229	64966549	amp
2077	ENSG00000162613	FUBP1	chr1	77944055	77979110	amp
2298	ENSG00000122406	RPL5	chr1	92832013	92841924	amp
4895	ENSG00000163041	H3F3A	chr1	226061851	226072007	del
6626	ENSG00000169564	PCBP1	chr2	70087454	70089203	del
8082	ENSG00000121989	ACVR2A	chr2	147844517	147930826	amp
8662	ENSG00000064933	PMS1	chr2	189784085	189877629	del
9038	ENSG00000178568	ERBB4	chr2	211375717	212538841	del
9614	ENSG00000130294	KIF1A	chr2	240713761	240821036	del
10405	ENSG00000181555	SETD2	chr3	47016429	47163967	del
10504	ENSG00000067560	RHOA	chr3	49359145	49412998	del
11444	ENSG00000051341	POLQ	chr3	121431427	121546641	amp
12374	ENSG00000177565	TBL1XR1	chr3	177019340	177228000	amp
12922	ENSG00000068078	FGFR3	chr4	1793293	1808872	del
15551	ENSG00000164362	TERT	chr5	1253147	1295047	del

id	sym	bol chr	sta	rt end	abe	rration
16825	ENSG00000145715	RASA1	chr5	87267888	87391931	del
17123	ENSG00000134982	APC	chr5	112707498	112846239	del
17886	ENSG00000182578	CSF1R	chr5	150053291	150113372	del
17889	ENSG00000113721	PDGFRB	chr5	150113839	150155872	del
18076	ENSG00000145863	GABRA6	chr5	161547063	161702593	del
18512	ENSG00000164379	FOXQ1	chr6	1312098	1314758	del
21587	ENSG00000164853	UNCX	chr7	1232872	1237326	del
21681	ENSG00000122512	PMS2	chr7	5970925	6009106	del
23552	ENSG00000105851	PIK3CG	chr7	106865278	106908980	del
23659	ENSG00000105976	MET	chr7	116672196	116798386	del
23865	ENSG00000128602	SMO	chr7	129188633	129213545	del
24082	ENSG00000157764	BRAF	chr7	140719327	140924928	del
24217	ENSG00000197993	KEL	chr7	142941114	142962363	del
24328	ENSG00000055130	CUL1	chr7	148697914	148801110	del
24329	ENSG00000106462	EZH2	chr7	148807383	148884321	del
24436	ENSG00000106615	RHEB	chr7	151466012	151520120	del
24449	ENSG00000055609	KMT2C	chr7	152134922	152436005	del
30060	ENSG00000196092	PAX5	chr9	36833269	37034268	del
31516	ENSG00000097007	ABL1	chr9	130713946	130887675	del
31611	ENSG00000186350	RXRA	chr9	134317098	134440585	del
31616	ENSG00000130635	COL5A1	chr9	134641774	134844843	del
31674	ENSG00000148400	NOTCH1	chr9	136494433	136546048	del
32366	ENSG00000133818	RRAS2	chr11	14277922	14364506	amp
32621	ENSG00000184937	WT1	chr11	32387775	32435885	amp
33142	ENSG00000198561	CTNND1	chr11	57753243	57819546	amp
33487	ENSG00000168066	SF1	chr11	64764606	64778786	amp
33490	ENSG00000133895	MEN1	chr11	64803510	64811294	amp
33764	ENSG00000110092	CCND1	chr11	69641087	69654474	amp
33855	ENSG00000165458	INPPL1	chr11	72223701	72239147	amp
34405	ENSG00000082175	PGR	chr11	101029624	101130524	amp
34521	ENSG00000149311	ATM	chr11	108222484	108369102	amp
34754	ENSG00000118058	KMT2A	chr11	118436464	118526832	amp
35859	ENSG00000165731	RET	chr10	43077069	43130351	del
36150	ENSG00000150347	ARID5B	chr10	61901684	62096944	amp
36640	ENSG00000171862	PTEN	chr10	87863625	87971930	del
37122	ENSG00000148737	TCF7L2	chr10	112950247	113167678	del
37379	ENSG00000170430	MGMT	chr10	129467190	129770983	del
38141	ENSG00000133703	KRAS	chr12	25204789	25250936	amp
38922	ENSG00000065361	ERBB3	chr12	56076799	56103505	del
39959	ENSG00000179295	PTPN11	chr12	112418351	112509913	amp
40154	ENSG00000135100	HNF1A	chr12	120978543	121002512	del
40502	ENSG00000177084	POLE	chr12	132623753	132687365	del
42295	ENSG00000129474	AJUBA	chr14	22971177	22982551	del
43977	ENSG00000142208	AKT1	chr14	104769349	104795751	del
44899	ENSG00000174197	MGA	chr15	41621224	41773081	del
45011	ENSG00000166710	B2M	chr15	44711487	44718877	del
45273	ENSG00000140262	TCF12	chr15	56918623	57299281	del
45320	ENSG00000157450	RNF111	chr15	58865175	59097419	del
45508	ENSG00000169032	MAP2K1	chr15	66386817	66492312	del
45751	ENSG00000169375	SIN3A	chr15	75369379	75455842	del
46467	ENSG00000103126	AXIN1	chr16	287440	352723	del
46622	ENSG00000103197	TSC2	chr16	2047967	2089491	del

id	symbol	chr	start	end	aberration
46775	ENSG00000005339	CREBBP	chr16	3725054	3880726	del
48288	ENSG00000067955	CBFB	chr16	67028984	67101058	del
48327	ENSG00000102974	CTCF	chr16	67562467	67639177	del
49313	ENSG00000132522	GPS2	chr17	7311324	7315564	del
49360	ENSG00000141510	TP53	chr17	7661779	7687550	del
49370	ENSG00000170004	CHD3	chr17	7884806	7912760	del
49491	ENSG00000065559	MAP2K4	chr17	12020829	12143830	del
49580	ENSG00000141027	NCOR1	chr17	16029157	16218185	del
50158	ENSG00000196712	NF1	chr17	31094927	31382116	del
50479	ENSG00000167258	CDK12	chr17	39461486	39564907	del
50489	ENSG00000141736	ERBB2	chr17	39687914	39730426	del
50518	ENSG00000131759	RARA	chr17	40309180	40357643	del
50539	ENSG00000213424	KRT222	chr17	40654665	40665181	del
50718	ENSG00000012048	BRCA1	chr17	43044295	43170245	del
50883	ENSG00000120071	KANSL1	chr17	46029916	46225389	del
51040	ENSG00000121067	SPOP	chr17	49598884	49678163	del
51550	ENSG00000108946	PRKAR1A	chr17	68511780	68551319	del
52042	ENSG00000141579	ZNF750	chr17	82829434	82840022	del
54791	ENSG00000099821	POLRMT	chr19	617221	633537	del
54831	ENSG00000118046	STK11	chr19	1177558	1228435	del
54850	ENSG00000071626	DAZAP1	chr19	1407569	1435687	del
54949	ENSG00000088256	GNA11	chr19	3094362	3123999	del
54995	ENSG00000167658	EEF2	chr19	3976056	3985463	del
55002	ENSG00000060566	CREB3L3	chr19	4153631	4173054	del
55762	ENSG00000105647	PIK3R2	chr19	18153163	18170532	del
56943	ENSG00000105464	GRIN2D	chr19	48394875	48444931	del
58538	ENSG00000099949	LZTR1	chr22	20982269	20999032	del
58779	ENSG00000099956	SMARCB1	chr22	23786931	23838008	del
58970	ENSG00000186575	NF2	chr22	29603556	29698598	del
59615	ENSG00000196576	PLXNB2	chr22	50274979	50307646	del
60367	ENSG00000160201	U2AF1	chr21	43092956	43107587	del
247031	ENSG00000205542	TMSB4X	chrX	12975110	12977227	amp
248091	ENSG00000173674	EIF1AX	chrX	20124525	20141838	amp
248131	ENSG00000177189	RPS6KA3	chrX	20149911	20267519	amp
249381	ENSG00000198947	DMD	chrX	31097677	33339441	amp
250291	ENSG00000183337	BCOR	chrX	40049815	40177329	amp
250501	ENSG00000124486	USP9X	chrX	41085445	41236579	amp
250551	ENSG00000215301	DDX3X	chrX	41333284	41364472	amp
251001	ENSG00000147050	KDM6A	chrX	44873177	45112602	amp
251431	ENSG00000182872	RBM10	chrX	47145221	47186813	amp
251601	ENSG00000078061	ARAF	chrX	47561100	47571920	amp
253891	ENSG00000126012	KDM5C	chrX	53191321	53225422	amp
253981	ENSG00000072501	SMC1A	chrX	53374149	53422728	amp
254051	ENSG00000086758	HUWE1	chrX	53532096	53686728	amp
254971	ENSG00000184675	AMER1	chrX	64185117	64205708	amp
255391	ENSG00000169083	AR	chrX	67544021	67730619	amp
256071	ENSG00000184634	MED12	chrX	71118556	71142454	amp
256111	ENSG00000147130	ZMYM3	chrX	71239624	71255146	amp
256161	ENSG00000147133	TAF1	chrX	71366239	71532374	amp
257591	ENSG00000085224	ATRX	chrX	77504878	77786233	amp
259151	ENSG00000147202	DIAPH2	chrX	96684663	97604997	amp
262571	ENSG00000174460	ZCCHC12	chrX	118823824	118826968	amp

id	sym	bol chr	sta	rt end	abe	rration
263741	ENSG00000101972	STAG2	chrX	123960212	124422664	amp
264151	ENSG00000102038	SMARCA1	chrX	129446501	129523500	amp
265031	ENSG00000156531	PHF6	chrX	134373253	134428791	amp
268991	ENSG00000196924	FLNA	chrX	154348524	154374638	amp

All genome:

All chromosomes:

Plot patient vs PON with 3*SD

chr1

Plot patient vs PON with 3*SD

chr2

Plot patient vs PON with 3*SD

chr3

Plot patient vs PON with 3*SD
chr4

Plot patient vs PON with 3*SD
chr5

Plot patient vs PON with 3*SD
chr6

Plot patient vs PON with 3*SD
chr7

Plot patient vs PON with 3*SD
chr8

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chr9

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chr10

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chr11

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chr12

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chr13

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chr14

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chr15

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chr16

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chr17

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chr18

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chr19

Plot patient vs PON with 3*SD
chr20

Plot patient vs PON with 3*SD
chr21

Plot patient vs PON with 3*SD
chr22

Plot patient vs PON with 3*SD
chrX

Plot patient vs PON with 3*SD
chrY